

ThinkPad® Laptops

U.S.

Product Specifications Reference

PSREF

Version 485, February 2016

ThinkPad® Laptops

Including:

- L Series
- T Series
- W Series
- P Series
- X Series
- E Series

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Summary of Changes

This section describes the technical changes made in this edition.

This edition might also include minor corrections and editorial changes which are not identified.

February 24, 2016 - Version 485

Additions in this update

▶ **New product(s)**

ThinkPad T460s models announced February 2016

ThinkPad 11e (3rd Gen) models announced February 2016

ThinkPad X1 Carbon (4th Gen) models announced February 2016

▶ **New model(s)**

ThinkPad L460 new models announced February 2016

ThinkPad L560 new models announced February 2016

▶ **Others**

None

Changes in this update

▶ **None**

Withdrawals in this update

▶ **Withdrawn product(s)**

None



Lenovo® ThinkPad L440



Lenovo ThinkPad L440



Lenovo ThinkPad L440



Lenovo ThinkPad L440



Lenovo ThinkPad L440

ThinkPad L440 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | |
|--------------------------------|--|------------------|-----------------|------------------|---------------------|-------|--------------|---|---|
| Positioning | Mainstream value performance; two spindles | | | | | | | WLAN ⁴ | <p>One of the following, configurable by model:</p> <ul style="list-style-type: none"> ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Centrino[®] Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card |
| Processor | Intel [®] Celeron [®] Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | | | <p>WWAN (optional) One of the following, configurable by model (mutually exclusive with M.2 SSD):</p> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm[®] Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson[®] N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | Processor Graphics |
| | Cel 2950M | 2 | 4 | 2 GHz | - | 2MB | DDR3L-1600 | | Intel HD Graphics |
| | i3-4000M | | | 2.4 GHz | - | 3MB | | | Intel HD Graphics 4600 |
| | i3-4100M | | | 2.5 GHz | - | 3MB | | | |
| | i5-4200M | | | 2.5 GHz | 3.1 GHz | 3MB | | | |
| | i5-4210M | | | 2.6 GHz | 3.2 GHz | 3MB | | | |
| | i5-4300M | | | 2.6 GHz | 3.3 GHz | 3MB | | | |
| | i5-4330M | | | 2.8 GHz | 3.5 GHz | 3MB | | | |
| | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | | | | | |
| | i7-4702MQ | 4 | 8 | 2.2 GHz | 3.2 GHz | 6MB | | | |
| | i7-4712MQ | | | 2.3 GHz | 3.3 GHz | 6MB | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | SIM card (optional) | <p>One of the following, configurable by model:</p> <ul style="list-style-type: none"> AT&T[®] or Verizon[®] LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | Bluetooth™ Ethernet | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) |
| M.2 SSD | | | | | | | | Security Security chip | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | vPro (optional) | Intel vPro Technology |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor |
| Graphics | Intel HD Graphics 4600 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports dual independent display; Max resolution: 3840x2160@30Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) |
| Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys TrackPoint [®] pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | Preload | Windows [®] 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Cloud Storage by SugarSync PC Device Stage Microsoft[®] Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) Cyberlink PowerDVD Cyberlink Power2Go Cyberlink PowerProducer |
| ThinkLight™ | None | | | | | | | | Some: Windows 8 / 8.1 64-bit Some: Windows 8 / 8.1 Pro 64-bit Some: Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee[®] LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) |
| Dimensions ³ | 14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm | | | | | | | | |
| Weight ² | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | |
| | Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | |
| Max battery life ¹⁰ | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | |
| | Win7 (MobileMark [®] 2007) | 10 hr | 11 hr | 21 hr | | | | | |
| | Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | |
| AC adapter | 65-watt AC adapter | | | | | | | | |
| Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | Mil-Spec test | MIL-STD-810G military certification |
| ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR [®] 6.0; RoHS-compliant |
| Smart card reader | Optional: Smart card reader | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | |
| Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | |
| Audio support | HD Audio, Realtek [®] ALC3232 codec, Dolby [®] Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | |

ThinkPad L440 20AT (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|---------|---------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AT0042US | Cel 2950M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | EM7355 | Select | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 03/14 |
| 20AT0043US | Cel 2950M | No | HD 4600 | HM86 | 2GBx1 | 14" HD | 500G 7200 | 11b/g/n+BT | EM7355 | Select | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 03/14 |
| 20AT001YUS | i3-4000M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AT0020US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AT0021US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AT002AUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20AT002MUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20AT002NUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20AT002SUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20AT002XUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20AT0027US | i7-4702MQ | No | HD 4600 | HM86 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AT0028US | i7-4702MQ | No | HD 4600 | HM86 | 4GBx1 | 14" HD+ | 1T 5400 | 7260 ac+BT | 16GB | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AT0029US | i7-4702MQ | No | HD 4600 | HM86 | 4GBx1 | 14" HD+ | 256G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AT002BUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002CUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 128G SSD | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002DUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002EUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 180G SSD Opal | 6235 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AT002FUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 180G SSD Opal | 6235 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---------------------|--|----------------|---------------------|-------------------------|------------------|-----------------|------------------|------------------------|-----------------------|--------|------------|------------|--------------------|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|--|---------|---------|-----|--|----------|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 2950M</td> <td rowspan="7">2</td> <td>2 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="7">DDR3L-1600</td> </tr> <tr> <td>i3-4000M</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="2">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4702MQ</td> <td>2.2 GHz</td> <td>3.2 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4712MQ</td> <td></td> <td>2.3 GHz</td> <td>3.3 GHz</td> <td>6MB</td> <td></td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | i3-4000M | 2.4 GHz | - | 3MB | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4702MQ | 2.2 GHz | 3.2 GHz | 6MB | i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | Keyboard | 6-row, spill-resistant, multimedia Fn keys |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+ / EVDO / GSM / GPRS / EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>4.96 lb / 2.25kg</td> <td>5.0 lb / 2.27kg</td> <td>5.36 lb / 2.43kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>10 hr</td> <td>11 hr</td> <td>21 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6.2 hr</td> <td>7.5 hr</td> <td>13 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | AC adapter | 65-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L440 20AT (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|-------------|-----------|------|----------|---------|--------|---------|---------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AT002JUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 1T 5400 | 7260 ac+BT | 16GB | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002KUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 256G SSD Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002LLUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002PUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | EM7355 | Select | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002QUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 180G SSD Opal | 6235 a/b/g/n+BT | EM7355 | Select | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AT002RUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | EM7355 | Select | Smart | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002TUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002UUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002VUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 180G SSD Opal | 6235 a/b/g/n+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AT002WUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 256G SSD Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT0051US | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 03/15 |
| 20AT0052US | i3-4100M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 03/15 |
| 20AT0053US | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 03/15 |
| 20AT002GUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 256G SSD Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AT002HUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------|--|----------------|---------------------|-------------------------|------------------|-----------------|------------------|------------------------|-----------------------|--------|------------|------------|--------------------|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|--|-----------|---------|---------|-----|--|----------|--|-----------|--|-------------|------|---------|--|-------------------|---|-------------------|-----------------------------|--------------|-------------------------------------|-------|---|
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| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | 4 | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+ / EVDO / GSM / GPRS / EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limited warranty¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(OS1-2) © Lenovo

ThinkPad L440 20AT (TopSeller) - III

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|---------|---------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20AT005WUS | i3-4100M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20AT005XUS | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20AT005YUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20AT0060US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 128G SSD | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20AT0061US | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20AT0062US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD+ | 256G SSD Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20AT0063US | i7-4712MQ | No | HD 4600 | HM86 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|-------------------------|------------------|-----------------|------------------|------------------------|---|--------|------------|---------------|--|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|--|-----------|---------|---------|-----|--|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | 4 | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm high, fixed, not removable, tray-in | ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio | Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>4.96 lb / 2.25kg</td> <td>5.0 lb / 2.27kg</td> <td>5.36 lb / 2.43kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>10 hr</td> <td>11 hr</td> <td>21 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6.2 hr</td> <td>7.5 hr</td> <td>13 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L440 20AS

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|---------|----------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AS0063US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 1-depot | Yes | 04/14 |
| 20AS005TUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 04/14 |
| 20AS002CUS | i3-4000M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002DUS | i3-4000M | No | HD 4600 | HM86 | 2GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002EUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002FUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002GUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002HUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002JUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002KUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 14" HD | 1T 5400 | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002LUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 14" HD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002MUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 14" HD+ | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002NUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 14" HD+ | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002SUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 14" HD+ | 1T 5400 | 7260 ac+BT | EM7355 | Select | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002TUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 14" HD+ | 256G SSD Opal | 7260 ac+BT | EM7355 | Select | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS005UUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 128G SSD | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 04/14 |
| 20AS005VUS | i5-4300M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD | 256G SSD Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 04/14 |
| 20AS005WUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 04/14 |

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications](#) sheet

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|---|----------------|---------------------|-------------------------|------------------|-----------------|------------------|------------------------|--------|--------|------------|----------|---------|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|---|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 2950M</td> <td rowspan="7">2</td> <td>2 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="7">DDR3L-1600</td> </tr> <tr> <td>i3-4000M</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="3">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4702MQ</td> <td>2.2 GHz</td> <td>3.2 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4712MQ</td> <td>2.3 GHz</td> <td>3.3 GHz</td> <td>6MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | i3-4000M | 2.4 GHz | - | 3MB | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4702MQ | 2.2 GHz | 3.2 GHz | 6MB | i7-4712MQ | 2.3 GHz | 3.3 GHz | 6MB | Keyboard UltraNav™ TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ThinkLight™ None | Chipset Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | ExpressCard (opt) One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Smart card reader <i>Optional:</i> Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Ports One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+ / EVDO / GSM / GPRS / EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD (1366x768), 200 nits, 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), 250 nits, 500:1 contrast ratio | Bluetooth™ Ethernet | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Security Security chip vPro (optional) Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ Weight ² | 14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>4.96 lb / 2.25kg</td> <td>5.0 lb / 2.27kg</td> <td>5.36 lb / 2.43kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>10 hr</td> <td>11 hr</td> <td>21 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6.2 hr</td> <td>7.5 hr</td> <td>13 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(OS1-3) © Lenovo

ThinkPad L440 20AS - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|---------|----------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AS0060US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD+ | 500G 7200 Opal | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 9 | 65W | Win8.1 DG Win7 | 3-depot | No | 04/14 |
| 20AS0061US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AS0062US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD+ | 256G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AS0064US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AS0065US | i5-4300M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD+ | 256G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AS0066US | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AS001NUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AS002UUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 6235 a/b/g/n+BT | Upg | None | None | None | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002VUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 6235 a/b/g/n+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS002WUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AS002XUS | i5-4330M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | 16GB | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AS002YUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD | 128G SSD | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AS0030US | i5-4330M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS0031US | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AS0032US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD+ | 500G 7200 | 6235 a/b/g/n+BT | 16GB | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AS0033US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD+ | 128G SSD | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AS0034US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD+ | 256G SSD Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AS007UUS | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 03/15 |

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications](#) sheet

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|----------------|--|----------------|---------------------|-------|--------------|-----------|---|-------|---|-----|------------|----------|---------|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|---|----------|--|-----------|--|-------------|------|---------|--|-------------------|---|-------------------|-----------------------------|--------------|-------------------------------------|-------|---|-------------------|--|-----------------|--|---------------------|--|------------|---|----------|---|----------|--|---------------|--|-----------------|-----------------------|--------------------|--|---------|--|--------------------------------|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 2950M</td> <td rowspan="7">2</td> <td>2 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="7">DDR3L-1600</td> </tr> <tr> <td>i3-4000M</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="3">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4702MQ</td> <td>2.2 GHz</td> <td>3.2 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4712MQ</td> <td>2.3 GHz</td> <td>3.3 GHz</td> <td>6MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | i3-4000M | 2.4 GHz | - | 3MB | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4702MQ | 2.2 GHz | 3.2 GHz | 6MB | i7-4712MQ | 2.3 GHz | 3.3 GHz | 6MB | <table border="1"> <tr> <td>Keyboard</td> <td>6-row, spill-resistant, multimedia Fn keys</td> </tr> <tr> <td>UltraNav™</td> <td>TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch</td> </tr> <tr> <td>ThinkLight™</td> <td>None</td> </tr> <tr> <td>Chipset</td> <td>Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset</td> </tr> <tr> <td>ExpressCard (opt)</td> <td>One slot (ExpressCard/34, ExpressCard/54)</td> </tr> <tr> <td>Smart card reader</td> <td>Optional: Smart card reader</td> </tr> <tr> <td>Media reader</td> <td>4-in-1 reader (MMC, SD, SDHC, SDXC)</td> </tr> <tr> <td>Ports</td> <td>One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector</td> </tr> <tr> <td>WLAN⁴</td> <td> 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card </td> </tr> <tr> <td>WWAN (optional)</td> <td> Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS </td> </tr> <tr> <td>SIM card (optional)</td> <td> AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider </td> </tr> <tr> <td>Bluetooth™</td> <td>Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</td> </tr> <tr> <td>Ethernet</td> <td> HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) </td> </tr> <tr> <td>Security</td> <td>Power-on password, hard disk password, supervisor password, security keyhole</td> </tr> <tr> <td>Security chip</td> <td>Trusted Platform Module, TCG 1.2-compliant</td> </tr> <tr> <td>vPro (optional)</td> <td>Intel vPro Technology</td> </tr> <tr> <td>Fingerprint reader</td> <td>Optional: Fingerprint reader on the keyboard bezel, swipe sensor</td> </tr> <tr> <td>Preload</td> <td> Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 </td> </tr> <tr> <td>Limited warranty¹²</td> <td>1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite</td> </tr> </table> | Keyboard | 6-row, spill-resistant, multimedia Fn keys | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | ThinkLight™ | None | Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | Smart card reader | Optional: Smart card reader | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | Security | Power-on password, hard disk password, supervisor password, security keyhole | Security chip | Trusted Platform Module, TCG 1.2-compliant | vPro (optional) | Intel vPro Technology | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L440 20AS - III

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|---------|-----------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AS005XUS | i5-4300M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8.1 DG Win7 | 3-depot | No | 04/14 |
| 20AS005YUS | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 04/14 |

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|-------------------------|------------------|-----------------|------------------|------------------------|---|--------|------------|-------------------------------|---|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|--|-----------|---------|---------|-----|--|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | 4 | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm high, fixed, not removable, tray-in | ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio | Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>4.96 lb / 2.25kg</td> <td>5.0 lb / 2.27kg</td> <td>5.36 lb / 2.43kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>10 hr</td> <td>11 hr</td> <td>21 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6.2 hr</td> <td>7.5 hr</td> <td>13 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L440 20AS (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|---------|-----------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20AS0003US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/54 | 720p | None | 6(48wh) | 65W | Win8 64 | 3-depot | No | 09/13 |
| 20AS0012US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | None | 6(48wh) | 65W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AS007VUS | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/54 | 720p | None | 6(48wh) | 65W | Win8.1 64 | 3-depot | No | 03/15 |

• For detailed platform specifications, please see [ThinkPad L440 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|-------------------------|------------------|-----------------|------------------|------------------------|---|--------|------------|-------------------------------|--|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|--|-----------|---------|---------|-----|--|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | 4 | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm high, fixed, not removable, tray-in | ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 500:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 500:1 contrast ratio | Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+ / EVDO / GSM / GPRS / EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.54" x 9.41" x 1.14-1.35"; 344mm x 239mm x 29.0-34.25mm | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>4.96 lb / 2.25kg</td> <td>5.0 lb / 2.27kg</td> <td>5.36 lb / 2.43kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.96 lb / 2.25kg | 5.0 lb / 2.27kg | 5.36 lb / 2.43kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>10 hr</td> <td>11 hr</td> <td>21 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6.2 hr</td> <td>7.5 hr</td> <td>13 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 10 hr | 11 hr | 21 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6.2 hr | 7.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad L450



Lenovo ThinkPad L450



Lenovo ThinkPad L450



Lenovo ThinkPad L450



Lenovo ThinkPad L450

ThinkPad L450 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | Intel® Celeron® processor, 4th Generation Intel Core™ i5 Processor, or 5th Generation Intel Core i3 / i5 / i7 Processor | | | | | | | | Smart card reader <i>Optional</i> : Smart card reader | | | | | | | | |
|--|---|-------------------|--------------|----------------|---------------------|-------|--------------|---|--|--------|-------------|-------------|-------------------|-------------------|------------------------------|---------|-------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Media reader Ports | | | | | | | | |
| | Cel 3205U | 2 | 4 | 1.5 GHz | - | 2MB | DDR3L-1600 | Intel HD Graphics | 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | |
| | i5-4300U | | | 1.9 GHz | 2.9 GHz | 3MB | | Intel HD Graphics 4400 | | | | | | | | | |
| | i3-5005U | | | 2 GHz | - | 3MB | | Intel HD Graphics 5500 | | | | | | | | | |
| i5-5200U | 2.2 GHz | | | 2.7 GHz | 3MB | | | | | | | | | | | | |
| i5-5300U | 2.3 GHz | | | 2.9 GHz | 3MB | | | | | | | | | | | | |
| Graphics | Intel HD Graphics or Intel HD Graphics 4400 / 5500 in processor only, or supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | | Camera <i>(optional)</i> Audio support | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | |
| Memory | Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Keyboard UltraNav™ | | | | | | | | |
| Display | <i>Some</i> : 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some</i> : 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS | | | | | | | | Security Security chip ThinkEngine | | | | | | | | |
| Multi-touch | None | | | | | | | | vPro <i>(optional)</i> Fingerprint reader | | | | | | | | |
| Storage | <i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some</i> : SSHD with 8GB NAND flash memory M.2 Solid State Drive (SSD), via M.2 card slot None | | | | | | | | <i>Optional</i> : Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | |
| M.2 SSD <i>(opt)</i> Optical | None | | | | | | | | Battery type Max battery life ¹⁰ | | | | | | | | |
| Ethernet | <i>Non-vPro model</i> : Intel Ethernet Connection I218-V (Clarkville) <i>vPro model</i> : Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell 23Wh</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16 hr</td> </tr> </tbody> </table> | Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16 hr |
| Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | |
| WWAN ⁴ | <i>One of the following, configurable by model</i> : • 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | AC adapter 45W AC adapter or 65W AC adapter | | | | | | | | |
| WWAN <i>(optional)</i> | <i>One of the following, configurable by model</i> : • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | Preload | | | | | | | | |
| SIM card <i>(opt)</i> | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) | | | | | | | | |
| Dimensions ³ Weight ² | 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | Limited warranty ¹² <i>One of the following, configurable by model</i> : • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | |
| Case material | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>4.25 lb / 1.93 kg</td> <td>4.43 lb / 2.01 kg</td> </tr> </tbody> </table> | | | | | | | | Models | 3-cell | 6-cell | Weight | 4.25 lb / 1.93 kg | 4.43 lb / 2.01 kg | Mil-Spec test Environment | | |
| | Models | 3-cell | 6-cell | | | | | | | | | | | | | | |
| Weight | 4.25 lb / 1.93 kg | 4.43 lb / 2.01 kg | | | | | | | | | | | | | | | |
| PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | MIL-STD-810G military certification EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | |

ThinkPad L450 20DT (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------|----------------|---------|------------------|------|----------|-------------------|--------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20DT000WUS | i3-5005U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DT000QUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DT000RUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DT000TUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DT0010US | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DT000SUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DT000YUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DT001AUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 02/15 |
| 20DT001BUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 02/15 |
| 20DT001CUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 02/15 |
| 20DT001DUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 02/15 |
| 20DT001KUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20DT001PUS | i3-5005U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20DT001QUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20DT001SUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20DT001VUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20DT001WUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ Weight ² | 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|---|----------------|---------------------|-------------|--------------|--------------|--------|---------|-------|-----|------------|----------|---------|---------|-----|----------|-------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|---|--------|--------|--------|--------|-------------------|-------------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 3205U | 2 | 1.5 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | | 2 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.25 lb / 1.93 kg | 4.43 lb / 2.01 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS None | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Battery type | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell 23Wh</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16 hr</td> </tr> </tbody> </table> | Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W AC adapter or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L450 20DS

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20DS001SUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" FHD IPS | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001UUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001WUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001XUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001YUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0020US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" FHD IPS | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0021US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0022US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" FHD IPS | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0023US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0024US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0025US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0026US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS000VUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0019US | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001HUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001MUS | i5-5200U | No | HD 5500 | 4GBx2 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS000TUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0011US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD IPS | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 3(23wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0012US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 3(23wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0013US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0018US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001AUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001CUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001DUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | 3(23wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |

* For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ Weight ² | 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|---|----------------|---------------------|-------------|--------------|--------------|--------|---------|-------|-----|------------|----------|---------|---------|-----|----------|-------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|---|--------|--------|--------|--------|-------------------|-------------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 3205U | 2 | 1.5 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | | 2 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.25 lb / 1.93 kg | 4.43 lb / 2.01 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Battery type | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell 23Wh</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16 hr</td> </tr> </tbody> </table> | Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | AC adapter | 45W AC adapter or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L450 20DS - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20DS0014US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 3(23wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS0016US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20DS001GUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | 3(23wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | | | | | | Dimensions ³ | 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|-------------|---|---------------------|------------|--------------|----------------------------------|---|--|--------|--------|-------------|-------------|-------------|--------------|--------|------------|-------|--|--|----------|---------|---------|-----|--|-------------------|-------------------|----------|-------|---|-----|--|--|--|----------|---------|---------|-----|--|--|--|----------|---------|---------|-----|--|--|--|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Cel 3205U</td> <td>1.5 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="5">DDR3L-1600</td> <td></td> <td></td> <td></td> </tr> <tr> <td>i5-4300U</td> <td>1.9 GHz</td> <td>2.9 GHz</td> <td>3MB</td> <td></td> <td>4.25 lb / 1.93 kg</td> <td>4.43 lb / 2.01 kg</td> </tr> <tr> <td>i3-5005U</td> <td>2 GHz</td> <td>-</td> <td>3MB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>i5-5200U</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | Models | 3-cell | 6-cell | Cel 3205U | 1.5 GHz | - | 2MB | DDR3L-1600 | | | | i5-4300U | 1.9 GHz | 2.9 GHz | 3MB | | 4.25 lb / 1.93 kg | 4.43 lb / 2.01 kg | i3-5005U | 2 GHz | - | 3MB | | | | i5-5200U | 2.2 GHz | 2.7 GHz | 3MB | | | | i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | | | |
| | Models | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Cel 3205U | 1.5 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300U | 1.9 GHz | 2.9 GHz | 3MB | | | 4.25 lb / 1.93 kg | 4.43 lb / 2.01 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i3-5005U | 2 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2.2 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 3205U | 2 | 1.5 GHz | - | 2MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | | 2 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | Battery type | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell 23Wh</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16 hr</td> </tr> </tbody> </table> | | | Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | AC adapter | 45W AC adapter or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L450 20DS (Onsite)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20DS000XUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS000YUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS0017US | i5-5200U | No | HD 5500 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS001JUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS000UUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 3(23wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS000WUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS0010US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS0015US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS001BUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 3(23wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS001EUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS001FUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS001KUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS001LUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 3(23wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20DS001NUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD IPS | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Finger | 3(23wh) | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |

• For detailed platform specifications, please see [ThinkPad L450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ Weight ² | 14.0" (WxDxH): 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|---|----------------|---------------------|-------------|--------------|--------------|--------|---------|-------|-----|------------|----------|---------|---------|-----|----------|-------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|---|--------|--------|--------|--------|-------------------|-------------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 3205U | 2 | 1.5 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | | 2 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 4.25 lb / 1.93 kg | 4.43 lb / 2.01 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 220 nits, 700:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Battery type | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell 23Wh</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16 hr</td> </tr> </tbody> </table> | Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell 23Wh | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W AC adapter or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad L460



Lenovo ThinkPad L460



Lenovo ThinkPad L460



Lenovo ThinkPad L460



Lenovo ThinkPad L460

ThinkPad L460 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor | Smart card reader Media reader Ports | <i>Optional:</i> Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|---|---------------------|------------------|---------------------|-----------------------|----------------|--------------------|------------------|---------|---------|----------|---|-----|------------|-----------------------|----------|---------|---|-----|-----------------------|----------|---|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|---|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>Cel 3855U</td> <td rowspan="2">2</td> <td rowspan="2">2</td> <td>1.6 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="4">DDR3L-1600</td> <td>Intel HD graphics 510</td> </tr> <tr> <td>i3-6100U</td> <td>2.3 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="3">Intel HD graphics 520</td> </tr> <tr> <td>i5-6200U</td> <td rowspan="3">4</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Cel 3855U | 2 | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | Intel HD graphics 510 | i3-6100U | 2.3 GHz | - | 3MB | Intel HD graphics 520 | i5-6200U | 4 | 2.3 GHz | 2.8 GHz | 3MB | i5-6300U | 2.4 GHz | 3.0 GHz | 3MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | Camera (<i>optional</i>) HD720p resolution, low light sensitive, fixed focus Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 3855U | 2 | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | Intel HD graphics 510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-6100U | | | 2.3 GHz | - | 3MB | | Intel HD graphics 520 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | 4 | 2.3 GHz | 2.8 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Security Security chip ThinkEngine | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | vPro (<i>optional</i>) Fingerprint reader | Intel vPro Technology <i>Optional:</i> Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | <i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 or 700:1 contrast ratio, 170° viewing angle | Battery Max battery life ¹⁰ (<i>MobileMark® 2014</i>) | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>6.93 hr</td> <td>12.7 hr</td> <td>20.53 hr</td> </tr> </tbody> </table> | | | Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | Max battery life | 6.93 hr | 12.7 hr | 20.53 hr | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life | 6.93 hr | 12.7 hr | 20.53 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | AC adapter | 45W or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <ul style="list-style-type: none"> • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville) | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (<i>optional</i>) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | SIM card (<i>opt</i>) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>integrated model</td> <td>4.25 lb / 1.93 kg</td> <td>4.45 lb / 2.02 kg</td> </tr> <tr> <td>discrete model</td> <td>4.3 lb / 1.95 kg</td> <td>4.5 lb / 2.04 kg</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell | integrated model | 4.25 lb / 1.93 kg | 4.45 lb / 2.02 kg | discrete model | 4.3 lb / 1.95 kg | 4.5 lb / 2.04 kg | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| integrated model | 4.25 lb / 1.93 kg | 4.45 lb / 2.02 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 4.3 lb / 1.95 kg | 4.5 lb / 2.04 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ThinkPad L460 20FU (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|----------------|------------------|------|----------|-------------------|--------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20FU0015US | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FU0025US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FU0014US | i5-6200U | No | HD 520 | 8GBx1 | 14.0" HD | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FU0017US | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FU001DUS | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FU001HUS | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FU0026US | i5-6300U | vPro | HD 520 | 4GBx1 | 14.0" HD | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FU0028US | i5-6300U | vPro | HD 520 | 4GBx1 | 14.0" HD | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FU002AUS | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications sheet](#)

| Processor | Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|---|----------------|---------------------|-------------|--------------|------------------|---------|---------|----------|-----|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|--|--------|--------|--------|------------------|-------------------|-------------------|----------------|------------------|------------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 3855U | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-6100U | | 2.3 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated model | 4.25 lb / 1.93 kg | 4.45 lb / 2.02 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 4.3 lb / 1.95 kg | 4.5 lb / 2.04 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | Fingerprint reader | Optional: Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>6.93 hr</td> <td>12.7 hr</td> <td>20.53 hr</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | Max battery life | 6.93 hr | 12.7 hr | 20.53 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life | 6.93 hr | 12.7 hr | 20.53 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(LR2-1) © Lenovo

ThinkPad L460 20FU (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|----------------|------------------|------|----------|-------------------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20FU001CUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 P64 | 1-depot | No | 01/16 |
| 20FU0024US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 P64 | 1-depot | No | 01/16 |
| 20FU0018US | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 P64 | 1-depot | No | 01/16 |
| 20FU001BUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" HD | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FU001EUS | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 P64 | 1-depot | No | 01/16 |
| 20FU001GUS | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 P64 | 1-depot | No | 01/16 |
| 20FU0027US | i5-6300U | vPro | HD 520 | 4GBx1 | 14.0" HD | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 45W | Win10 P64 | 1-depot | No | 01/16 |
| 20FU002BUS | i5-6300U | vPro | HD 520 | 4GBx1 | 14.0" HD | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Finger | 6(48wh) | 45W | Win10 P64 | 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications sheet](#)

| Processor | Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|---|----------------|---------------------|-------------|--------------|------------------|---------|---------|----------|-----|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|--|--------|--------|--------|------------------|-------------------|-------------------|----------------|------------------|------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 3855U</td> <td rowspan="6">2</td> <td>1.6 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i3-6100U</td> <td>2.3 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-6200U</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 3855U | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | i3-6100U | 2.3 GHz | - | 3MB | i5-6200U | 2.3 GHz | 2.8 GHz | 3MB | i5-6300U | 2.4 GHz | 3.0 GHz | 3MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>4.25 lb / 1.93 kg</td> <td>4.45 lb / 2.02 kg</td> </tr> <tr> <td>discrete model</td> <td>4.3 lb / 1.95 kg</td> <td>4.5 lb / 2.04 kg</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell | Integrated model | 4.25 lb / 1.93 kg | 4.45 lb / 2.02 kg | discrete model | 4.3 lb / 1.95 kg | 4.5 lb / 2.04 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 3855U | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-6100U | | 2.3 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated model | 4.25 lb / 1.93 kg | 4.45 lb / 2.02 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 4.3 lb / 1.95 kg | 4.5 lb / 2.04 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | Fingerprint reader | Optional: Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>6.93 hr</td> <td>12.7 hr</td> <td>20.53 hr</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | Max battery life | 6.93 hr | 12.7 hr | 20.53 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life | 6.93 hr | 12.7 hr | 20.53 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad L460 20FU (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|-----------|--------|----------|-----------|------------------|------|----------|-------------------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20FU0029US | i5-6200U | No | Radeon R5 | 4GBx1 | 14.0" HD | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | None | 6(48wh) | 65W | Win10 P64 | 1-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad L460 Platform Specifications sheet](#)

| | | | | | | | | | | | |
|-------------------|---|------------|----------------|---------------------|-------|--------------|--|---|---|-------------|-------------|
| Processor | Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | | Dimensions ³ Weight ² | WxDxH: 13.34" x 9.23" x 0.95"; 339mm x 235mm x 24.3mm | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | Models | 3-cell | 6-cell | |
| | Cel 3855U | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | Integrated model | 4.25 lb / 1.93 kg | 4.45 lb / 2.02 kg | | |
| | i3-6100U | | 2.3 GHz | - | 3MB | | discrete model | 4.3 lb / 1.95 kg | 4.5 lb / 2.04 kg | | |
| | i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | | | | | |
| | i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | |
| | i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | |
| Graphics | Intel HD Graphics 510 or 520 in processor only, or Intel HD Graphics 520 in processor and AMD Exo Pro Radeon R5, 2GB memory | | | | | | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Smart card reader | Optional: Smart card reader | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 220 nits, 400:1 / 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 / 700:1 contrast ratio, IPS | | | | | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | |
| Multi-touch | None | | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | |
| Optical | None | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | vPro (optional) | Intel vPro Technology | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | Fingerprint reader | Optional: Swipe style fingerprint reader on the keyboard bezel | | | |
| | | | | | | | Battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | |
| | | | | | | | Max battery life ¹⁰ | Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh |
| | | | | | | | (MobileMark® 2014) | Max battery life | 6.93 hr | 12.7 hr | 20.53 hr |
| | | | | | | | AC adapter | 45W or 65W AC adapter | | | |
| | | | | | | | Preload | Win10 DG Win7: | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | |
| | | | | | | | | Win10 P64: | Windows 10 Pro 64 | | |
| | | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad L540



Lenovo ThinkPad L540



Lenovo ThinkPad L540



Lenovo ThinkPad L540



Lenovo ThinkPad L540

ThinkPad L540 Platform Specifications

Product Specifications Reference (PSREF)

| Positioning | Mainstream business performance; two spindles | | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | |
|--------------------------------|--|-----------------|-----------------|----------------|---------------------|-------|--------------|--|--|-------------|---------------|-------------------------|-----------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|--|---|
| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | | | | | | | | | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | |
| | Cel 2950M | 2 | 4 | 2 GHz | - | 2MB | DDR3L-1600 | Intel HD Graphics 4600 | | | | | | | | | | | | | |
| | i3-4000M | | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | |
| | i3-4100M | | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | |
| | i5-4200M | | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | |
| | i5-4210M | | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | |
| | i5-4300M | | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | |
| | i5-4330M | | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | |
| | i7-4600M | | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | |
| i7-4702MQ | 4 | 8 | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | |
| i7-4712MQ | | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | WLAN ⁴ | <p>One of the following, configurable by model:</p> <ul style="list-style-type: none"> ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | WWAN (optional) | <p>One of the following, configurable by model (mutually exclusive with M.2 SSD):</p> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) | | | | | | | | | | | | |
| M.2 SSD | | | | | | | | SIM card (optional) | <p>One of the following, configurable by model:</p> <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | Bluetooth™ Ethernet | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | Security Security chip vPro (optional) | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports dual independent display; Max resolution: 3840x2160@30Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | |
| Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | Limited warranty ¹² | <p>One of the following, configurable by model:</p> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | Preload | <p>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64</p> <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Cloud Storage by SugarSync PC Device Stage Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) Cyberlink PowerDVD Cyberlink Power2Go Cyberlink PowerProducer | | | | | | | | | | | | |
| Dimensions ³ | <p>HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm</p> <p>FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm</p> | | | | | | | | Some: Windows 8 / 8.1 64-bit Some: Windows 8 / 8.1 Pro 64-bit Some: Windows 10 Pro 64 | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>HD</td> <td>5.54lb / 2.52kg</td> <td>5.60lb / 2.54kg</td> <td>5.95lb / 2.70kg</td> </tr> <tr> <td>FHD</td> <td>5.68lb / 2.58kg</td> <td>5.73lb / 2.60kg</td> <td>6.08lb / 2.76kg</td> </tr> </tbody> </table> | | | | | | | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | |
| HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | | | | | | | | | | | | | | | | | | |
| FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>9 hr</td> <td>11 hr</td> <td>19 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6 hr</td> <td>7 hr</td> <td>12 hr</td> </tr> </tbody> </table> | | | | | | | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | |
| Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant | | | | | | | | | | | | |
| ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | | | | | | | | | | | | | | | | | |
| Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | |
| Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | |

ThinkPad L540 20AV (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|-----------|---------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|--------------|----------------------|--------|----------------|
| 20AV0024US | i3-4000M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AV0025US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AV0026US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AV002VUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 11b/g/n+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AV0027US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20AV002FUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 6235 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20AV0028US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AV0029US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AV002AUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AV002BUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" FHD | 256G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AV002GUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002HUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 128G SSD | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002JUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002KUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 180G SSD Opal | 6235 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AV002LUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 6235 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AV002MUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 256G SSD Opal | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad L540 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---|--|----------------|---------------------|-------------------------|-----------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|----------|---------|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 2950M</td> <td rowspan="7">2</td> <td>2 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="7">DDR3L-1600</td> </tr> <tr> <td>i3-4000M</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="3">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4702MQ</td> <td>2.2 GHz</td> <td>3.2 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4712MQ</td> <td>2.3 GHz</td> <td>3.3 GHz</td> <td>6MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | i3-4000M | 2.4 GHz | - | 3MB | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4702MQ | 2.2 GHz | 3.2 GHz | 6MB | i7-4712MQ | 2.3 GHz | 3.3 GHz | 6MB | Keyboard UltraNav™ ThinkLight™ Chipset ExpressCard (opt)One slot (ExpressCard/34, ExpressCard/54) Smart card readerOptional: Smart card reader Media reader Ports WLAN ⁴ WWAN (optional) SIM card (optional) Bluetooth™ Ethernet Security Security chip vPro (optional) Fingerprint reader Preload Limited warranty ¹² |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint™ pointing device and Mylar surface touchpad, integrated five buttons, multi-touch None Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider User selectable, contract required with service provider Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Fingerprint reader on the palm rest, swipe sensor Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Win8 / 8.1 P64: Win10 P64: Windows 8 / 8.1 64-bit Windows 8 / 8.1 Pro 64-bit Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) , 220 nits, 500:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>HD</td> <td>5.54lb / 2.52kg</td> <td>5.60lb / 2.54kg</td> <td>5.95lb / 2.70kg</td> </tr> <tr> <td>FHD</td> <td>5.68lb / 2.58kg</td> <td>5.73lb / 2.60kg</td> <td>6.08lb / 2.76kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>9 hr</td> <td>11 hr</td> <td>19 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6 hr</td> <td>7 hr</td> <td>12 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(PD1-1) © Lenovo

ThinkPad L540 20AV (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|-----------|---------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AV002RUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | EM7355 | Select | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002SUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | EM7355 | Select | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002TUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | EM7355 | Select | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002UUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Uppg | None | Smart | None | None | Finger | 6(48wh) | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV006RUS | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Uppg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20AV002NUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Uppg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002PUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 1T 5400 | 7260 ac+BT | 16GB | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV002QUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 256G SSD Opal | 7260 ac+BT | Uppg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AV0081US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Uppg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20AV0082US | i5-4300M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" FHD | 256G SSD Opal | 7260 ac+BT | Uppg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20AV0083US | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Uppg | None | None | None | 720p | Finger | 9 | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20AV0084US | i7-4600M | vPro | HD 4600 | QM87 | 4GBx2 | 15.6" FHD | 256G SSD Opal | 7260 ac+BT | Uppg | None | None | None | 720p | Finger | 9 | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20AV0080US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Uppg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad L540 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|---|----------------|---------------------|-------------------------|-----------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|--------------------|---|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 2950M</td> <td rowspan="7">2</td> <td>2 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="7">DDR3L-1600</td> </tr> <tr> <td>i3-4000M</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="3">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4702MQ</td> <td>2.2 GHz</td> <td>3.2 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4712MQ</td> <td>2.3 GHz</td> <td>3.3 GHz</td> <td>6MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | i3-4000M | 2.4 GHz | - | 3MB | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4702MQ | 2.2 GHz | 3.2 GHz | 6MB | i7-4712MQ | 2.3 GHz | 3.3 GHz | 6MB | Keyboard UltraNav™ ThinkLight™ Chipset Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset ExpressCard (opt) One slot (ExpressCard/34, ExpressCard/54) Smart card reader <i>Optional</i> : Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | WWAN (optional) | Uppg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) , 220 nits, 500:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | Security Security chip | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>HD</td> <td>5.54lb / 2.52kg</td> <td>5.60lb / 2.54kg</td> <td>5.95lb / 2.70kg</td> </tr> <tr> <td>FHD</td> <td>5.68lb / 2.58kg</td> <td>5.73lb / 2.60kg</td> <td>6.08lb / 2.76kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | Fingerprint reader | <i>Optional</i> : Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>9 hr</td> <td>11 hr</td> <td>19 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6 hr</td> <td>7 hr</td> <td>12 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | AC adapter | 65-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(PD1-2) © Lenovo

ThinkPad L540 20AU

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|-----------|-----------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|--------------|----------------------|--------|----------------|
| 20AU002NUS | i5-4300M | No | HD 4600 | HM86 | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002PUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002QUS | i5-4330M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002RUS | i5-4330M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 1T 5400 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002SUS | i5-4330M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002TUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" HD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002VUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002WUS | i5-4300M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU002XUS | i3-4000M | No | HD 4600 | HM86 | 2GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU0030US | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" FHD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU0032US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU0033US | i5-4300M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU0036US | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU0037US | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU0039US | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" FHD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU003BUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" HD | 1T 5400 | 6235 a/b/g/n+BT | 16GB | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |

• For detailed platform specifications, please see [ThinkPad L540 Platform Specifications](#) sheet

| | | | | | | | | | | | | |
|--------------------------------|---|-----------------|-----------------|---------------------|-------|--------------------------------|--|---|--|--|--|--|
| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | | |
| | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | i3-4000M | | 2.4 GHz | - | 3MB | | ThinkLight™ | None | | | | |
| | i3-4100M | | 2.5 GHz | - | 3MB | | Chipset | Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | ExpressCard (opt) | One slot (ExpressCard/34, ExpressCard/54) | | | | |
| | i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | Smart card reader | <i>Optional:</i> Smart card reader | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | Ports | One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | |
| | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| | i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | WWAN (optional) | Upg: Wireless WAN upgradable Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| | i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | |
| M.2 SSD | <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 500:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | | | | | Fingerprint reader | <i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor | | | | | |
| Dimensions ³ | HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | |
| Weight ² | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | |
| | HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | | | | | | | | |
| | FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | |
| Max battery life ¹⁰ | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | |
| | Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | | | | | | | | |
| | Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | | | | | | | |
| AC adapter | 65-watt AC adapter | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

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ThinkPad L540 20AU - II

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|-----------|---------------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AU003FUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU003JUS | i5-4200M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 128G SSD | 6235 a/b/g/n+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU003LUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" FHD | 256G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU003MUS | i7-4702MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" FHD | 1T 5400 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU005YUS | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" FHD | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AU0060US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" FHD | 180G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AU0061US | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" FHD | 256G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AU0062US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AU0063US | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AU000YUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU001EUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU002UUS | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 128G SSD | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU002YUS | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | 16GB | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU0031US | i5-4330M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | 16GB | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU0038US | i5-4330M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" HD | 128G SSD | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU003AUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | Smart | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad L540 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-------------------------------|---|----------------|---------------------|-------------------------|-----------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|--------------------------------|---|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|---|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 2950M</td> <td rowspan="7">2</td> <td>2 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="7">DDR3L-1600</td> </tr> <tr> <td>i3-4000M</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="3">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4702MQ</td> <td>2.2 GHz</td> <td>3.2 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4712MQ</td> <td>2.3 GHz</td> <td>3.3 GHz</td> <td>6MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | i3-4000M | 2.4 GHz | - | 3MB | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4702MQ | 2.2 GHz | 3.2 GHz | 6MB | i7-4712MQ | 2.3 GHz | 3.3 GHz | 6MB | Keyboard UltraNav™ TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch ThinkLight™ None Chipset Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset ExpressCard (opt) One slot (ExpressCard/34, ExpressCard/54) Smart card reader Optional: Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768), 220 nits, 500:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>HD</td> <td>5.54lb / 2.52kg</td> <td>5.60lb / 2.54kg</td> <td>5.95lb / 2.70kg</td> </tr> <tr> <td>FHD</td> <td>5.68lb / 2.58kg</td> <td>5.73lb / 2.60kg</td> <td>6.08lb / 2.76kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>9 hr</td> <td>11 hr</td> <td>19 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6 hr</td> <td>7 hr</td> <td>12 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

ThinkPad L540 20AU - III

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Chipset | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------|--------|-----------|-----------|------------------|----------------|----------|-------------------|--------------|--------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20AU006CUS | i7-4712MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" FHD | 1T 5400 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8.1 DG Win7 | 3-depot | Yes | 03/15 |
| 20AU006DUS | i7-4712MQ | No | HD 4600 | HM86 | 8GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8.1 DG Win7 | 3-depot | Yes | 03/15 |
| 20AU006EUS | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | None | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 03/15 |
| 20AU006FUS | i5-4210M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8.1 DG Win7 | 3-depot | Yes | 03/15 |
| 20AU003EUS | i3-4000M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU003KUS | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU0034US | i5-4330M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU0035US | i5-4300M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 9 | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU003CUS | i5-4300M | No | HD 4600 | HM86 | 4GBx1 | 15.6" HD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/54 | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 09/13 |
| 20AU003DUS | i5-4300M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | None | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU003GUS | i7-4600M | vPro | HD 4600 | QM87 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AU003HUS | i7-4600M | vPro | HD 4600 | QM87 | 8GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | None | 720p | Finger | 6(56wh) | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad L540 Platform Specifications sheet](#)

| Processor | Intel® Celeron® Processor or 4th Generation Intel Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---------------------|---|----------------|---------------------|-------------------------|-----------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|--------------------------------|---|---|-----|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>Cel 2950M</td> <td rowspan="7">2</td> <td>2 GHz</td> <td>-</td> <td>2MB</td> <td rowspan="7">DDR3L-1600</td> </tr> <tr> <td>i3-4000M</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="3">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4702MQ</td> <td>2.2 GHz</td> <td>3.2 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4712MQ</td> <td>2.3 GHz</td> <td>3.3 GHz</td> <td>6MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | i3-4000M | 2.4 GHz | - | 3MB | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4702MQ | 2.2 GHz | 3.2 GHz | 6MB | i7-4712MQ | 2.3 GHz | 3.3 GHz | 6MB | Keyboard UltraNav™ ThinkLight™ Chipset Mobile Intel QM87 (vPro model) or HM86 (Non-vPro model) Express Chipset ExpressCard (opt) One slot (ExpressCard/34, ExpressCard/54) Smart card reader <i>Optional</i> : Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports One Always On USB 3.0, three USB 2.0, VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cel 2950M | 2 | 2 GHz | - | 2MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | | 2.4 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4702MQ | | 2.2 GHz | 3.2 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4712MQ | | 2.3 GHz | 3.3 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 6235 a/b/g/n+BT: Intel Centrino® Advanced-N 6235, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | DVD burner, 9.5mm high, fixed, not removable, tray-in <i>Some</i> : SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some</i> : HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some</i> : SSHD with 8GB NAND flash memory <i>Some</i> : M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | <i>Some</i> : 15.6" (396mm) HD (1366x768) , 220 nits, 500:1 contrast ratio <i>Some</i> : 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Ethernet | HM86 model: Intel Ethernet Connection I217-V (Clarkville) QM87 model: Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.84" x 9.72" x 1.13-1.34"; 377mm x 247mm x 28.8-34.05mm FHD (WxDxH): 14.84" x 9.72" x 1.22-1.43"; 377mm x 247mm x 31.0-36.25mm | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>HD</td> <td>5.54lb / 2.52kg</td> <td>5.60lb / 2.54kg</td> <td>5.95lb / 2.70kg</td> </tr> <tr> <td>FHD</td> <td>5.68lb / 2.58kg</td> <td>5.73lb / 2.60kg</td> <td>6.08lb / 2.76kg</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HD | 5.54lb / 2.52kg | 5.60lb / 2.54kg | 5.95lb / 2.70kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FHD | 5.68lb / 2.58kg | 5.73lb / 2.60kg | 6.08lb / 2.76kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Fingerprint reader | <i>Optional</i> : Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (48Wh or 56Wh) or 9-cell (99.9Wh), HW Authentication | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 56Wh</th> <th>9-cell 99.9Wh</th> </tr> </thead> <tbody> <tr> <td>Win7 (MobileMark® 2007)</td> <td>9 hr</td> <td>11 hr</td> <td>19 hr</td> </tr> <tr> <td>Win8 (MobileMark 2012)</td> <td>6 hr</td> <td>7 hr</td> <td>12 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 56Wh | 9-cell 99.9Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win7 (MobileMark® 2007) | 9 hr | 11 hr | 19 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Win8 (MobileMark 2012) | 6 hr | 7 hr | 12 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(PD1-5) © Lenovo



Lenovo® ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560



Lenovo ThinkPad L560

ThinkPad L560 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | |
|-------------------------|---|------------|--------------|----------------|---------------------|-------|--------------|-----------------------|--|
| Processor | Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | | | | ExpressCard (opt) One slot (ExpressCard/34) Smart card reader Optional: Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports <i>Cel 3855U model:</i> three USB 3.0, one USB 2.0 Always On; <i>Other model:</i> four USB 3.0 (one Always On), <i>All:</i> VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | |
| | Cel 3855U | 2 | 4 | 1.6 GHz | - | 2MB | DDR3L-1600 | Intel HD graphics 510 | |
| | i3-6100U | | | 2.3 GHz | - | 3MB | | Intel HD graphics 520 | |
| i5-6200U | 2.3 GHz | | | 2.8 GHz | 3MB | | | | |
| i5-6300U | | | 2.4 GHz | 3.0 GHz | 3MB | | | | |
| Graphics | Intel HD Graphics 510 or 520 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | | Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad UltraNav™ TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant ThinkEngine Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | | | vPro (optional) Intel vPro Technology Fingerprint reader Optional: Swipe style fingerprint reader on the palm rest |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 350:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle | | | | | | | | Battery Li-Ion 6-cell (48Wh) Max battery life ¹⁰ <i>MobileMark® 2014:</i> 11.2 hr AC adapter 45W AC adapter |
| Multi-touch | None | | | | | | | | Preload Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | | Limited warranty ¹² <i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) |
| Optical (optional) | DVD burner, 9mm high, fixed, not removable, tray-in | | | | | | | | Mil-Spec test MIL-STD-810G military certification |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | | Environment EPEAT™ Gold (US); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | |
| WWAN (optional) | <i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | |
| SIM card (opt) | | | | | | | | | |
| Dimensions ³ | <i>WxDxH:</i> 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm | | | | | | | | |
| Weight ² | from 5.25 lb / 2.38 kg | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | |

ThinkPad L560 20F1 (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Ex-press-Card | Camera | Finger-print reader | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|----------------|---------|------------------|------|----------|-------------------|---------------|--------|---------------------|----------------|----------------------|---------------|----------------------|--------|----------------|
| 20F1001QUS | i5-6200U | No | HD 520 | 8GBx1 | 15.6" FHD IPS | 256G SSD Opal2 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | Finger | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001VUS | i5-6300U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | 256G SSD Opal2 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | Finger | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001MUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | 500G 7200 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001NUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | 192G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001PUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | 500G 7200 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001RUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | 128G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001SUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | 192G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001TUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" HD | 500G 7200 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F1001UUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" HD | 128G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications sheet](#)

| | | | | | | | | | | | |
|--------------------|--|------------|----------------|---------------------|--------------|--------------|-------------------------------------|---|--|--|--|
| Processor | Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | | Dimensions ³ | WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | from 5.25 lb / 2.38 kg | | | |
| | Cel 3855U | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | |
| | i3-6100U | | 2.3 GHz | - | 3MB | | ExpressCard (opt) | One slot (ExpressCard/34) | | | |
| | i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | |
| i5-6300U | 2.4 GHz | | 3.0 GHz | 3MB | Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Graphics | Intel HD Graphics 510 or 520 in processor | | | | | | Ports | <i>Cel 3855U model:</i> three USB 3.0, one USB 2.0 Always On; <i>Other model:</i> four USB 3.0 (one Always On), <i>All:</i> VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | |
| Multi-touch | None | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| Optical (optional) | DVD burner, 9mm high, fixed, not removable, tray-in | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | | | | | | vPro (optional) | Intel vPro Technology | | | |
| WLAN ⁴ | <i>BCM ac+BT:</i> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card <i>8260 ac+BT:</i> Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | Fingerprint reader | Optional: Swipe style fingerprint reader on the palm rest | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Battery | Li-Ion 6-cell (48Wh) | | | |
| WWAN (optional) | <i>Upg:</i> Wireless WAN upgradable <i>EM7455:</i> Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card <i>ME906S:</i> Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | Max battery life ¹⁰ | MobileMark® 2014: 11.2 hr | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | AC adapter | 45W AC adapter | | | |
| | | | | | | | Preload | <i>Win10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64 | | | |
| | | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | |

See footnotes for more detailed information

(LN1-1) © Lenovo

ThinkPad L560 20F1 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Ex-press-Card | Camera | Finger-print reader | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|----------------|---------|------------------|------|----------|-------------------|---------------|--------|---------------------|----------------|----------------------|-----------|----------------------|--------|----------------|
| 20F1000QUS | i5-6300U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | 256G SSD Opal2 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | Finger | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000VUS | i5-6200U | No | HD 520 | 8GBx1 | 15.6" FHD IPS | 256G SSD Opal2 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | Finger | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000PUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | 192G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000RUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | 128G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000SUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | 500G 7200 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000TUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | 500G 7200 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000UUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" HD | 128G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000WUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | 192G SSD | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F1000XUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" HD | 500G 7200 | DVD±RW | 8260 ac+BT | None | None | None | None | 720p | None | 6 | 45W | Win10 P64 | 1-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad L560 Platform Specifications sheet](#)

| | | | | | | | | | | | |
|--------------------|--|------------|----------------|---------------------|--------------|--------------|-------------------------------------|---|--|--|--|
| Processor | Intel® Celeron® processor or 6th Generation Intel Core™ i3 / i5 / i7 Processor | | | | | | Dimensions ³ | WxDxH: 14.84" x 9.75" x 1.08-1.21"; 377mm x 255mm x 27.6-30.85mm | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | from 5.25 lb / 2.38 kg | | | |
| | Cel 3855U | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | |
| | i3-6100U | | 2.3 GHz | - | 3MB | | ExpressCard (opt) | One slot (ExpressCard/34) | | | |
| | i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | |
| i5-6300U | 2.4 GHz | | 3.0 GHz | 3MB | Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Graphics | Intel HD Graphics 510 or 520 in processor | | | | | | Ports | <i>Cel 3855U model:</i> three USB 3.0, one USB 2.0 Always On; <i>Other model:</i> four USB 3.0 (one Always On), <i>All:</i> VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768), 220 nits, 350:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | |
| Multi-touch | None | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| Optical (optional) | DVD burner, 9mm high, fixed, not removable, tray-in | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | | | | | | vPro (optional) | Intel vPro Technology | | | |
| WLAN ⁴ | <i>BCM ac+BT:</i> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card <i>8260 ac+BT:</i> Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | Fingerprint reader | Optional: Swipe style fingerprint reader on the palm rest | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Battery | Li-Ion 6-cell (48Wh) | | | |
| WWAN (optional) | <i>Upg:</i> Wireless WAN upgradable <i>EM7455:</i> Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card <i>ME906S:</i> Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | Max battery life ¹⁰ | MobileMark® 2014: 11.2 hr | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | AC adapter | 45W AC adapter | | | |
| | | | | | | | Preload | <i>Win10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Win10 P64:</i> Windows 10 Pro 64 | | | |
| | | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | |

See footnotes for more detailed information

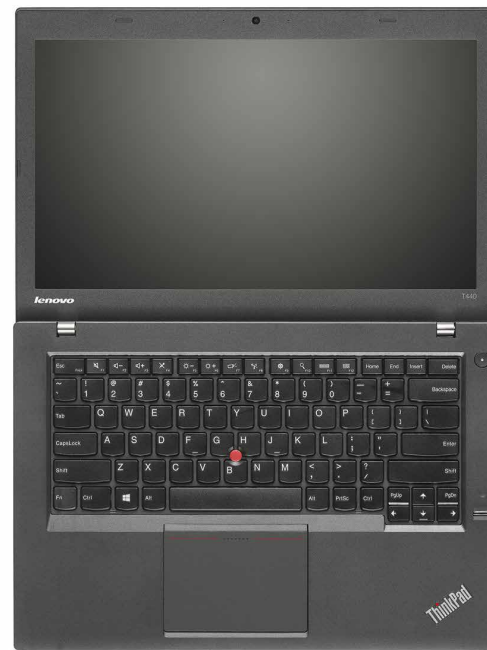
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Lenovo® ThinkPad T440



Lenovo ThinkPad T440



Lenovo ThinkPad T440



Lenovo ThinkPad T440



Lenovo ThinkPad T440

ThinkPad T440 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--------------|------------------------|---------------------|----------------------|---|---|---|---|
| Positioning | Mainstream Ultrabook™ or Thinbook; one spindle | | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | |
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | ThinkLight™ | None | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | WLAN ⁴ <i>One of the following, configurable by model:</i> | |
| | i3-4010U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | Intel HD graphics 4400 | <ul style="list-style-type: none"> ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card | |
| | i3-4030U | | | 1.9 GHz | - | 3MB | | | | |
| | i5-4200U | | | 1.6 GHz | 2.6 GHz | 3MB | | | | |
| | i5-4210U | | | 1.7 GHz | 2.7 GHz | 3MB | | | | |
| | i5-4300U | | | 1.9 GHz | 2.9 GHz | 3MB | | | | |
| | i7-4500U | | | 1.8 GHz | 3 GHz | 4MB | | | | |
| i7-4600U | 2.1 GHz | | | 3.3 GHz | 4MB | | | | | |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | | | | WWAN (optional) | <i>One of the following, configurable by model (mutually exclusive with M.2 SSD):</i> |
| Optical Storage | None <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | SIM card (optional) | <i>One of the following, configurable by model:</i> | |
| M.2 SSD | <i>Some:</i> Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader <i>Some:</i> Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | | <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider | | |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | |
| Multi-touch Camera | <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville) <i>Optional:</i> Near Field Communication | |
| Graphics | Intel HD Graphics 4400 in processor only, or Intel HD Graphics 4400 in processor and NVIDIA GeForce® GT 720M, PCI Express® x8, 1GB memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; <i>Max external resolution:</i> 1920x1200@60Hz (VGA); 3840x2160@30Hz (DisplayPort via Mini DisplayPort cable on integrated models); 2560x1600@60Hz (DisplayPort via Mini DisplayPort cable on optimus models) | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | |
| Dimensions ³ | 14.0W" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0W" MultiTouch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | | Fingerprint reader | | | |
| | Integrated Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | | <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor | | | |
| | Integrated MultiTouch | 4.03 lb / 1.83kg | | 4.33 lb / 1.97kg | | | Limited warranty ¹² <i>One of the following, configurable by model:</i> | | | |
| | Optimus Non-MultiTouch | 3.73 lb / 1.69kg | | 4.04 lb / 1.83kg | | | <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | |
| | Optimus MultiTouch | 3.97 lb / 1.80kg | | 4.33 lb / 1.97kg | | | Preload | | | |
| | Case material | Glass-Fiber Reinforced Plastic | | | | | | | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | |
| Internal battery | <i>Optional:</i> Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | <i>Some:</i> Windows 8 / 8.1 64-bit | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | <i>Some:</i> Windows 8 / 8.1 Pro 64-bit | | |
| Max battery life ¹⁰ | Models | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo Support Lenovo Companion ThinkVantage System Update Lenovo Reach (Windows 8.1 model) Hightail - Metro (Windows 8.1 model) Lenovo Cloud Storage by SugarSync Lenovo Cloud Storage - Metro (Windows 8 model) Lenovo Cloud Storage by SugarSync (Windows 8 model) PC Device Stage AccuWeather Amazon Kindle Nitro Pro Evernote Skype Rara Streaming Norton Studio Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions) | | |
| | Integrated | 8.6 hr | | 12.9 hr | | 17.2 hr | | | | |
| | Optimus | 7.7 hr | | 11.6 hr | | 15.4 hr | | | | |
| AC adapter | Integrated models: 45-watt AC adapter; Optimus models: 65-watt AC adapter | | | | | | | <ul style="list-style-type: none"> Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | Mil-Spec test | MIL-STD-810G military certification | |
| Smart card reader | <i>Optional:</i> Smart card reader, exclusive with M.2 SSD | | | | | | | Environment | EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | |

ThinkPad T440 20B6 (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|----------------|------------|-------------------------|---------------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20B6009TUS | i3-4030U | No HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 b/g/n+BT | Upp | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 1-depot | No | 09/14 |
| 20B60057US | i5-4200U | No HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 b/g/n+BT | Upp | None | 16GB | 720p | None | None | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20B6005FUS | i5-4200U | No HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 b/g/n+BT | Upp | None | None | 720p | None | None | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20B6006CUS | i5-4200U | No HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 11/13 |
| 20B6008EUS | i5-4200U | No HD 4400 | 4+0GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 03/14 |
| 20B60058US | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | None | None | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20B6005GUS | i5-4300U | No HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 b/g/n+BT | Upp | None | None | 720p | None | None | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20B6005RUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20B6008CUS | i5-4200U | No HD 4400 | 4+0GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/14 |
| 20B60059US | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | None | None | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005AUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005BUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005CUS | i5-4300U vPro | HD 4400 | 0+8GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005DUS | i5-4300U vPro | HD 4400 | 0+8GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005HUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20B6005JUS | i5-4300U vPro | HD 4400 | 0+8GB 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20B6005KUS | i5-4300U vPro | HD 4400 | 0+8GB 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005LUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005MUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | None | 720p | None | None | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

| | | | | | | | | | | |
|--------------------------------|---|------------------|--|------------------------|-------|----------------------|---|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | WWAN (optional) | Upp: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | | NFC | Optional: Near Field Communication | | |
| Dimensions ³ | 14.0W" (WxDxH): | | 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| Weight ² | 14.0W" MultiTouch (WxDxH): | | 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | |
| | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | vPro (optional) | Intel vPro Technology | | | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | |
| | MultiTouch | 4.03 lb / 1.83kg | | 4.33 lb / 1.97kg | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | | | | |
| | Battery life | 8.6 hr | | 12.9 hr | | 17.2 hr | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | |

See footnotes for more detailed information

(CB1-1) © Lenovo

ThinkPad T440 20B6 (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) | |
|------------|----------------|--------------|-------------------------|---------------------|---------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|--------|-------------------------|----------------------|---------|----------------------|---------|----------------|-------|
| 20B6006AUS | i5-4300U | vPro HD 4400 | 0+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20B6009MUS | i5-4300U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 07/14 |
| 20B6008FUS | i5-4300U | vPro HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 16GB 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20B6008GUS | i5-4300U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 16GB 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20B6008HUS | i5-4300U | vPro HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20B6009NUS | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 07/14 |
| 20B6005EUS | i7-4600U | vPro HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 16GB 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6005NUS | i7-4600U | vPro HD 4400 | 4+0GB | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20B6005PUS | i7-4600U | vPro HD 4400 | 4+0GB | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20B6006BUS | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20B6006DUS | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20B6006EUS | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20B6008DUS | i7-4600U | vPro HD 4400 | 4+0GB | 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 16GB 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20B6008JUS | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 16GB 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 03/14 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

| | | | | | | | | |
|--------------------------------|--|------------------|------------------------|----------------------|-------|--------------------------------|---|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | NFC | Optional: Near Field Communication | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Dimensions ³ | 14.0W" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0W" MultiTouch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | vPro (optional) | Intel vPro Technology | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | |
| | MultiTouch | 4.03 lb / 1.83kg | | 4.33 lb / 1.97kg | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell 47.5Wh | 3-cell + 6-cell 72Wh | | | | |
| | Battery life | 8.6 hr | 12.9 hr | 17.2 hr | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | |

See footnotes for more detailed information

(CB1-2) © Lenovo

ThinkPad T440 20B6 (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) | |
|------------|----------------|----------|-------------------------|---------------------|---------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|--------|-------------------------|----------------------|---------|----------------------|---------|----------------|-------|
| 20B60076US | i5-4200U | No HD | 4400 | 0+4GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | None | None | 3+3 | 45W | Win8.1 P64 | 1-depot | No | 01/14 |
| 20B60077US | i5-4300U | vPro HD | 4400 | 0+4GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20B60078US | i5-4300U | vPro HD | 4400 | 0+4GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20B60079US | i5-4300U | vPro HD | 4400 | 0+4GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20B6002AUS | i5-4300U | vPro HD | 4400 | 0+4GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20B6002BUS | i5-4300U | vPro HD | 4400 | 0+4GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20B6008KUS | i5-4300U | vPro HD | 4400 | 4+0GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 03/14 |
| 20B6007AUS | i7-4600U | vPro HD | 4400 | 4+0GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20B6007BUS | i7-4600U | vPro HD | 4400 | 4+0GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20B6009PUS | i7-4600U | vPro HD | 4400 | 4+4GB 14" HD+ | MT | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 07/14 |
| 20B6002CUS | i7-4600U | vPro HD | 4400 | 4+0GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20B6002DUS | i7-4600U | vPro HD | 4400 | 4+0GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

| | | | | | | | | | | | | | |
|--------------------------------|--|------------------|--|---------------------|------------------------|--------------------|--|--|--|----------------------------|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | | | |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | | NFC | Optional: Near Field Communication | | | | | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): | | 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | vPro (optional) | Intel vPro Technology | | | | | | |
| Weight ² | 14.0W" MultiTouch (WxDxH): | | 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | |
| | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | Preload | Win8 / 8.1 DG Win7: | | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | | Win8 / 8.1 64: | | Windows 8 / 8.1 64-bit | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | Win8 / 8.1 P64: | | Windows 8 / 8.1 Pro 64-bit | | | |
| | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |
| | External battery Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | | 3-cell + 6-cell 72Wh | | | | | |
| | Battery life | | 8.6 hr | | 12.9 hr | | 17.2 hr | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | | |

See footnotes for more detailed information

(CB1-3) © Lenovo

ThinkPad T440 20B7

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|----------------|--------------|-------------------------|---------------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20B70044US | i5-4300U | vPro HD 4400 | 0+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B70047US | i5-4300U | vPro HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004CUS | i5-4300U | vPro HD 4400 | 0+8GB 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004FUS | i5-4300U | vPro HD 4400 | 0+8GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004HUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004JUS | i5-4300U | vPro HD 4400 | 0+8GB 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004MUS | i5-4300U | vPro HD 4400 | 0+8GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7008UUS | i5-4300U | vPro HD 4400 | 4+4GB 14" HD+ | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20B7008WUS | i5-4300U | vPro HD 4400 | 4+0GB 14" HD | No | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20B7008YUS | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20B7008VUS | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20B7008XUS | i7-4600U | vPro HD 4400 | 4+4GB 14" HD+ | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20B7004BUS | i7-4600U | vPro HD 4400 | 4+4GB 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004DUS | i7-4600U | vPro HD 4400 | 4+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004GUS | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20B7004QUS | i7-4600U | vPro HD 4400 | 4+4GB 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

| | | | | | | | | | | | |
|--------------------------------|--|------------------|----------------|------------------------|-------|--------------------------------|---|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | NFC | Optional: Near Field Communication | | | | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0W" MultiTouch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | vPro (optional) | Intel vPro Technology | | | | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | |
| | MultiTouch | 4.03 lb / 1.83kg | | 4.33 lb / 1.97kg | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | AC adapter | 45-watt AC adapter | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | | | | | | |
| | Battery life | 8.6 hr | | 12.9 hr | | | | | | | |

See footnotes for more detailed information

(CB1-4) © Lenovo

ThinkPad T440 20B7 (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|----------------|----------|-------------------------|---------------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20B7005KUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20B7005MUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20B70005US | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B70009US | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000BUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000FUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000JUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000NUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000QUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000TUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000UUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000VUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000WUS | i5-4300U vPro | HD 4400 | 0+4GB 14" HD | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7003SUS | i5-4300U vPro | HD 4400 | 0+8GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20B7003UUS | i5-4300U vPro | HD 4400 | 0+8GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20B7003VUS | i5-4300U vPro | HD 4400 | 0+8GB 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20B70061US | i5-4300U vPro | HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 03/14 |
| 20B70062US | i5-4300U vPro | HD 4400 | 4+0GB 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 03/14 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|--|------------------|--|---------------------|-----------------|--------------------------------|---|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | NFC | Optional: Near Field Communication | | | | | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): | | 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Weight ² | 14.0W" MultiTouch (WxDxH): | | 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| | Models | 3-cell + 3-cell | 3-cell + 6-cell | | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | 4.10 lb / 1.86kg | | | | | | | | | |
| | MultiTouch | 4.03 lb / 1.83kg | 4.33 lb / 1.97kg | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | | | | | | |
| | Battery life | 8.6 hr | 12.9 hr | | 17.2 hr | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

ThinkPad T440 20B7 (Windows 8) - II

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|----------------|--------------|-------------------------|---------------------|-----------------|------------------|----------------|----------|-----------------------------|---------|-------------------|---------------------|------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20B70066US | i5-4300U | vPro HD 4400 | 4+0GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 03/14 |
| 20B70068US | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 03/14 |
| 20B70069US | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 03/14 |
| 20B7005LUS | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20B7005NUS | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20B70006US | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B70008US | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000GUS | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B7000RUS | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20B70065US | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 03/14 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

| | | | | | | | | | | | |
|--------------------------------|--|------------------|--|------------------------|-------|--------------------------------|---|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | NFC | Optional: Near Field Communication | | | | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | |
| Dimensions ³ | 14.0W" (WxDxH): | | 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | vPro (optional) | Intel vPro Technology | | | | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | |
| | MultiTouch | 4.03 lb / 1.83kg | | 4.33 lb / 1.97kg | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | AC adapter | 45-watt AC adapter | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | | | | | |
| | Battery life | 8.6 hr | | 12.9 hr | | 17.2 hr | | | | | |

See footnotes for more detailed information

(CB1-6) © Lenovo

ThinkPad T440 20B7 (Onsite)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|----------------|--------------|-------------------------|---------------------|---------|------------------|----------------|----------|-----------------------------|-----------|-------------------|---------------------|------|-------------------------|----------------------|--------------|----------------------|--------|----------------|
| 20B70048US | i5-4300U | vPro HD 4400 | 0+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B70049US | i5-4300U | vPro HD 4400 | 0+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B7004EUS | i5-4300U | vPro HD 4400 | 0+8GB | 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B7004LUS | i5-4300U | vPro HD 4400 | 0+8GB | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B7004NUS | i5-4300U | vPro HD 4400 | 0+8GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B7004PUS | i5-4300U | vPro HD 4400 | 0+4GB | 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B7004RUS | i5-4300U | vPro HD 4400 | 0+8GB | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B70045US | i7-4600U | vPro HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B70046US | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B7004AUS | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20B7004KUS | i7-4600U | vPro HD 4400 | 4+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

| | | | | | | | | | | | |
|--------------------------------|--|------------------|--|------------------------|-------|--------------------------------|---|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | NFC | Optional: Near Field Communication | | | | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | |
| Dimensions ³ | 14.0W" (WxDxH): | | 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | vPro (optional) | Intel vPro Technology | | | | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | |
| | MultiTouch | 4.03 lb / 1.83kg | | 4.33 lb / 1.97kg | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | | | | | |
| | Battery life | 8.6 hr | | 12.9 hr | | 17.2 hr | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad T440 20B7 (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory (soldered +DIMM) | Multi-Display touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|----------------|--------------|-------------------------|---------------------|-----------------|------------------|----------------|----------|-----------------------------|---------|-------------------|---------------------|------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20B70007US | i5-4300U | vPro HD 4400 | 0+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7000DUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7000HUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | None 720p | None | None | Finger | None | No+6(47.5wh) | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7000LUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD | No | 128G SSD | 7260 ac+BT | Upg | None | None 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7000MUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None 720p | None | None | Finger | None | No+6(47.5wh) | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7000PUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7000SUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7000XUS | i5-4300U | vPro HD 4400 | 0+4GB 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20B7003TUS | i5-4300U | vPro HD 4400 | 0+8GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 09/13 |
| 20B7003WUS | i5-4300U | vPro HD 4400 | 0+8GB 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 09/13 |
| 20B70063US | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20B70064US | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 240G SSD Opal | 7260 ac+BT | Upg | None | None 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20B70067US | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20B7006AUS | i5-4300U | vPro HD 4400 | 4+0GB 14" HD+ | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | Backlit | Finger | None | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20B7000CUS | i7-4600U | vPro HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB 720p | None | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |

• For detailed platform specifications, please see [ThinkPad T440 Platform Specifications](#) sheet

| | | | | | | | | | | |
|--------------------------------|--|------------------|--|------------------------|-------|--------------------------------|---|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | |
| | i3-4030U | | 1.9 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | |
| | i7-4500U | | 1.8 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | |
| Memory | 8GB or 12GB* max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable*, 4GB memory soldered to systemboard on selected models, one 204-pin SO-DIMM socket (*for the models with 4GB on-board memory) | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio | | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | | NFC | Optional: Near Field Communication | | |
| Camera | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | |
| Dimensions ³ | 14.0W" (WxDxH): | | 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | vPro (optional) | Intel vPro Technology | | | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | |
| | Non-MultiTouch | 3.79 lb / 1.72kg | | 4.10 lb / 1.86kg | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | |
| | MultiTouch | 4.03 lb / 1.83kg | | 4.33 lb / 1.97kg | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | | | | |
| | Battery life | 8.6 hr | | 12.9 hr | | 17.2 hr | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | |

See footnotes for more detailed information

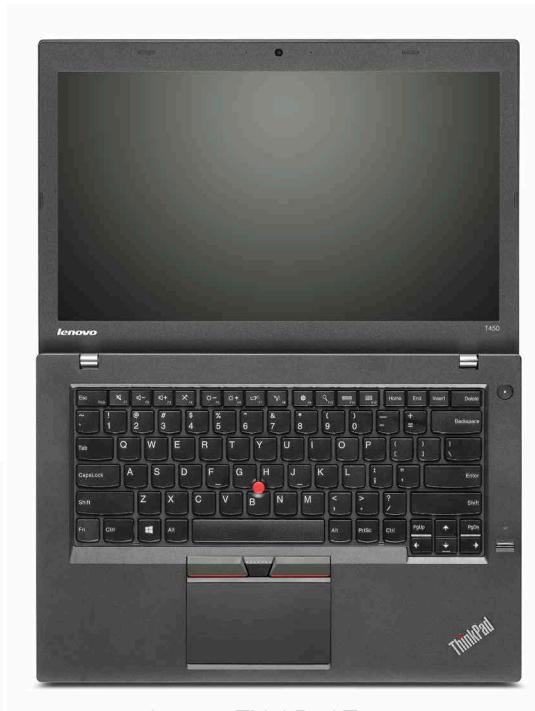
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Lenovo® ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450



Lenovo ThinkPad T450

ThinkPad T450 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | | | | | | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | |
|-------------------------|---|----------------------|----------------------|----------------|---------------------|-------|--------------|--------------------------------|---|---|-----------------|----------------------|----------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|---------------|-------------------------------------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | |
| | i3-4030U | 2 | 4 | 1.9 GHz | - | 3MB | DDR3L-1600 | Intel HD Graphics 4400 | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | |
| | i5-4300U | | | 1.9 GHz | 2.9 GHz | | | | 3MB | Intel HD Graphics 5500 | | | | | | | | | | | |
| | i3-5010U | | | 2.1 GHz | - | | | | | | | | | | | | | | | | |
| | i5-5200U | | | 2.2 GHz | 2.7 GHz | 4MB | | | | | | | | | | | | | | | |
| | i5-5300U | | | 2.3 GHz | 2.9 GHz | | | | | | | | | | | | | | | | |
| | i7-5500U | | | 2.4 GHz | 3 GHz | | | | | | | | | | | | | | | | |
| | i7-5600U | 2.6 GHz | 3.2 GHz | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | |
| Display | <i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | |
| Optical | None | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.08 hr</td> <td>14.78 hr</td> <td>19.78 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | |
| Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update PC Device Stage Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | | | | | | | | | | | | |
| Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>3.58 lb / 1.63 kg</td> <td>3.81 lb / 1.73 kg</td> <td>4.21 lb / 1.91 kg</td> </tr> <tr> <td>Multi-touch</td> <td>3.89 lb / 1.76 kg</td> <td>4.11 lb / 1.87 kg</td> <td>4.52 lb / 2.05 kg</td> </tr> </tbody> </table> | | | | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | Mil-Spec test | MIL-STD-810G military certification |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | | | | | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom:</i> Glass-Fiber Reinforced Plastic | | | | | | | Environment | EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | |

ThinkPad T450 20BV (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|-------------|-----------|------|----------|--------|---------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20BV0007US | i3-5010U | No | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 11b/g/n+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20BV0005US | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20BV0000CUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20BV0001US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BV0002US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BV0009US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BV0000AUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BV0000EUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BV0003US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BV0000DUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BV0000AUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 1-depot | No | 04/15 |
| 20BV0004US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 04/15 |
| 20BV0008US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 04/15 |
| 20BV0000FUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 04/15 |
| 20BV0000GUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 04/15 |
| 20BV0005FUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BV0005GUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BV0005LUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BV00063US | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 09/15 |
| 20BV00064US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| | | | | | | | | | | |
|-------------------|---|--------------------------------|--|---|----------------------|----------------------|--|-------------------|-------------------|-----------------|
| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell |
| i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | | | Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | |
| i3-5010U | | 2.1 GHz | - | | | Case material | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | | | Smart card reader | Optional: Smart card reader | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | Intel vPro (optional) | Intel vPro Technology | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | |
| Optical | None | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Max battery life ¹⁰ | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Preload | Win8.1 / 10 DG Win7: | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | Win8.1 64: | Windows 8.1 64-bit | | | | | | |
| | | | Win8.1 P64: | Windows 8.1 Pro 64-bit | | | | | | |
| | | | Win10 P64: | Windows 10 Pro 64 | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | |

See footnotes for more detailed information

(CB2-1) © Lenovo

ThinkPad T450 20BV (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|---------------|----------------------|--------|----------------|
| 20BV005HUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" HD+ | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BV0061US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BV0062US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BV0065US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|----------------|---------------------|----------------------|----------------------|--------------|----------|----------|----------|-----|------------|----------|---------|---------|----------|---------|---|----------|---------|---------|----------|---------|---------|----------|---------|-------|-----|----------|---------|---------|---------------------|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4030U</td> <td rowspan="6">2</td> <td>1.9 GHz</td> <td>-</td> <td rowspan="5">3MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i5-4300U</td> <td>1.9 GHz</td> <td>2.9 GHz</td> </tr> <tr> <td>i3-5010U</td> <td>2.1 GHz</td> <td>-</td> </tr> <tr> <td>i5-5200U</td> <td>2.2 GHz</td> <td>2.7 GHz</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> </tr> <tr> <td>i7-5500U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td rowspan="2">4MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | i5-4300U | 1.9 GHz | 2.9 GHz | i3-5010U | 2.1 GHz | - | i5-5200U | 2.2 GHz | 2.7 GHz | i5-5300U | 2.3 GHz | 2.9 GHz | i7-5500U | 2.4 GHz | 3 GHz | 4MB | i7-5600U | 2.6 GHz | 3.2 GHz | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>3.58 lb / 1.63 kg</td> <td>3.81 lb / 1.73 kg</td> <td>4.21 lb / 1.91 kg</td> </tr> <tr> <td>Multi-touch</td> <td>3.89 lb / 1.76 kg</td> <td>4.11 lb / 1.87 kg</td> <td>4.52 lb / 2.05 kg</td> </tr> </tbody> </table> | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5010U | | 2.1 GHz | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | 3.2 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro mode) or I218-LM (vPro mode) | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.08 hr</td> <td>14.78 hr</td> <td>19.78 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(CB2-7) © Lenovo

ThinkPad T450 20BV (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Multi-Display | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam-era | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Ann date (m/y) | |
|------------|-----------|------|----------|--------|---------------|----------------|---------|------------------|------|----------|-------------------|---------|------------------|---------------------|-------------------------|----------------------|------------|----------------------|----------------|-------|
| 20BV0006US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | |
|-------------------|---|---|----------------|---------------------|--|--------------------------------|--|---------------|-------------------------------------|--|---|-------------------|----------------------|-------------------|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | | | | | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | | | | | |
| | i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | No + 3-cell | | 3-cell + 3-cell | | 3-cell + 6-cell | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | | | | Non-touch | | 3.58 lb / 1.63 kg | | 3.81 lb / 1.73 kg | | 4.21 lb / 1.91 kg | |
| | i3-5010U | | 2.1 GHz | - | | | | Multi-touch | | 3.89 lb / 1.76 kg | | 4.11 lb / 1.87 kg | | 4.52 lb / 2.05 kg | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | | | | Case material | | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | | | | 4MB | Smart card reader | Optional: Smart card reader | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | Media reader | | | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | |
| Optical | None | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro mode) or I218-LM (vPro mode) | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Max battery life ¹⁰ | Models | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: | ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | | | AC adapter | 3-cell + 3-cell | | | | 3-cell + 6-cell 48Wh | | 3-cell + 6-cell 72Wh | | |
| | 7265 ac+BT: | Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Battery life | | 10.08 hr | | 14.78 hr | | 19.78 hr | | |
| WWAN (optional) | Upg: | Wireless WAN upgradable | | | | Preload | Win8.1 / 10 DG Win7: | | | | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | |
| | EM7345: | Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Win8.1 64: | | | | Windows 8.1 64-bit | | | | |
| | | | | | | | Win8.1 P64: | | | | Windows 8.1 Pro 64-bit | | | | |
| | | | | | | | Win10 P64: | | | | Windows 10 Pro 64 | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | Limited warranty ¹² | | | | | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | |

See footnotes for more detailed information

(CB2-2) © Lenovo

ThinkPad T450 20BV (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Multi-Display touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20BV005EUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BV005PUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BV005QUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" FHD No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BV005JUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20BV005MUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20BV005SUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" HD+ MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BV005KUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BV005NUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BV005RUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|-----------------|---------------------|-------|--------------|-----------------|----------------------|----------------------|--------------|----------|------------|----------|---------|---------|----------|---------|---|----------|---------|---------|----------|---------|---------|----------|---------|-------|-----|----------|---------|---------|---------------------|--|--|--|--|--------|-------------|-----------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|--|-------------|-------------------|-------------------|-------------------|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4030U</td> <td rowspan="6">2</td> <td>1.9 GHz</td> <td>-</td> <td rowspan="5">3MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i5-4300U</td> <td>1.9 GHz</td> <td>2.9 GHz</td> </tr> <tr> <td>i3-5010U</td> <td>2.1 GHz</td> <td>-</td> </tr> <tr> <td>i5-5200U</td> <td>2.2 GHz</td> <td>2.7 GHz</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> </tr> <tr> <td>i7-5500U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td rowspan="2">4MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | i5-4300U | 1.9 GHz | 2.9 GHz | i3-5010U | 2.1 GHz | - | i5-5200U | 2.2 GHz | 2.7 GHz | i5-5300U | 2.3 GHz | 2.9 GHz | i7-5500U | 2.4 GHz | 3 GHz | 4MB | i7-5600U | 2.6 GHz | 3.2 GHz | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>3.58 lb / 1.63 kg</td> <td>3.81 lb / 1.73 kg</td> <td>4.21 lb / 1.91 kg</td> <td></td> </tr> <tr> <td>Multi-touch</td> <td>3.89 lb / 1.76 kg</td> <td>4.11 lb / 1.87 kg</td> <td>4.52 lb / 2.05 kg</td> <td></td> </tr> </tbody> </table> | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | 3-cell + 6-cell | Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | | Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5010U | | 2.1 GHz | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | 3.2 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Single-sided M.2 SSD, via M.2 card slot | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | None | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.08 hr</td> <td>14.78 hr</td> <td>19.78 hr</td> </tr> </tbody> </table> | | | | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro mode) or I218-LM (vPro mode) | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(CB2-8) © Lenovo

ThinkPad T450 20BU

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|-------------|-----------|------|----------|--------|---------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20BU0000US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU0006US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU0009US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU000AUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU000CUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU000GUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU000DUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU000HUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BU000C4US | i5-5200U | No | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20BU000C5US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20BU000C6US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BU000C7US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BU000C8US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BU000CRUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BU000CTUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BU000CWUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BU000CPUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" HD+ | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|--|----------------|---------------------|--------|-----------------|----------------------|----------------------|--------------|----------|----------|------------|----------|---------|---------|----------|---------|---|----------|---------|---------|----------|---------|---------|----------|---------|-------|----------|--|---------|---------|-----|--|---------------------|---|--|--|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5010U | | 2.1 GHz | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.08 hr</td> <td>14.78 hr</td> <td>19.78 hr</td> </tr> </tbody> </table> | | | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ThinkPad T450 20BU (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Multi-Display | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Ann date (m/y) | |
|------------|-----------|------|----------|--------|---------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|------------|----------------------|----------------|-------|
| 20BU0008US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | |
|-------------------|---|------------|--|-----------------------------|-------|--------------|--------------------------------|--|--------------------|-------------------|---|-------------------|------------------------|-------------------|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | | | | | | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | | | | | |
| | i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | No + 3-cell | | 3-cell + 3-cell | | 3-cell + 6-cell | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | | | | Non-touch | | 3.58 lb / 1.63 kg | | 3.81 lb / 1.73 kg | | 4.21 lb / 1.91 kg | |
| | i3-5010U | | 2.1 GHz | - | | | | Multi-touch | | 3.89 lb / 1.76 kg | | 4.11 lb / 1.87 kg | | 4.52 lb / 2.05 kg | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | | | | Case material | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | | | | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | Smart card reader | | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | Optional: Smart card reader | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | |
| Optical | None | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro mode) or I218-LM (vPro mode) | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable | | EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | Max battery life ¹⁰ | Models | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | |
| | | | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | |
| | | | | | | | Win8.1 64: | | Windows 8.1 64-bit | | Win8.1 P64: | | Windows 8.1 Pro 64-bit | | |
| | | | | | | | Win10 P64: | | Windows 10 Pro 64 | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | |
| | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T450 20BU (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Multi-Display touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20BU00CNUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BU00CSUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" FHD No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BU00CUUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BU00CMUS | i7-5600U | vPro | HD 5500 | 8GBx2 | 14" HD+ MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BU00CQUS | i7-5600U | vPro | HD 5500 | 4GBx1 | 14" HD+ No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BU00CVUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|-----------------|---------------------|----------------------|----------------------|--------------|----------|----------|----------|-----|------------|----------|---------|---------|----------|---------|---|----------|---------|---------|----------|---------|---------|----------|---------|-------|-----|----------|---------|---------|---------------------|--|--------|-------------|-----------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|--|-------------|-------------------|-------------------|-------------------|--|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5010U | | 2.1 GHz | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro mode) or I218-LM (vPro mode) | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.08 hr</td> <td>14.78 hr</td> <td>19.78 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(CB2-9) © Lenovo

ThinkPad T450 20BU (Onsite)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Multi-Display touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) | | |
|------------|-----------|------|----------|--------|---------------------|---------|----------------|------------------|------------|----------|-------------------|--------|-------------------|---------------------|-------------------------|----------------------|---------|----------------------|----------|----------------|-----|-------|
| 20BU0002US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20BU0003US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20BU0005US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20BU000BUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20BU000EUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" HD+ | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20BU000FUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20BU0001US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20BU0007US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|----------------|---------------------|----------------------|----------------------|--------------|----------|----------|----------|-----|------------|----------|---------|---------|----------|---------|---|----------|---------|---------|----------|---------|---------|----------|---------|-------|-----|----------|---------|---------|---------------------|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | 1.9 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5010U | | 2.1 GHz | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.58 lb / 1.63 kg | 3.81 lb / 1.73 kg | 4.21 lb / 1.91 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.89 lb / 1.76 kg | 4.11 lb / 1.87 kg | 4.52 lb / 2.05 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro mode) or I218-LM (vPro mode) | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.08 hr</td> <td>14.78 hr</td> <td>19.78 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.08 hr | 14.78 hr | 19.78 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T450 20BU (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Multi-Display | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam- era | Backlit keyboard | Finger- print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Ann date Global (m/y) | | |
|------------|-----------|------|----------|--------|---------------|----------------|---------|------------------|------|----------|-------------------|----------|------------------|----------------------|-------------------------|----------------------|------------|----------------------|-----------------------|-----|-------|
| 20BU0004US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" HD+ MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-onsite | OID | Yes | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450 Platform Specifications sheet](#)

| | | | | | | | | | | | | | |
|-------------------|---|------------|--|---------------------|-------|--|--|------------------------------------|--|------------------------------|--|-------------------|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor | | | | | Dimensions ³ | 14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | | | |
| | i3-4030U | 2 | 1.9 GHz | - | 3MB | DDR3L-1600 | | No + 3-cell | | 3-cell + 3-cell | | 3-cell + 6-cell | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | | | | 3.58 lb / 1.63 kg | | 3.81 lb / 1.73 kg | | 4.21 lb / 1.91 kg | |
| | i3-5010U | | 2.1 GHz | - | | | | 3.89 lb / 1.76 kg | | 4.11 lb / 1.87 kg | | 4.52 lb / 2.05 kg | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | | | | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | | | | | | | | | | |
| Case material | Display cover: GFRP (non-touch model) or CFRP (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | Smart card reader | Optional: Smart card reader | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5500 in processor | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | vPro (optional) | Intel vPro Technology | | | | | | |
| Optical | None | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro mode) or I218-LM (vPro mode) | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | Max battery life ¹⁰ | Models | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable | | EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | |
| | | | | | | Win8.1 64: Windows 8.1 64-bit | | Win8.1 P64: Windows 8.1 Pro 64-bit | | Win10 P64: Windows 10 Pro 64 | | | |
| | | | | | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460



Lenovo ThinkPad T460

ThinkPad T460 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | Processor Graphics | Smart card reader | <i>Optional:</i> Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------|-------------------|-----------------|---------------------|-------|--------------|---|--|---|-----------------|-----------------------------|-------------------|-------------------|--|-------------------------------|--------------------------|--------------------------|---------------------------------|---------------------------|-------------------------|-------------------|------------------------------|--|-------------------|------------------------------------|---|---------------|------------------------------------|---------|---------|---------|--|--|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | |
| | i3-6100U | 2 | 4 | 2.3 GHz | - | 3MB | DDR3L-1600 | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-6200U | | | 2.3 GHz | 2.8 GHz | 3MB | | Intel HD graphics 520 | WiGig dock (<i>opt</i>) | WiGig dock, coexists with WWAN | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-6300U | | | 2.4 GHz | 3.0 GHz | 3MB | | | Camera (<i>optional</i>) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | |
| | i7-6500U | | | 2.5 GHz | 3.1 GHz | 4MB | | | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | |
| | i7-6600U | | | 2.6 GHz | 3.4 GHz | 4MB | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA 2016 latest GPU, 2GB memory (discrete graphics is only available in US); supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 1920x1080@60Hz (HDMI) | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | <i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle | | | | | | | vPro (<i>optional</i>) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (<i>opt</i>) | In-cell touch, supports 10-finger gesture, 250 nits | | | | | | | Fingerprint reader | <i>Optional:</i> Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | Internal battery | <i>Optional:</i> Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I219-V (Jacksonville) <i>vPro model:</i> Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td><i>Integrated model</i></td> <td>10.8 hr</td> <td>15.3 hr</td> <td>10.4 hr</td> <td>15.1 hr</td> <td>20.2 hr</td> </tr> <tr> <td><i>discrete model</i></td> <td>10.5 hr</td> <td>15 hr</td> <td>10.1 hr</td> <td>14.7 hr</td> <td>19.7 hr</td> </tr> </tbody> </table> | | | | | | Models | 6-cell 48Wh | 6-cell 72Wh | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | <i>Integrated model</i> | 10.8 hr | 15.3 hr | 10.4 hr | 15.1 hr | 20.2 hr | <i>discrete model</i> | 10.5 hr | 15 hr | 10.1 hr | 14.7 hr | 19.7 hr | | |
| Models | 6-cell 48Wh | 6-cell 72Wh | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Integrated model</i> | 10.8 hr | 15.3 hr | 10.4 hr | 15.1 hr | 20.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>discrete model</i> | 10.5 hr | 15 hr | 10.1 hr | 14.7 hr | 19.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | <i>One of the following, configurable by model (WiGig can coexist with WWAN):</i> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card • WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | AC adapter | 45W or 65W Slim AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | Preload | <table border="0"> <tr> <td>Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</td> <td>Windows 10 Pro 64</td> </tr> <tr> <td>• Lenovo Solution Center</td> <td>• Lenovo Solution Center</td> </tr> <tr> <td>• ThinkVantage Product Recovery</td> <td>• Lenovo Companion</td> </tr> <tr> <td>• Rescue and Recovery™</td> <td>• Lenovo Setting</td> </tr> <tr> <td>• ThinkVantage System Update</td> <td>• Microsoft Office preloaded; purchase a product key to activate</td> </tr> <tr> <td>• Adobe® Reader®</td> <td>• McAfee® LiveSafe™ (30-day trial)</td> </tr> <tr> <td>• Microsoft® Office preloaded; purchase a product key to activate</td> <td></td> </tr> <tr> <td>• McAfee® LiveSafe™ (30-day trial)</td> <td></td> </tr> </table> | | | | | | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | Windows 10 Pro 64 | • Lenovo Solution Center | • Lenovo Solution Center | • ThinkVantage Product Recovery | • Lenovo Companion | • Rescue and Recovery™ | • Lenovo Setting | • ThinkVantage System Update | • Microsoft Office preloaded; purchase a product key to activate | • Adobe® Reader® | • McAfee® LiveSafe™ (30-day trial) | • Microsoft® Office preloaded; purchase a product key to activate | | • McAfee® LiveSafe™ (30-day trial) | | | | | |
| Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • Lenovo Solution Center | • Lenovo Solution Center | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • ThinkVantage Product Recovery | • Lenovo Companion | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • Rescue and Recovery™ | • Lenovo Setting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • ThinkVantage System Update | • Microsoft Office preloaded; purchase a product key to activate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • Adobe® Reader® | • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • Microsoft® Office preloaded; purchase a product key to activate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (<i>optional</i>) | <i>One of the following, configurable by model (WWAN can coexist with WiGig):</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (<i>opt</i>) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | <i>WxDxH:</i> 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td><i>Integrated Non-touch</i></td> <td>3.84 lb / 1.74 kg</td> <td>3.82 lb / 1.73 kg</td> <td>4.13 lb / 1.87 kg</td> </tr> <tr> <td><i>Integrated Multi-touch</i></td> <td>3.91 lb / 1.77 kg</td> <td>3.88 lb / 1.76 kg</td> <td>4.20 lb / 1.90 kg</td> </tr> <tr> <td><i>Discrete Non-touch</i></td> <td>3.86 lb / 1.75 kg</td> <td>3.90 lb / 1.77 kg</td> <td>4.22 lb / 1.91 kg</td> </tr> <tr> <td><i>Discrete Multi-touch</i></td> <td>3.93 lb / 1.78 kg</td> <td>3.97 lb / 1.80 kg</td> <td>4.28 lb / 1.94 kg</td> </tr> </tbody> </table> | | | | | | | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | <i>Integrated Non-touch</i> | 3.84 lb / 1.74 kg | 3.82 lb / 1.73 kg | 4.13 lb / 1.87 kg | <i>Integrated Multi-touch</i> | 3.91 lb / 1.77 kg | 3.88 lb / 1.76 kg | 4.20 lb / 1.90 kg | <i>Discrete Non-touch</i> | 3.86 lb / 1.75 kg | 3.90 lb / 1.77 kg | 4.22 lb / 1.91 kg | <i>Discrete Multi-touch</i> | 3.93 lb / 1.78 kg | 3.97 lb / 1.80 kg | 4.28 lb / 1.94 kg | Case material | Glass-Fiber Reinforced Plastic | | | | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Integrated Non-touch</i> | 3.84 lb / 1.74 kg | 3.82 lb / 1.73 kg | 4.13 lb / 1.87 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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ThinkPad T460 20FN (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Dock | Camera | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|------------------|------|----------|-------------------|------|--------|-------------------|---------------------|-------------------------|----------------------|---------------|----------------------|---------|----------------|
| 20FN002LUS | i7-6600U | vPro | HD 520 | 8GBx2 | 14.0" FHD IPS | MT | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002JUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002KUS | i7-6600U | vPro | HD 520 | 8GBx2 | 14.0" FHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002MUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002NUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | No | 500G 7200 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002QUS | i5-6300U | vPro | HD 520 | 4GBx1 | 14.0" FHD IPS | No | 500G 7200 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002UUS | i5-6300U | vPro | HD 520 | 4GBx1 | 14.0" FHD IPS | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002VUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN003EUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | No | 240G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN003FUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN003SUS | i5-6200U | No | HD 520 | 4GBx2 | 14.0" FHD IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN003TUS | i5-6300U | vPro | HD 520 | 4GBx2 | 14.0" FHD IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN003UUS | i5-6300U | vPro | HD 520 | 4GBx2 | 14.0" FHD IPS | No | 240G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN002HUS | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FN002SUS | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FN002TUS | i5-6300U | vPro | HD 520 | 4GBx1 | 14.0" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 01/16 |
| 20FN003CUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" HD | No | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN003DUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" HD | No | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FN003RUS | i5-6200U | No | HD 520 | 4GBx2 | 14.0" HD | No | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad T460 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|-----------------|---------------------|-------------|--------------|-----------------|-----------------|------------------|---------|---------|------------|----------|---------|----------------|---------|----------|---------|---------|---------|----------|---------|---------|-----|----------|---------|---------|-----|---|--------|-------------|-----------------|-----------------|----------------------|-------------------|-------------------|-------------------|------------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|----------------------|-------------------|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-6100U</td> <td rowspan="6">2</td> <td>2.3 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i5-6200U</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-6100U | 2 | 2.3 GHz | - | 3MB | DDR3L-1600 | i5-6200U | 2.3 GHz | 2.8 GHz | 3MB | i5-6300U | 2.4 GHz | 3.0 GHz | 3MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated Non-touch</td> <td>3.84 lb / 1.74 kg</td> <td>3.82 lb / 1.73 kg</td> <td>4.13 lb / 1.87 kg</td> </tr> <tr> <td>Integrated Multi-touch</td> <td>3.91 lb / 1.77 kg</td> <td>3.88 lb / 1.76 kg</td> <td>4.20 lb / 1.90 kg</td> </tr> <tr> <td>Discrete Non-touch</td> <td>3.86 lb / 1.75 kg</td> <td>3.90 lb / 1.77 kg</td> <td>4.22 lb / 1.91 kg</td> </tr> <tr> <td>Discrete Multi-touch</td> <td>3.93 lb / 1.78 kg</td> <td>3.97 lb / 1.80 kg</td> <td>4.28 lb / 1.94 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Integrated Non-touch | 3.84 lb / 1.74 kg | 3.82 lb / 1.73 kg | 4.13 lb / 1.87 kg | Integrated Multi-touch | 3.91 lb / 1.77 kg | 3.88 lb / 1.76 kg | 4.20 lb / 1.90 kg | Discrete Non-touch | 3.86 lb / 1.75 kg | 3.90 lb / 1.77 kg | 4.22 lb / 1.91 kg | Discrete Multi-touch | 3.93 lb / 1.78 kg | 3.97 lb / 1.80 kg | 4.28 lb / 1.94 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-6100U | 2 | 2.3 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Non-touch | 3.84 lb / 1.74 kg | 3.82 lb / 1.73 kg | 4.13 lb / 1.87 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Multi-touch | 3.91 lb / 1.77 kg | 3.88 lb / 1.76 kg | 4.20 lb / 1.90 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Discrete Multi-touch | 3.93 lb / 1.78 kg | 3.97 lb / 1.80 kg | 4.28 lb / 1.94 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA 2016 latest GPU, 2GB memory (discrete graphics is only available in US) | Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture, 250 nits | WiGig dock (opt) | WiGig dock, coexists with WWAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>10.8 hr</td> <td>15.3 hr</td> <td>10.4 hr</td> <td>15.1 hr</td> <td>20.2 hr</td> </tr> <tr> <td>discrete model</td> <td>10.5 hr</td> <td>15 hr</td> <td>10.1 hr</td> <td>14.7 hr</td> <td>19.7 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 72Wh | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | Integrated model | 10.8 hr | 15.3 hr | 10.4 hr | 15.1 hr | 20.2 hr | discrete model | 10.5 hr | 15 hr | 10.1 hr | 14.7 hr | 19.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 72Wh | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated model | 10.8 hr | 15.3 hr | 10.4 hr | 15.1 hr | 20.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 10.5 hr | 15 hr | 10.1 hr | 14.7 hr | 19.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W or 65W Slim AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(CB3-1) © Lenovo

ThinkPad T460 20FN (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Dock | Camera | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|------------------|------|----------|-------------------|------|--------|-------------------|---------------------|-------------------------|----------------------|-----------|----------------------|---------|----------------|
| 20FN002PUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | MT | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FN002RUS | i7-6600U | vPro | HD 520 | 8GBx2 | 14.0" FHD IPS | MT | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad T460 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|--|--|-----------------|---------------------|-------------|--------------|-----------------|-----------------|------------------|---------|---------|------------|----------|---------|----------------|---------|----------|---------|---------|---------|----------|---------|---------|-----|----------|---------|---------|-----|---|--------|-------------|-----------------|-----------------|----------------------|-------------------|-------------------|-------------------|------------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|----------------------|-------------------|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-6100U</td> <td rowspan="6">2</td> <td>2.3 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i5-6200U</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-6100U | 2 | 2.3 GHz | - | 3MB | DDR3L-1600 | i5-6200U | 2.3 GHz | 2.8 GHz | 3MB | i5-6300U | 2.4 GHz | 3.0 GHz | 3MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated Non-touch</td> <td>3.84 lb / 1.74 kg</td> <td>3.82 lb / 1.73 kg</td> <td>4.13 lb / 1.87 kg</td> </tr> <tr> <td>Integrated Multi-touch</td> <td>3.91 lb / 1.77 kg</td> <td>3.88 lb / 1.76 kg</td> <td>4.20 lb / 1.90 kg</td> </tr> <tr> <td>Discrete Non-touch</td> <td>3.86 lb / 1.75 kg</td> <td>3.90 lb / 1.77 kg</td> <td>4.22 lb / 1.91 kg</td> </tr> <tr> <td>Discrete Multi-touch</td> <td>3.93 lb / 1.78 kg</td> <td>3.97 lb / 1.80 kg</td> <td>4.28 lb / 1.94 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Integrated Non-touch | 3.84 lb / 1.74 kg | 3.82 lb / 1.73 kg | 4.13 lb / 1.87 kg | Integrated Multi-touch | 3.91 lb / 1.77 kg | 3.88 lb / 1.76 kg | 4.20 lb / 1.90 kg | Discrete Non-touch | 3.86 lb / 1.75 kg | 3.90 lb / 1.77 kg | 4.22 lb / 1.91 kg | Discrete Multi-touch | 3.93 lb / 1.78 kg | 3.97 lb / 1.80 kg | 4.28 lb / 1.94 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-6100U | 2 | 2.3 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Non-touch | 3.84 lb / 1.74 kg | 3.82 lb / 1.73 kg | 4.13 lb / 1.87 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Multi-touch | 3.91 lb / 1.77 kg | 3.88 lb / 1.76 kg | 4.20 lb / 1.90 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Non-touch | 3.86 lb / 1.75 kg | 3.90 lb / 1.77 kg | 4.22 lb / 1.91 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Multi-touch | 3.93 lb / 1.78 kg | 3.97 lb / 1.80 kg | 4.28 lb / 1.94 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA 2016 latest GPU, 2GB memory (discrete graphics is only available in US) | Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 350:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture, 250 nits | WiGig dock (opt) | WiGig dock, coexists with WWAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>10.8 hr</td> <td>15.3 hr</td> <td>10.4 hr</td> <td>15.1 hr</td> <td>20.2 hr</td> </tr> <tr> <td>discrete model</td> <td>10.5 hr</td> <td>15 hr</td> <td>10.1 hr</td> <td>14.7 hr</td> <td>19.7 hr</td> </tr> </tbody> </table> | Models | 6-cell 48Wh | 6-cell 72Wh | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | Integrated model | 10.8 hr | 15.3 hr | 10.4 hr | 15.1 hr | 20.2 hr | discrete model | 10.5 hr | 15 hr | 10.1 hr | 14.7 hr | 19.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell 48Wh | 6-cell 72Wh | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated model | 10.8 hr | 15.3 hr | 10.4 hr | 15.1 hr | 20.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 10.5 hr | 15 hr | 10.1 hr | 14.7 hr | 19.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W or 65W Slim AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(CB3-2) © Lenovo



Lenovo® ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p



Lenovo ThinkPad T440p

ThinkPad T440p Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | |
|--|---|--|--------------|----------------|---------------------|-------|------------------|-------------------------------|--|
| Positioning | <i>Mainstream performance; two spindles</i> | | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack |
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | Chipset | Mobile Intel QM87 Express Chipset |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | |
| | i3-4000M | 2 | 4 | 2.4 GHz | - | 3MB | DDR3L-1600 | Intel HD Graphics 4600 | |
| | i3-4100M | | | 2.5 GHz | - | 3MB | | | |
| | i5-4200M | | | 2.5 GHz | 3.1 GHz | 3MB | | | |
| | i5-4210M | | | 2.6 GHz | 3.2 GHz | 3MB | | | |
| | i5-4300M | | | 2.6 GHz | 3.3 GHz | 3MB | | | |
| | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | | | | | |
| | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | | | | | |
| | i7-4700MQ | 4 | 8 | 2.4 GHz | 3.4 GHz | 6MB | | | |
| | i7-4710MQ | | | 2.5 GHz | 3.5 GHz | 6MB | | | |
| | i7-4800MQ | | | 2.7 GHz | 3.7 GHz | 6MB | | | |
| | i7-4810MQ | | | 2.8 GHz | 3.8 GHz | 6MB | | | |
| | i7-4900MQ | | | 2.8 GHz | 3.8 GHz | 8MB | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | Smart card reader | <i>Optional:</i> Smart card reader |
| Optical Ultrabay | DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access | | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| Storage | <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive (HDD) / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ | | | | | | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| M.2 SSD | <i>All:</i> removable, upgradable, supports the second disk, Shock Mounted <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | WWAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS | | | | | | | WWAN (optional) | <i>One of the following, configurable by model (mutually exclusive with M.2 SSD):</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | SIM card (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider |
| Graphics | Intel HD Graphics 4600 in processor only, or Intel HD Graphics 4600 in processor and NVIDIA GeForce® GT 730M , PCI Express® x8, 1GB memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; <i>Max resolution:</i> 1920x1200@60Hz (VGA); 3840x2160@60Hz (DP via mDP cable) | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter |
| Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) |
| ThinkLight™ | None | | | | | | | NFC | <i>Optional:</i> Near Field Communication |
| Dimensions ³ Weight ² | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole |
| | <i>Models</i> | <i>6-cell</i> | | | | | <i>9-cell</i> | | |
| | <i>Integrated</i> | 4.70 lb / 2.14kg | | | | | 4.92 lb / 2.23kg | | |
| | <i>Optimus</i> | 4.77 lb / 2.16kg | | | | | 5.10 lb / 2.31kg | | |
| Case material | <i>Display cover:</i> Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Carbon-Fiber Reinforced Plastic | | | | | | | Security chip vPro (optional) | Intel vPro Technology |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | Fingerprint reader | <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor |
| Max battery life ¹⁰ | <i>Models</i> | <i>6-cell</i> | | | | | <i>9-cell</i> | | |
| | <i>Integrated</i> | 7.4 hr | | | | | 13.2 hr | | |
| | <i>Optimus</i> | 7.2 hr | | | | | 12.7 hr | | |
| AC adapter | <i>Models</i> | <i>dual-core</i> | | | | | <i>quad-core</i> | | |
| | <i>Integrated</i> | 65-watt | | | | | 90-watt | | |
| | <i>Optimus</i> | 90-watt | | | | | 135-watt | | |
| | | Limited warranty ¹² <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | |
| | | Preload Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Cloud Storage by SugarSync PC Device Stage Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) Cyberlink PowerDVD (DVD±RW) Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) | | | | | | | |
| | | Mil-Spec test MIL-STD-810G military certification | | | | | | | |
| | | Environment EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | |

ThinkPad T440p 20AN (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|-----------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------------|----------------------|--------|----------------|
| 20AN0069US | i5-4200M | No | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 1-depot | No | 10/13 |
| 20AN006AUS | i5-4300M | No | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 1-depot | No | 10/13 |
| 20AN006BUS | i5-4300M | No | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 1-depot | No | 10/13 |
| 20AN006CUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006DUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006EUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006FUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006GUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006HUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006JUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006KUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN00DEUS | i5-4210M | No | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | 720p | None | None | None | 6 | 65W | Win8.1 DG Win7 | 1-depot | No | 03/15 |
| 20AN00EJUS | i5-4210M | No | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | 720p | None | None | None | 6 | 65W | Win10 DG Win7 | 1-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|---|-----|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|--------------------------------|--------|--------|------------|--------|---------|---------|--------|---------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | WLAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

ThinkPad T440p 20AN (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------|-----------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|-----------|----------------------|--------|----------------|
| 20AN00F3US | i5-4210M | No | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | 720p | None | None | None | 6 | 65W | Win10 P64 | 1-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|-----------------|--|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|--|--|--|--|---|--------------------------------|--------|--------|--------|--------|--------|------------|--------|---------|---------|--------|---------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | 4 | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Max battery life ¹⁰ | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay Storage | One modular bay for removable devices (right side, cold swap), 9.5mm high Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(OA1-11) © Lenovo

ThinkPad T440p 20AN (Optimus) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|-----------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------------|----------------------|--------|----------------|
| 20AN00DBUS | i7-4600M | vPro | GT 730M | 8GBx1 | 14" FHD IPS | 512G SSD | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG Win7 | 3-depot | No | 10/14 |
| 20AN00DCUS | i7-4600M | vPro | GT 730M | 8GBx1 | 14" FHD IPS | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG Win7 | 3-depot | No | 10/14 |
| 20AN006LUS | i7-4600M | vPro | GT 730M | 8GBx1 | 14" FHD IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006MUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN006NUS | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AN007HUS | i7-4600M | vPro | GT 730M | 4GBx2 | 14" HD+ | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AN007JUS | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AN0096US | i7-4600M | vPro | GT 730M | 8GBx1 | 14" HD+ | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 01/14 |
| 20AN009CUS | i7-4600M | vPro | GT 730M | 8GBx1 | 14" HD+ | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 01/14 |
| 20AN00ANUS | i7-4700MQ | No | GT 730M | 8GBx1 | 14" HD+ | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 135W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20AN00APUS | i5-4300M | vPro | GT 730M | 8GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20AN00DFUS | i7-4710MQ | No | GT 730M | 8GBx1 | 14" HD+ | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 9 | 135W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20AN00EGUS | i7-4600M | vPro | GT 730M | 8GBx1 | 14" HD+ | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20AN00EHUS | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win10 DG Win7 | 3-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|---|-----|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|--|--------------------------------|--------|--------|------------|--------|---------|---------|--------|---------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | 4 | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | WLAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

ThinkPad T440p 20AN (Optimus) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------|---------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|-----------|----------------------|--------|----------------|
| 20AN00F2US | i7-4600M | vPro | GT 730M | 8GBx1 | 14" HD+ | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win10 P64 | 3-depot | No | 09/15 |
| 20AN00F4US | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| | | | | | | | | | | |
|--|---|------------|----------------|---------------------|-------|--------------|--|--|--------|---------|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Battery type Max battery life ¹⁰ | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | Models | 6-cell | 9-cell |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | Integrated | 7.4 hr | 13.2 hr |
| | i3-4100M | | 2.5 GHz | - | 3MB | | | Optimus | 7.2 hr | 12.7 hr |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | |
| | i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | |
| | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | |
| | i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | |
| i7-4710MQ | 2.5 GHz | | 3.5 GHz | 6MB | | | | | | |
| i7-4800MQ | 2.7 GHz | | 3.7 GHz | 6MB | | | | | | |
| i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | |
| i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | |
| Optical Ultrabay Storage | DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | |
| M.2 SSD | | | | | | | Chipset | Mobile Intel QM87 Express Chipset | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | | Smart card reader | Optional: Smart card reader | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | | | | | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | |
| Dimensions ³ Weight ² | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | |
| | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | |
| | | | | | | | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | |
| | | | | | | | NFC | Optional: Near Field Communication | | |
| | | | | | | | Security chip vPro (optional) | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology | | |
| | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | |
| | | | | | | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | |
| | | | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | |

See footnotes for more detailed information

(OA1-12) © Lenovo

ThinkPad T440p 20AW

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|-----------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------------|----------------------|--------|----------------|
| 20AW0090US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 6 | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AW0091US | i5-4300M | vPro | HD 4600 | 8GBx1 | 14" HD+ | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 6 | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AW004BUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AW004DUS | i5-4300M | vPro | HD 4600 | 4GBx2 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AW004HUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AW004JUS | i5-4300M | vPro | HD 4600 | 4GBx2 | 14" FHD IPS | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AW004KUS | i5-4300M | vPro | HD 4600 | 4GBx2 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|---------|---|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|--------------------------------|--------|--------|------------|--------|---------|---------|--------|---------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4000M</td> <td rowspan="4">2</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="12">DDR3L-1600</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td rowspan="4">4</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4700MQ</td> <td>2.4 GHz</td> <td>3.4 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4710MQ</td> <td rowspan="4">4</td> <td>2.5 GHz</td> <td>3.5 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4800MQ</td> <td>2.7 GHz</td> <td>3.7 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4810MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4900MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 4 | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | <table border="1"> <thead> <tr> <th>Max battery life¹⁰</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7.4 hr</td> <td>13.2 hr</td> </tr> <tr> <td>Optimus</td> <td>7.2 hr</td> <td>12.7 hr</td> </tr> </tbody> </table> | Max battery life ¹⁰ | 6-cell | 9-cell | Integrated | 7.4 hr | 13.2 hr | Optimus | 7.2 hr | 12.7 hr |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | 4 | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(OA1-3) © Lenovo

ThinkPad T440p 20AW (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|-----------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------|----------------------|--------|----------------|
| 20AW0000US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW0001US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW0005US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW0007US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW0008US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000CUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000DUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000HUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 14" FHD IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000KUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000MUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000QUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|---------|---|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|---|--------------------------------|--------|--------|--------|--------|--------|------------|--------|---------|---------|--------|---------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4000M</td> <td rowspan="5">2</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="11">DDR3L-1600</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4700MQ</td> <td rowspan="5">4</td> <td>2.4 GHz</td> <td>3.4 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4710MQ</td> <td>2.5 GHz</td> <td>3.5 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4800MQ</td> <td>2.7 GHz</td> <td>3.7 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4810MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4900MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | i7-4700MQ | 4 | 2.4 GHz | 3.4 GHz | 6MB | i7-4710MQ | 2.5 GHz | 3.5 GHz | 6MB | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | <table border="1"> <thead> <tr> <th>Max battery life¹⁰</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Models</td> <td>6-cell</td> <td>9-cell</td> </tr> <tr> <td>Integrated</td> <td>7.4 hr</td> <td>13.2 hr</td> </tr> <tr> <td>Optimus</td> <td>7.2 hr</td> <td>12.7 hr</td> </tr> </tbody> </table> | Max battery life ¹⁰ | 6-cell | 9-cell | Models | 6-cell | 9-cell | Integrated | 7.4 hr | 13.2 hr | Optimus | 7.2 hr | 12.7 hr |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | 4 | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T440p 20AW (Optimus)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|-----------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------------|----------------------|--------|----------------|
| 20AW008YUS | i7-4600M | vPro | GT 730M | 8GBx1 | 14" HD+ | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AW0092US | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AW0094US | i7-4600M | vPro | GT 730M | 8GBx1 | 14" HD+ | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AW004AUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AW004CUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AW004FUS | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Battery type | | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | |
|-------------------------|---|------------------|----------------|---------------------|-------------------|--------------------------------|--------------------------------|--|---|--|---|--|------------------|------------------|---------------|--------|------------|------------------|------------------|--|------------------|------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Max battery life ¹⁰ | | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7.4 hr</td> <td>13.2 hr</td> </tr> <tr> <td>Optimus</td> <td>7.2 hr</td> <td>12.7 hr</td> </tr> </tbody> </table> | | | Models | 6-cell | 9-cell | Integrated | 7.4 hr | 13.2 hr | Optimus | 7.2 hr | 12.7 hr | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | AC adapter | | | | | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | |
| | i3-4100M | | 2.5 GHz | - | 3MB | | Keyboard | | | | | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | UltraNav™ | | | | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | |
| | i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | Chipset | | | | | Mobile Intel QM87 Express Chipset | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | Smart card reader | | | | | Optional: Smart card reader | | | | | | | | | | |
| | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | Media reader | | | | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | |
| | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | Ports | | | | | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | |
| | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | WLAN ⁴ | | | | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | |
| | i7-4710MQ | 2.5 GHz | 3.5 GHz | 6MB | Memory | | | | | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | | | |
| | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | Optical | | | | | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | | | | | | | |
| | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | Ultrabay | | | | | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | | | | | | | |
| | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | Storage | | | | | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | M.2 SSD | | | | | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | Widescreen display | | | | | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | Camera (optional) | | | | | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | Graphics | | | | | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | Dimensions ³ | | | | | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | Weight ² | | | | | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | | | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Case material | | | | | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | Audio support | | | | | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | Security | | | | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | | | | | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | Security chip | | | | | Trusted Platform Module, TCG 1.2-compliant | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | Ethernet | | | | | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | NFC | | | | | Optional: Near Field Communication | | | | | | | | | | | |
| | | | | | | Fingerprint reader | | | | | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | |
| | | | | | | Preload | | | | | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | |
| | | | | | | Limited warranty ¹² | | | | | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T440p 20AW (Optimus) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|-----------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------|----------------------|--------|----------------|
| 20AW0006US | i7-4600M | vPro | GT 730M | 4GBx1 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW0009US | i7-4600M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000AUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" FHD IPS | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000GUS | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AW000RUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" FHD IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| | | | | | | | | | | |
|--|---|------------|----------------|---------------------|-------|--------------|--|--|--------|---------|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Battery type Max battery life ¹⁰ | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | Models | 6-cell | 9-cell |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | Integrated | 7.4 hr | 13.2 hr |
| | i3-4100M | | 2.5 GHz | - | 3MB | | | Optimus | 7.2 hr | 12.7 hr |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | |
| | i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | |
| | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | | | | | | |
| | i7-4700MQ | 4 | 2.4 GHz | 3.4 GHz | 6MB | | | | | |
| i7-4710MQ | 2.5 GHz | | 3.5 GHz | 6MB | | | | | | |
| i7-4800MQ | 2.7 GHz | | 3.7 GHz | 6MB | | | | | | |
| i7-4810MQ | 2.8 GHz | | 3.8 GHz | 6MB | | | | | | |
| i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | |
| Optical Ultrabay Storage | DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | |
| M.2 SSD | | | | | | | Chipset | Mobile Intel QM87 Express Chipset | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | | Smart card reader | Optional: Smart card reader | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | | | | | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | |
| Dimensions ³ Weight ² | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | |
| | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | |
| | | | | | | | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | |
| | | | | | | | NFC | Optional: Near Field Communication | | |
| | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | |
| | | | | | | | vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | | |
| | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | |
| | | | | | | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | |
| | | | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(OA1-6) © Lenovo

ThinkPad T440p 20AW (Onsite)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|---------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|--------------|----------------------|--------|----------------|
| 20AW0046US | i5-4300M | vPro | HD 4600 | 4GBx2 | 14" FHD IPS | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20AW0048US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20AW0049US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20AW004LUS | i5-4300M | vPro | HD 4600 | 4GBx2 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20AW004MUS | i5-4300M | vPro | HD 4600 | 4GBx2 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|---------|---|------------|----------|---------|---|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|---|--------------------------------|--------|--------|--------|--------|--------|------------|--------|---------|---------|--------|---------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4000M</td> <td rowspan="4">2</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="10">DDR3L-1600</td> </tr> <tr> <td>i3-4100M</td> <td>2.5 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210M</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="6">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4700MQ</td> <td>2.4 GHz</td> <td>3.4 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4710MQ</td> <td>2.5 GHz</td> <td>3.5 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4800MQ</td> <td>2.7 GHz</td> <td>3.7 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4810MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4900MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | i3-4100M | 2.5 GHz | - | 3MB | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4210M | 2.6 GHz | 3.2 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | i7-4710MQ | 2.5 GHz | 3.5 GHz | 6MB | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | <table border="1"> <thead> <tr> <th>Max battery life¹⁰</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Models</td> <td>6-cell</td> <td>9-cell</td> </tr> <tr> <td>Integrated</td> <td>7.4 hr</td> <td>13.2 hr</td> </tr> <tr> <td>Optimus</td> <td>7.2 hr</td> <td>12.7 hr</td> </tr> </tbody> </table> | Max battery life ¹⁰ | 6-cell | 9-cell | Models | 6-cell | 9-cell | Integrated | 7.4 hr | 13.2 hr | Optimus | 7.2 hr | 12.7 hr |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4100M | | 2.5 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Smart card reader | Optional: Smart card reader | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | SIM card (optional) | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(OA1-7) © Lenovo

ThinkPad T440p 20AW (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------|-----------------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------|----------------------|--------|----------------|
| 20AW0002US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AW0003US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AW0004US | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AW000EUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AW000JUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 14" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AW000LUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Battery type | | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | |
|-------------------------|---|------------------|----------------|---------------------|-------------------|--------------------------------|--------------------------------|--|---|--|---|--|------------------|------------------|---------------|--------|------------|------------------|------------------|--|------------------|------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Max battery life ¹⁰ | | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7.4 hr</td> <td>13.2 hr</td> </tr> <tr> <td>Optimus</td> <td>7.2 hr</td> <td>12.7 hr</td> </tr> </tbody> </table> | | | Models | 6-cell | 9-cell | Integrated | 7.4 hr | 13.2 hr | Optimus | 7.2 hr | 12.7 hr | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | AC adapter | | | | | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | |
| | i3-4100M | | 2.5 GHz | - | 3MB | | Keyboard | | | | | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | UltraNav™ | | | | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | |
| | i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | Chipset | | | | | Mobile Intel QM87 Express Chipset | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | Smart card reader | | | | | Optional: Smart card reader | | | | | | | | | | |
| | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | Media reader | | | | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | |
| | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | Ports | | | | | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | |
| | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | WLAN ⁴ | | | | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | |
| | i7-4710MQ | 2.5 GHz | 3.5 GHz | 6MB | Memory | | | | | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | | | |
| | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | Optical | | | | | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | | | | | | | |
| | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | Ultrabay | | | | | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | | | | | | | |
| | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | Storage | | | | | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | M.2 SSD | | | | | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | Widescreen display | | | | | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | Camera (optional) | | | | | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | Graphics | | | | | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | Dimensions ³ | | | | | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | Weight ² | | | | | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | | | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Case material | | | | | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | Audio support | | | | | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | Security | | | | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>4.70 lb / 2.14kg</td> <td>4.92 lb / 2.23kg</td> </tr> <tr> <td>Optimus</td> <td>4.77 lb / 2.16kg</td> <td>5.10 lb / 2.31kg</td> </tr> </tbody> </table> | | | | | Models | 6-cell | 9-cell | Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | Security chip | | | | | Trusted Platform Module, TCG 1.2-compliant | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | |
| Integrated | 4.70 lb / 2.14kg | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | | | | | | |
| Optimus | 4.77 lb / 2.16kg | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | Ethernet | | | | | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | NFC | | | | | Optional: Near Field Communication | | | | | | | | | | | |
| | | | | | | Security chip vPro (optional) | | | | | Intel vPro Technology | | | | | | | | | | | |
| | | | | | | Fingerprint reader | | | | | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | |
| | | | | | | Preload | | | | | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | |
| | | | | | | | | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit | | | | | | | | | | | |
| | | | | | | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | | | | | | | |
| | | | | | | | | | | | Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | |
| | | | | | | Limited warranty ¹² | | | | | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T440p 20AW (Optimus) - Onsite

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-------------|-----------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|--------------|----------------------|--------|----------------|
| 20AW0047US | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20AW004EUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |
| 20AW004GUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" FHD IPS | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-onsite | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Battery type | | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | |
|-------------------------|--|------------|------------------|---------------------|------------------|--------------|--|---|--|--|--|--------|--------|--------|------------|--------|---------|---------|--------|---------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Max battery life ¹⁰ | | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7.4 hr</td> <td>13.2 hr</td> </tr> <tr> <td>Optimus</td> <td>7.2 hr</td> <td>12.7 hr</td> </tr> </tbody> </table> | | | Models | 6-cell | 9-cell | Integrated | 7.4 hr | 13.2 hr | Optimus | 7.2 hr | 12.7 hr |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | AC adapter | | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | |
| | i3-4100M | | 2.5 GHz | - | 3MB | | Keyboard | | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | UltraNav™ | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | |
| | i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | Chipset | | Mobile Intel QM87 Express Chipset | | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | Smart card reader | | Optional: Smart card reader | | | | | | | | | | | |
| | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | |
| | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | Ports | | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | |
| | i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | |
| | i7-4710MQ | | 2.5 GHz | 3.5 GHz | 6MB | | WWAN (optional) | | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | |
| | i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | SIM card (optional) | | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | |
| | i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | Bluetooth™ | | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | |
| | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | Ethernet | | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | NFC | | Optional: Near Field Communication | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | Security | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | Security chip | | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | vPro (optional) | | Intel vPro Technology | | | | | | | | | | | |
| | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | | Fingerprint reader | | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | |
| | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Preload | | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Limited warranty ¹² | | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio | | | | | | | | | | | | | | | | | | | |
| | Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio | | | | | | | | | | | | | | | | | | | |
| | Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | | | | | | | | | | | | | | | |
| Weight ² | Models | | 6-cell | | 9-cell | | | | | | | | | | | | | | | |
| | Integrated | | 4.70 lb / 2.14kg | | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | |
| | Optimus | | 4.77 lb / 2.16kg | | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T440p 20AW (Optimus) - Onsite (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------|-----------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|----------------|----------------------|----------|----------------------|--------|----------------|
| 20AW000BUS | i7-4600M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AW000PUS | i5-4300M | vPro | GT 730M | 4GBx1 | 14" HD+ | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T440p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Battery type | | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | |
|-------------------------|--|------------|------------------|---------------------|------------------|--------------|--------------------------------|--|--|--|--|--------|--------|--------|------------|--------|---------|---------|--------|---------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Max battery life ¹⁰ | | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7.4 hr</td> <td>13.2 hr</td> </tr> <tr> <td>Optimus</td> <td>7.2 hr</td> <td>12.7 hr</td> </tr> </tbody> </table> | | | Models | 6-cell | 9-cell | Integrated | 7.4 hr | 13.2 hr | Optimus | 7.2 hr | 12.7 hr |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | |
| Integrated | 7.4 hr | 13.2 hr | | | | | | | | | | | | | | | | | | |
| Optimus | 7.2 hr | 12.7 hr | | | | | | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | AC adapter | | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | |
| | i3-4100M | | 2.5 GHz | - | 3MB | | Keyboard | | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | UltraNav™ | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | |
| | i5-4210M | | 2.6 GHz | 3.2 GHz | 3MB | | Chipset | | Mobile Intel QM87 Express Chipset | | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | Smart card reader | | Optional: Smart card reader | | | | | | | | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | |
| | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | Ports | | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | |
| | i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | |
| | i7-4710MQ | | 2.5 GHz | 3.5 GHz | 6MB | | WWAN (optional) | | Upg: Wireless WAN upgradable EM7345: Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS N5321: Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS | | | | | | | | | | | |
| | i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | SIM card (optional) | | Lenovo: Lenovo SIM, out-of-box service, pay-as-you-go, no contract required Select: User selectable, contract required with service provider | | | | | | | | | | | |
| | i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | Bluetooth™ | | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | |
| | i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | Ethernet | | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | NFC | | Optional: Near Field Communication | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | Security | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | Security chip | | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | vPro (optional) | | Intel vPro Technology | | | | | | | | | | | |
| | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | | Fingerprint reader | | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Preload | | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD (1366x768) , 200 nits, 300:1 contrast ratio | | | | | | Limited warranty ¹² | | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | |
| | Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 or 500:1 contrast ratio | | | | | | | | | | | | | | | | | | | |
| | Some: 14.0" (355mm) FHD (1920x1080) , 300 nits, 700:1 contrast ratio, IPS | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.2" x 9.02" x 1.10-1.18"; 335mm x 229.1mm x 27.9-29.95mm | | | | | | | | | | | | | | | | | | | |
| Weight ² | Models | | 6-cell | | 9-cell | | | | | | | | | | | | | | | |
| | Integrated | | 4.70 lb / 2.14kg | | 4.92 lb / 2.23kg | | | | | | | | | | | | | | | |
| | Optimus | | 4.77 lb / 2.16kg | | 5.10 lb / 2.31kg | | | | | | | | | | | | | | | |
| Case material | Top cover: Glass-Fiber Reinforced Plastic; Bottom: Carbon-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p



Lenovo ThinkPad T460p

ThinkPad T460p Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | | Smart card reader Media reader Ports Camera (optional) Audio support Keyboard UltraNav™ | Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack 6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | |
|-------------------|--|-------------------|--------------|----------------|---------------------|-------|--------------|---|---|-----------------------|---------|-------------|------------------|-------------------|-------------------|----------------|-------------------|-------------------|--------|--------|-------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | Processor Graphics | | | | | | | | | | | |
| | i5-6300HQ | 4 | 4 | 2.3 GHz | 3.2 GHz | 6MB | DDR4-2133 | | | Intel HD Graphics 530 | | | | | | | | | | | |
| | i5-6440HQ | | | 2.6 GHz | 3.5 GHz | | | | | | | | | | | | | | | | |
| | i7-6700HQ | | | 8 | 2.6 GHz | | | | | | 3.5 GHz | 6MB | | | | | | | | | |
| i7-6820HQ | 2.7 GHz | | | | 3.6 GHz | | | 8MB | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA 2016 latest GPU, 2GB memory; supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 4096x2304@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI) | | | | | | | Security Security chip ThinkEngine vPro (optional) Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures Intel vPro Technology Optional: Touch style fingerprint reader on the keyboard bezel | | | | | | | | | | | | |
| Chipset Memory | Mobile Intel QM170 Chipset 32GB max ⁷ / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets | | | | | | | Battery Max battery life ¹⁰ (MobileMark® 2014) | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>4.34 hr</td> <td>8.58 hr</td> <td>13 hr</td> </tr> <tr> <td>discrete model</td> <td>4.1 hr</td> <td>8.5 hr</td> <td>13 hr</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | Integrated model | 4.34 hr | 8.58 hr | 13 hr | discrete model | 4.1 hr | 8.5 hr | 13 hr |
| Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | |
| Integrated model | 4.34 hr | 8.58 hr | 13 hr | | | | | | | | | | | | | | | | | | |
| discrete model | 4.1 hr | 8.5 hr | 13 hr | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 or 800:1 contrast ratio, 160° viewing angle | | | | | | | AC adapter | 90W or 135W AC adapter | | | | | | | | | | | | |
| Multi-touch | None | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | Optical | None | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | WLAN ⁴ | One of the following, configurable by model: • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | WWAN (optional) | One of the following, configurable by model: • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | Dimensions ³ Weight ² | WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>3.99 lb / 1.81 kg</td> <td>4.70 lb / 2.13 kg</td> </tr> <tr> <td>discrete model</td> <td>4.04 lb / 1.83 kg</td> <td>4.75 lb / 2.15 kg</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell | Integrated model | 3.99 lb / 1.81 kg | 4.70 lb / 2.13 kg | discrete model | 4.04 lb / 1.83 kg | 4.75 lb / 2.15 kg | | | |
| Models | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | |
| Integrated model | 3.99 lb / 1.81 kg | 4.70 lb / 2.13 kg | | | | | | | | | | | | | | | | | | | |
| discrete model | 4.04 lb / 1.83 kg | 4.75 lb / 2.15 kg | | | | | | | | | | | | | | | | | | | |
| Case material | Display cover: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic; Bottom: Magnesium alloy | | | | | | | Limited warranty ¹² | One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| | Mil-Spec test | | | | | | | Environment | MIL-STD-810G military certification EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | |

ThinkPad T460p 20FW (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|----------------|------------------|------|----------|-------------------|--------|-------------------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20FW000SUS | i5-6440HQ | vPro | HD 530 | 8GBx1 | 14.0" FHD IPS | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3(23wh) | 90W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FW000UUS | i5-6440HQ | vPro | HD 530 | 8GBx1 | 14.0" FHD IPS | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 6(72wh) | 90W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FW000VUS | i5-6440HQ | vPro | HD 530 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 6(48wh) | 90W | Win10 DG Win7 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>3.99 lb / 1.81 kg</td> <td>4.70 lb / 2.13 kg</td> </tr> <tr> <td>discrete model</td> <td>4.04 lb / 1.83 kg</td> <td>4.75 lb / 2.15 kg</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell | Integrated model | 3.99 lb / 1.81 kg | 4.70 lb / 2.13 kg | discrete model | 4.04 lb / 1.83 kg | 4.75 lb / 2.15 kg | | | | | | | | | | | | | | | |
|-------------------|---|--|---|----------------|---------------------|-------------|------------------|-------------------|-------------------|----------------|-------------------|-------------------|-----------|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|---------------|--|
| Models | 3-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated model | 3.99 lb / 1.81 kg | 4.70 lb / 2.13 kg | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 4.04 lb / 1.83 kg | 4.75 lb / 2.15 kg | | | | | | | | | | | | | | | | | | | | | | | | | |
| Processor | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6300HQ</td> <td rowspan="4">4</td> <td>2.3 GHz</td> <td>3.2 GHz</td> <td>6MB</td> <td rowspan="4">DDR4-2133</td> </tr> <tr> <td>i5-6440HQ</td> <td>2.6 GHz</td> <td>3.5 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-6700HQ</td> <td>2.6 GHz</td> <td>3.5 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-6820HQ</td> <td>2.7 GHz</td> <td>3.6 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6300HQ | 4 | 2.3 GHz | 3.2 GHz | 6MB | DDR4-2133 | i5-6440HQ | 2.6 GHz | 3.5 GHz | 6MB | i7-6700HQ | 2.6 GHz | 3.5 GHz | 6MB | i7-6820HQ | 2.7 GHz | 3.6 GHz | 8MB | Case material | Display cover: PC/ABS plastic; Bottom: Magnesium alloy |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300HQ | 4 | 2.3 GHz | 3.2 GHz | 6MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | | | | |
| i5-6440HQ | | 2.6 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6700HQ | | 2.6 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA 2016 latest GPU, 2GB memory | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM170 Chipset | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700 / 800:1 contrast ratio, IPS | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-LM (Jacksonville) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | Fingerprint reader | Optional: Touch style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | Battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell</th> <th>6-cell 48Wh</th> <th>6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>4.34 hr</td> <td>8.58 hr</td> <td>13 hr</td> </tr> <tr> <td>discrete model</td> <td>4.1 hr</td> <td>8.5 hr</td> <td>13 hr</td> </tr> </tbody> </table> | Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | Integrated model | 4.34 hr | 8.58 hr | 13 hr | discrete model | 4.1 hr | 8.5 hr | 13 hr | | | | | | | | | | | | |
| Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated model | 4.34 hr | 8.58 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 4.1 hr | 8.5 hr | 13 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 90W or 135W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T460p 20FW (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|----------------|------------------|------|----------|-------------------|--------|-------------------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20FW002DUS | i5-6440HQ | vPro | HD 530 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | Smart | 720p | Backlit | Finger | 6(48wh) | 90W | Win10 P64 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad T460p Platform Specifications sheet](#)

| | | | | | | | | | | |
|-------------------|---|------------|----------------|---------------------|-------|--------------------------------|---|-------------------|-------------------|-------------|
| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ | WxDxH: 13.54" x 9.41" x 0.96"; 344mm x 239mm x 24.4mm | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Weight ² | Models | 3-cell | 6-cell | |
| | i5-6300HQ | 4 | 2.3 GHz | 3.2 GHz | 6MB | | Integrated model | 3.99 lb / 1.81 kg | 4.70 lb / 2.13 kg | |
| | i5-6440HQ | | 2.6 GHz | 3.5 GHz | 6MB | | discrete model | 4.04 lb / 1.83 kg | 4.75 lb / 2.15 kg | |
| | i7-6700HQ | | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | |
| | i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | |
| Graphics | Intel HD Graphics 530 in processor only, or Intel HD Graphics 530 in processor and NVIDIA 2016 latest GPU, 2GB memory | | | | | Case material | Display cover: PC/ABS plastic; Bottom: Magnesium alloy | | | |
| Chipset | Mobile Intel QM170 Chipset | | | | | Smart card reader | Optional: Smart card reader | | | |
| Memory | 32GB max ⁷ / 2133MHz DDR4, dual-channel capable, two DDR4 SO-DIMM sockets | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS | | | | | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | |
| Multi-touch | None | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | |
| | Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight | | | |
| | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad | | | |
| Optical | None | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| Ethernet | Intel Ethernet Connection I219-LM (Jacksonville) | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card | | | | | vPro (optional) | Intel vPro Technology | | | |
| Bluetooth™ | 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | Fingerprint reader | Optional: Touch style fingerprint reader on the keyboard bezel | | | |
| | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable | | | | | Max battery life ¹⁰ | Models | 3-cell | 6-cell 48Wh | 6-cell 72Wh |
| | EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | | | | | (MobileMark® 2014) | Integrated model | 4.34 hr | 8.58 hr | 13 hr |
| | ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | AC adapter | 90W or 135W AC adapter | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | |
| | | | | | | | Win10 P64: Windows 10 Pro 64 | | | |
| | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad T440s



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Lenovo ThinkPad T440s

ThinkPad T440s Platform Specifications

Product Specifications Reference (PSREF)

| Positioning | Premium Ultrabook™ or Thinbook; one spindle | | | | | | | | WLAN ⁴ | One of the following, configurable by model: <ul style="list-style-type: none"> ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------------------|----------------------|---------------------|-------|--------------|------------------------|--|--|---|------------------------|----------------------|-----------------|---------------------|------------|---------------|--------------------|----------|---------|---------|---------|---------|-----|------------|------------------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------------|---|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>i5-4200U</td> <td rowspan="4">2</td> <td rowspan="4">4</td> <td>1.6 GHz</td> <td>2.6 GHz</td> <td>3MB</td> <td rowspan="4">DDR3L-1600</td> <td rowspan="4">Intel HD graphics 4400</td> </tr> <tr> <td>i5-4210U</td> <td>1.7 GHz</td> <td>2.7 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300U</td> <td>1.9 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600U</td> <td>2.1 GHz</td> <td>3.3 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | i5-4200U | 2 | 4 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Intel HD graphics 4400 | i5-4210U | 1.7 GHz | 2.7 GHz | 3MB | i5-4300U | 1.9 GHz | 2.9 GHz | 3MB | i7-4600U | 2.1 GHz | 3.3 GHz | 4MB | WWAN (optional) | One of the following, configurable by model (mutually exclusive with M.2 SSD): <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200U | 2 | 4 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Intel HD graphics 4400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210U | | | 1.7 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600U | | | 2.1 GHz | 3.3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | | | SIM card (optional) | One of the following, configurable by model: <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | None <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | | Bluetooth™ Ethernet | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter <i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville) <i>Optional:</i> Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | <i>Some:</i> Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader <i>Some:</i> Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | | | NFC | <i>Optional:</i> Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS | | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture | | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | | Fingerprint reader | <i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 in processor only, or Intel HD Graphics 4400 in processor and NVIDIA GeForce® GT 730M, PCI Express® x8, 1GB memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; <i>Max external resolution:</i> 1920x1200@60Hz (VGA); 3840x2160@30Hz (DisplayPort via Mini DisplayPort cable on integrated models); 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable on optimus models) | | | | | | | | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center Lenovo Support ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Cloud Storage by SugarSync PC Device Stage Adobe® Reader® Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | <i>Some:</i> Windows 8 / 8.1 64-bit <i>Some:</i> Windows 8 / 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center Lenovo Support Lenovo Companion ThinkVantage System Update Lenovo Reach (Windows 8.1 model) Hightail - Metro (Windows 8.1 model) Lenovo Cloud Storage by SugarSync - Metro (Windows 8 model) Lenovo Cloud Storage by SugarSync (Windows 8 model) PC Device Stage AccuWeather Amazon Kindle Nitro Pro Evernote Skype Rara Streaming Norton Studio Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm 14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-MultiTouch</td> <td>3.5 lb / 1.59kg</td> <td>3.9 lb / 1.77kg</td> </tr> <tr> <td>MultiTouch</td> <td>3.9 lb / 1.76</td> <td>4.2 lb / 1.94kg</td> </tr> </tbody> </table> | | | | | | | | Models | 3-cell + 3-cell | 3-cell + 6-cell | Non-MultiTouch | 3.5 lb / 1.59kg | 3.9 lb / 1.77kg | MultiTouch | 3.9 lb / 1.76 | 4.2 lb / 1.94kg | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-MultiTouch | 3.5 lb / 1.59kg | 3.9 lb / 1.77kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MultiTouch | 3.9 lb / 1.76 | 4.2 lb / 1.94kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Hybrid Carbon-fiber reinforced plastic; <i>Bottom:</i> Magnesium alloy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Internal battery | Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 47.5Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>8.4 hr</td> <td>12.6 hr</td> <td>16.8 hr</td> </tr> <tr> <td>Optimus</td> <td>8.3 hr</td> <td>12.4 hr</td> <td>16.6 hr</td> </tr> </tbody> </table> | | | | | | | | Models | 3-cell + 3-cell | 3-cell + 6-cell 47.5Wh | 3-cell + 6-cell 72Wh | Integrated | 8.4 hr | 12.6 hr | 16.8 hr | Optimus | 8.3 hr | 12.4 hr | 16.6 hr | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 47.5Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 8.4 hr | 12.6 hr | 16.8 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 8.3 hr | 12.4 hr | 16.6 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 45-watt (integrated models only), 65-watt, or 65-watt Slim AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Smart card reader | <i>Optional:</i> Smart card reader, exclusive with M.2 SSD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | Environment | EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ThinkPad T440s 20AQ (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|------------------|--------------------|------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20AQ005NUS | i5-4200U | No | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg None | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 09/13 |
| 20AQ005PUS | i5-4200U | No | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg None | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AQ009GUS | i5-4300U | vPro | HD 4400 | 4+4GB 14" FHD IPS | 14" FHD IPS | No | 512G SSD | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 07/14 |
| 20AQ005QUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg None | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AQ005SUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" FHD IPS | 14" FHD IPS | No | 500G 7200 | 7260 ac+BT | Upg None | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AQ005TUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AQ005YUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" FHD IPS | 14" FHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AQ005VUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AQ006JUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AQ008FUS | i5-4300U | vPro | HD 4400 | 4+4GB 14" HD+ | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20AQ008GUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" FHD IPS | 14" FHD IPS | No | 500G 7200 Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20AQ009HUS | i7-4600U | vPro | HD 4400 | 4+4GB 14" FHD IPS | 14" FHD IPS | No | 512G SSD | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 07/14 |
| 20AQ005WUS | i7-4600U | vPro | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 09/13 |
| 20AQ005XUS | i7-4600U | vPro | HD 4400 | 4+0GB 14" HD+ | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AQ005YUS | i7-4600U | vPro | HD 4400 | 4+0GB 14" FHD IPS | 14" FHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20AQ006FUS | i7-4600U | vPro | HD 4400 | 4+4GB 14" FHD IPS | 14" FHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AQ006GUS | i7-4600U | vPro | HD 4400 | 4+4GB 14" FHD IPS | 14" FHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AQ006HUS | i7-4600U | vPro | HD 4400 | 4+4GB 14" FHD IPS | 14" FHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg None | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications sheet](#)

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|--------------------------------|---|-----------------|----------------|------------------------|-------|--|--|-------------------------------------|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Memory | 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | NFC | Optional: Near Field Communication | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm 14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | Non-MultiTouch | 3.5 lb / 1.59kg | | 3.9 lb / 1.77kg | | vPro (optional) | Intel vPro Technology | | | | | |
| | MultiTouch | 3.9 lb / 1.76kg | | 4.2 lb / 1.94kg | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Case material | Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| Internal battery | Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 64-bit | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | | | | | | |
| | Battery life | 8.4 hr | | 12.6 hr | | 16.8 hr | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |

See footnotes for more detailed information

(STG1-1) © Lenovo

ThinkPad T440s 20AQ (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit keyboard | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|------------------|---------------------|------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20AQ0071US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20AQ0074US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20AQ004EUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20AQ004FUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20AQ004GUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20AQ006DUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AQ006EUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AQ0072US | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20AQ0073US | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20AQ009JUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | MT | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 07/14 |
| 20AQ004HUS | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20AQ004JUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |
| 20AQ004KUS | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 09/13 |

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications sheet](#)

| | | | | | | | | |
|--------------------------------|---|-----------------|---|------------------------|-------|--|--|-------------------------------------|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| Memory | 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Dimensions ³ | 14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm | | 14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Weight ² | Models | 3-cell + 3-cell | | 3-cell + 6-cell | | vPro (optional) | Intel vPro Technology | |
| | Non-MultiTouch | 3.5 lb / 1.59kg | | 3.9 lb / 1.77kg | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | |
| | MultiTouch | 3.9 lb / 1.76kg | | 4.2 lb / 1.94kg | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | |
| Case material | Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | |
| Internal battery | Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | | |
| | Battery life | 8.4 hr | | 12.6 hr | | 16.8 hr | | |
| AC adapter | 45-watt AC adapter | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | |

See footnotes for more detailed information

(STG1-2) © Lenovo

ThinkPad T440s 20AR

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20AR006RUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AR006SUS | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AR003XUS | i5-4300U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR0040US | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR0042US | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR0043US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR0045US | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR0049US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR006TUS | i7-4600U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AR006UUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |
| 20AR002TUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR003YUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |
| 20AR0047US | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications sheet](#)

| | | | | | | | | | |
|--------------------------------|---|-----------------|-----------------|---------------------|-----------------|--|--|-------------------------------------|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | |
| Memory | 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | NFC | Security Power-on password, hard disk password, supervisor password, security keyhole | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm 14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | |
| Weight ² | Models | 3-cell + 3-cell | 3-cell + 6-cell | | | vPro (optional) | Intel vPro Technology | | |
| | Non-MultiTouch | 3.5 lb / 1.59kg | 3.9 lb / 1.77kg | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | |
| | MultiTouch | 3.9 lb / 1.76kg | 4.2 lb / 1.94kg | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | |
| Case material | Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | |
| Internal battery | Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | | | |
| | Battery life | 8.4 hr | 12.6 hr | 16.8 hr | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | |

See footnotes for more detailed information

(STG1-3) © Lenovo

ThinkPad T440s 20AR (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|------------------|--------------------|------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20AR0059US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20AR005AUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20AR000VUS | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR000WUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR0013US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | None | None | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR0014US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001CUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001EUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001FUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | None | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001GUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001HUS | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001MUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR0057US | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20AR0058US | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20AR000UUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR0015US | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR0017US | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR0018US | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001AUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |
| 20AR001QUS | i7-4600U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 09/13 |

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|-----------------|-----------------|---------------------|-----------------|--------------------------------|--|-------------------------------------|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Memory | 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm 14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm | | | | | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Weight ² | Models | 3-cell + 3-cell | 3-cell + 6-cell | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| | Non-MultiTouch | 3.5 lb / 1.59kg | 3.9 lb / 1.77kg | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| | MultiTouch | 3.9 lb / 1.76kg | 4.2 lb / 1.94kg | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Case material | Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy | | | | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |
| Internal battery | Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | | | | | | |
| | Battery life | 8.4 hr | 12.6 hr | | 16.8 hr | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |

See footnotes for more detailed information

(STG1-4) © Lenovo

ThinkPad T440s 20AR (Onsite)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|---------|---------------|------------|------------------|----------------|----------|-----------------------------|---------|------------------|--------------------|-----|-------------------------|----------------------|----------|----------------------|--------|----------------|
| 20AR003TUS | i5-4300U | vPro | HD 4400 | 4+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR003UUS | i5-4300U | vPro | HD 4400 | 4+0GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR003VUS | i5-4300U | vPro | HD 4400 | 4+4GB 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR0046US | i5-4300U | vPro | HD 4400 | 4+4GB 14" FHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR0048US | i5-4300U | vPro | HD 4400 | 4+0GB 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR004AUS | i5-4300U | vPro | HD 4400 | 4+4GB 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR003WUS | i7-4600U | vPro | HD 4400 | 4+4GB 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR0041US | i7-4600U | vPro | HD 4400 | 4+4GB 14" FHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |
| 20AR0044US | i7-4600U | vPro | HD 4400 | 4+4GB 14" FHD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-onsite | Yes | 11/13 | |

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|-----------------|------------------------|---------------------|----------------------|--|--|-------------------------------------|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Memory | 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | NFC | Optional: Near Field Communication | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm 14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Weight ² | Models | 3-cell + 3-cell | 3-cell + 6-cell | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | Non-MultiTouch | 3.5 lb / 1.59kg | | 3.9 lb / 1.77kg | | vPro (optional) | Intel vPro Technology | | | | | |
| | MultiTouch | 3.9 lb / 1.76kg | | 4.2 lb / 1.94kg | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Case material | Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| Internal battery | Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell 47.5Wh | | 3-cell + 6-cell 72Wh | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |
| | Battery life | 8.4 hr | | 12.6 hr | | 16.8 hr | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |

See footnotes for more detailed information

(STG1-5) © Lenovo

ThinkPad T440s 20AR (Onsite) - Windows 8

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit keyboard | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|------------------|---------------------|------|-------------------------|----------------------|----------|----------------------|--------|----------------|
| 20AR000TUS | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR000XUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR0010US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR0012US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | None | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR0016US | i5-4300U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR001BUS | i5-4300U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | None | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR001DUS | i5-4300U | vPro | HD 4400 | 4+0GB | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR000YUS | i7-4600U | vPro | HD 4400 | 4+0GB | 14" FHD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |
| 20AR0011US | i7-4600U | vPro | HD 4400 | 4+4GB | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 09/13 |

• For detailed platform specifications, please see [ThinkPad T440s Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|-----------------|-----------------|---------------------|-----------------|---------------------|--|-------------------------------------|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | ThinkLight™ | None | | | | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Memory | 12GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | NFC | Optional: Near Field Communication | | | | | |
| Dimensions ³ | 14.0W" (WxDxH): 13.0" x 8.9" x 0.81; 331mm x 226mm x 20.65mm 14.0W" MultiTouch (WxDxH): 13.0" x 8.9" x 0.90; 331mm x 226mm x 22.94mm | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Weight ² | Models | 3-cell + 3-cell | 3-cell + 6-cell | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | Non-MultiTouch | 3.5 lb / 1.59kg | 3.9 lb / 1.77kg | | | vPro (optional) | Intel vPro Technology | | | | | |
| | MultiTouch | 3.9 lb / 1.76kg | 4.2 lb / 1.94kg | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Case material | Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| Internal battery | Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 64-bit | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |
| | Battery life | 8.4 hr | 12.6 hr | 16.8 hr | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |

See footnotes for more detailed information



Lenovo® ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s



Lenovo ThinkPad T450s

ThinkPad T450s Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | |
|-------------------------|---|----------------------|----------------------|----------------|---------------------|-------|--------------|------------------------|---|---|-----------------|-----------------|----------------------|----------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|-------------|--|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 5500 | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | |
| | i5-5300U | | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | |
| | i7-5600U | | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | |
| Display | <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS | | | | | | | | ThinkEngine | Trusteed Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory Single-sided M.2 SSD, via M.2 card slot None | | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | |
| M.2 SSD (opt) | | | | | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | |
| Optical | | | | | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.16 hr</td> <td>14.9 hr</td> <td>19.9 hr</td> </tr> </tbody> </table> | | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update PC Device Stage Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | | | | | | | | | | | | |
| WWAN (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| Dimensions ³ | 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>3.26 lb / 1.48 kg</td> <td>3.49 lb / 1.59 kg</td> <td>3.90 lb / 1.77 kg</td> </tr> <tr> <td>Multi-touch</td> <td>3.79 lb / 1.72 kg</td> <td>4.02 lb / 1.82 kg</td> <td>4.42 lb / 2.01 kg</td> </tr> </tbody> </table> | | | | | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg | Environment | EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg | | | | | | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Carbon-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | |

ThinkPad T450s 20BX (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|---------|----------------|---------|------------|------------------|------|----------|-------------------|---------|------------------|---------------------|-------------------------|----------------------|---------|----------------------|--------|----------------|
| 20BX001PUS | i5-5200U | No | HD 5500 | 4+0GB 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 | |
| 20BX0015US | i5-5300U | vPro | HD 5500 | 4+0GB 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX0016US | i5-5300U | vPro | HD 5500 | 4+4GB 14" HD+ | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX0017US | i5-5300U | vPro | HD 5500 | 4+4GB 14" HD+ | No | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX0018US | i5-5300U | vPro | HD 5500 | 4+4GB 14" FHD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX0019US | i5-5300U | vPro | HD 5500 | 4+0GB 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001AUS | i5-5300U | vPro | HD 5500 | 4+4GB 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001DUS | i5-5300U | vPro | HD 5500 | 4+4GB 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001EUS | i5-5300U | vPro | HD 5500 | 4+4GB 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001HUS | i5-5300U | vPro | HD 5500 | 4+0GB 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001JUS | i5-5300U | vPro | HD 5500 | 4+0GB 14" HD+ | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001KUS | i5-5300U | vPro | HD 5500 | 4+4GB 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001NUS | i5-5300U | vPro | HD 5500 | 4+0GB 14" HD+ | No | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001BUS | i7-5600U | vPro | HD 5500 | 4+4GB 14" HD+ | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001CUS | i7-5600U | vPro | HD 5500 | 4+4GB 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001FUS | i7-5600U | vPro | HD 5500 | 4+4GB 14" FHD IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |
| 20BX001LUS | i7-5600U | vPro | HD 5500 | 4+4GB 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 | |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|--|----------------|---------------------|----------------------|----------------------|--------------|----------|---------|---------|-----|------------|----------|---------|---------|-----|----------|---------|---------|-----|---------------------|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-5200U</td> <td rowspan="3">2</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>3.26 lb / 1.48 kg</td> <td>3.49 lb / 1.59 kg</td> <td>3.90 lb / 1.77 kg</td> </tr> <tr> <td>Multi-touch</td> <td>3.79 lb / 1.72 kg</td> <td>4.02 lb / 1.82 kg</td> <td>4.42 lb / 2.01 kg</td> </tr> </tbody> </table> | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | Case material | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.16 hr</td> <td>14.9 hr</td> <td>19.9 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(STG2-1) © Lenovo

ThinkPad T450s 20BX (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) | |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|----------|----------------------|---------|----------------|-------|
| 20BX003SUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG | Win7 | 3-depot | No | 08/15 |
| 20BX003TUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG | Win7 | 3-depot | No | 08/15 |
| 20BX003PUS | i5-5200U | No | HD 5500 | 4+0GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG | Win7 | 1-depot | No | 08/15 |
| 20BX003QUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG | Win7 | 3-depot | No | 08/15 |
| 20BX003RUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG | Win7 | 3-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm | | | | | | | | | | | |
|--|---|----------------------|--|---------------------|-------|--------------|--|-------------|-----------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>3.26 lb / 1.48 kg</td> <td>3.49 lb / 1.59 kg</td> <td>3.90 lb / 1.77 kg</td> </tr> <tr> <td>Multi-touch</td> <td>3.79 lb / 1.72 kg</td> <td>4.02 lb / 1.82 kg</td> <td>4.42 lb / 2.01 kg</td> </tr> </tbody> </table> | | | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | |
| Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | | | | | | | | | | | | | | | |
| Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Case material Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Smart card reader Optional: Smart card reader | | | | | | | | | | | |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Security chip Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | |
| Optical | None | | | | | | vPro (optional) Intel vPro Technology | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Internal battery Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable | | EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | Max battery life ¹⁰ <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.16 hr</td> <td>14.9 hr</td> <td>19.9 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | |
| Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | Preload Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | Win8.1 P64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | |
| Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T450s 20BX (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20BX001GUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BX001MUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| | | | | | | | |
|--|---|------------|----------------|---------------------|-------|--------------|---|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Weight ² Models: No + 3-cell, 3-cell + 3-cell, 3-cell + 6-cell Non-touch: 3.26 lb / 1.48 kg, 3.49 lb / 1.59 kg, 3.90 lb / 1.77 kg Multi-touch: 3.79 lb / 1.72 kg, 4.02 lb / 1.82 kg, 4.42 lb / 2.01 kg |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Case material Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Smart card reader Optional: Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | |
| Optical | None | | | | | | Security Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Internal battery Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) Max battery life ¹⁰ Models: 3-cell + 3-cell, 3-cell + 6-cell 48Wh, 3-cell + 6-cell 72Wh Battery life: 10.16 hr, 14.9 hr, 19.9 hr |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | Preload Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | |
| Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | |

See footnotes for more detailed information

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ThinkPad T450s 20BX (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20BX005DUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BX005FUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BX005GUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BX005CUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20BX005EUS | i5-5200U | No | HD 5500 | 4+0GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20BX005HUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm | | | | | | | | | | | |
|---------------------|---|----------------------|--|---------------------|-------|--------------|--|-------------|-----------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------|-------------------|-------------------|-------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>3.26 lb / 1.48 kg</td> <td>3.49 lb / 1.59 kg</td> <td>3.90 lb / 1.77 kg</td> </tr> <tr> <td>Multi-touch</td> <td>3.79 lb / 1.72 kg</td> <td>4.02 lb / 1.82 kg</td> <td>4.42 lb / 2.01 kg</td> </tr> </tbody> </table> | | | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | |
| Non-touch | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg | | | | | | | | | | | | | | | |
| Multi-touch | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Case material Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Smart card reader Optional: Smart card reader | | | | | | | | | | | |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Security chip Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | |
| Optical | None | | | | | | vPro (optional) Intel vPro Technology | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Internal battery Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable | | EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | Max battery life ¹⁰ <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.16 hr</td> <td>14.9 hr</td> <td>19.9 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | |
| Battery life | 10.16 hr | 14.9 hr | 19.9 hr | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | Preload Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | |
| | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(STG2-8) © Lenovo

ThinkPad T450s 20BW

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) | |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|-----------|----------------------|---------|----------------|-------|
| 20BW0004US | i5-5300U | vPro | HD 5500 | 4+0GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20BW0006US | i5-5300U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20BW0009US | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20BW000BUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20BW000CUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20BW000AUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20BW000HUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20BW000JUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| | | | | | | | | | | | | | |
|-------------------|---|------------|--|---------------------|-------|--------------------------------|---|---|--|-----------------|----------------------|----------------------|-------------------|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ | 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | Non-touch | | | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | Multi-touch | | | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | | | | | | | |
| | | | | | | | Case material | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Smart card reader | Optional: Smart card reader | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Optical | None | | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable | | EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | Max battery life ¹⁰ | Models | | | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | Battery life | | | | 10.16 hr | 14.9 hr | 19.9 hr |
| Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | |
| | | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | |

See footnotes for more detailed information

(STG2-3) © Lenovo

ThinkPad T450s 20BW (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam-era | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Ann date (m/y) | |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|---------|------------------|---------------------|-------------------------|----------------------|------------|----------------------|----------------|-------|
| 20BW0007US | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| | | | | | | | |
|--------------------------------|---|------------|----------------|---------------------|-------|--------------|---|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Weight ² Models: No + 3-cell, 3-cell + 3-cell, 3-cell + 6-cell Non-touch: 3.26 lb / 1.48 kg, 3.49 lb / 1.59 kg, 3.90 lb / 1.77 kg Multi-touch: 3.79 lb / 1.72 kg, 4.02 lb / 1.82 kg, 4.42 lb / 2.01 kg |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Case material Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Smart card reader Optional: Smart card reader |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | |
| Optical | None | | | | | | Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Security Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Internal battery Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) Max battery life ¹⁰ Models: 3-cell + 3-cell, 3-cell + 6-cell 48Wh, 3-cell + 6-cell 72Wh Battery life: 10.16 hr, 14.9 hr, 19.9 hr |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | |
| Preload | | | | | | | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 |
| Limited warranty ¹² | | | | | | | 1-year depot / 3-year (1-year battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID |

See footnotes for more detailed information

(STG2-4) © Lenovo

ThinkPad T450s 20BW (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20BW007NUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | Yes | 09/15 |
| 20BW007PUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | Yes | 09/15 |
| 20BW007MUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | Yes | 09/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| | | | | | | | |
|--------------------------------|---|------------|----------------|---------------------|-------|--------------|---|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Weight ² Models: No + 3-cell, 3-cell + 3-cell, 3-cell + 6-cell Non-touch: 3.26 lb / 1.48 kg, 3.49 lb / 1.59 kg, 3.90 lb / 1.77 kg Multi-touch: 3.79 lb / 1.72 kg, 4.02 lb / 1.82 kg, 4.42 lb / 2.01 kg |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Case material Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Smart card reader Optional: Smart card reader |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | |
| Optical | None | | | | | | Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Security Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology Fingerprint reader Optional: Fingerprint reader on the keyboard bezel, swipe sensor |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Internal battery Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) External battery Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) Max battery life ¹⁰ Models: 3-cell + 3-cell, 3-cell + 6-cell 48Wh, 3-cell + 6-cell 72Wh Battery life: 10.16 hr, 14.9 hr, 19.9 hr |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | |
| Preload | | | | | | | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 |
| Limited warranty ¹² | | | | | | | 1-year depot / 3-year (1-year battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID |

See footnotes for more detailed information

(STG2-9) © Lenovo

ThinkPad T450s 20BW (Onsite)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam-era | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|---------|-------------------|---------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20BW0003US | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |
| 20BW0005US | i5-5300U | vPro | HD 5500 | 4+0GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |
| 20BW000EUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |
| 20BW000FUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |
| 20BW000GUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |
| 20BW0008US | i7-5600U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |
| 20BW000DUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |
| 20BW000LUS | i7-5600U | vPro | HD 5500 | 4+4GB | 14" HD+ | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite OID | Yes | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| | | | | | | | | | | | | | |
|-------------------|---|--|----------------|---------------------|-------|--------------|--------------------------------|--|--|--|-------------------|----------------------|----------------------|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ | 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | Non-touch | | | 3.26 lb / 1.48 kg | 3.49 lb / 1.59 kg | 3.90 lb / 1.77 kg |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | Multi-touch | | | 3.79 lb / 1.72 kg | 4.02 lb / 1.82 kg | 4.42 lb / 2.01 kg |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | | | | | | | |
| | | | | | | | Case material | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Smart card reader | Optional: Smart card reader | | | | | |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Ports | Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only) | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Optical | None | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| Bluetooth™ | Intel Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| WLAN ⁴ | 11b/g/n+BT: | ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | |
| | 7265 ac+BT: | Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | |
| WWAN (optional) | Upg: | Wireless WAN upgradeable | | | | | Max battery life ¹⁰ | Models | | | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh |
| | EM7345: | Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | Win8.1 64: Windows 8.1 64-bit | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | Win8.1 P64: Windows 8.1 Pro 64-bit | | | | | |
| | | | | | | | | Win10 P64: Windows 10 Pro 64 | | | | | |
| | | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | |

See footnotes for more detailed information

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ThinkPad T450s 20BW (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Ann date Global (m/y) | | |
|------------|-----------|------|----------|-------------------------|-------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|------------|----------------------|-----------------------|-----|-------|
| 20BW000KUS | i5-5300U | vPro | HD 5500 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-onsite | OID | Yes | 01/15 |

• For detailed platform specifications, please see [ThinkPad T450s Platform Specifications sheet](#)

| | | | | | | | |
|-------------------|---|---|----------------|---------------------|-------|--------------|---|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 14.0" (WxDxH): 13.03" x 8.90" x 0.81"; 331mm x 226mm x 20.65mm 14.0" Touch (WxDxH): 13.03" x 8.90" x 0.90"; 331mm x 226mm x 22.94mm |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Weight ² |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Media reader |
| Memory | 20GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, 4GB memory soldered to systemboard, one 204-pin SO-DIMM socket | | | | | | Ports |
| Display | Some: 14.0" (355mm) HD+ (1600x900), 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | | | | | | Keyboard |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 264 nits | | | | | | UltraNav™ |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Security |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Security chip |
| Optical | None | | | | | | vPro (optional) |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | Fingerprint reader |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Internal battery |
| WLAN ⁴ | 11b/g/n+BT: | ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | | | | External battery |
| WWAN (optional) | Upg: | Wireless WAN upgradeable | | | | | Max battery life ¹⁰ |
| SIM card (opt) | EM7345: | Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Models |
| Camera | | Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Battery life |
| Audio support | | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | AC adapter |
| | | HD720p resolution, low light sensitive, fixed focus | | | | | Preload |
| | | HD Audio, Realtek® ALC3232 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | Limited warranty ¹² |

See footnotes for more detailed information

(STG2-6) © Lenovo



Lenovo® ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s



Lenovo ThinkPad T460s

ThinkPad T460s Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | |
|-------------------------|--|------------|--------------|----------------|---------------------|-------|--------------|--|--|-----------------------|
| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | | Smart card reader Media reader Ports WiGig dock (opt) | Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector WiGig dock, mutually exclusive with WWAN | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | Processor Graphics |
| | i5-6200U | 2 | 4 | 2.3 GHz | 2.8 GHz | 3MB | DDR4-2133 | | | Intel HD Graphics 520 |
| | i5-6300U | | | 2.4 GHz | 3 GHz | 3MB | | | | |
| i7-6600U | 2.6 GHz | | | 3.4 GHz | 4MB | | | | | |
| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US); supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI) | | | | | | | Camera (optional) Audio support | HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | |
| Memory | 20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 160° viewing angle | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture, 250 nits | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | |
| Optical | None | | | | | | | vPro (optional) | Intel vPro Technology | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | Fingerprint reader | Optional: Touch style fingerprint reader on the palm rest | |
| WLAN ⁴ | One of the following, configurable by model (WiGig is mutually exclusive with WWAN): • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card • WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | Internal battery | Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | Max battery life ¹⁰ | MobileMark® 2014: up to 10.5 hr 45W or 65W AC adapter | |
| WWAN (optional) | One of the following, configurable by model (mutually exclusive with WiGig): • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | Limited warranty ¹² | One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | |
| Dimensions ³ | WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm | | | | | | | Mil-Spec test | MIL-STD-810G military certification | |
| Weight ² | Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg) | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy | | | | | | | | | |

ThinkPad T460s 20F9 (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|--------------|-------------|----------------|------------------|------|----------|-------------------|--------|------------------|--------------------|---------------------|----------------------|---------------|----------------------|--------|----------------|
| 20F9001DUS | i7-6600U | vPro | HD 520 | 4+8GB | 14" FHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F90034US | i5-6300U | vPro | HD 520 | 4+0GB | 14" FHD IPS | No | 128G SSD | 8260 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F90035US | i7-6600U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F90036US | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 128G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F90037US | i7-6600U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F90039US | i5-6200U | No | HD 520 | 4+0GB | 14" FHD IPS | No | 128G SSD | 8260 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 1-depot | No | 02/16 |
| 20F9003BUS | i5-6300U | vPro | HD 520 | 4+0GB | 14" FHD IPS | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003CUS | i7-6600U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003DUS | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003EUS | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 128G SSD | 8260 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003BUS | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003HUS | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003JUS | i5-6300U | vPro | HD 520 | 4+0GB | 14" FHD IPS | No | 128G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9004FUS | i5-6200U | No | HD 520 | 4+4GB | 14" FHD IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003BUS | i7-6600U | vPro | HD 520 | 4+4GB | 14" WQHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9003AUS | i7-6600U | vPro | HD 520 | 4+4GB | 14" WQHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9004MUS | i7-6600U | vPro | HD 520 | 4+8GB | 14" WQHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20F9004PUS | i7-6600U | vPro | HD 520 | 4+8GB | 14" WQHD IPS | No | 512G SSD | 18260 ac+BT | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad T460s Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | WWAN (optional) Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---------------------|----------------|---------------------|-------|--------------|----------|---|---------|---------|-----|-----------|----------|---------|-------|-----|----------|---------|---------|-----|---|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6200U</td> <td rowspan="3">2</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="3">DDR4-2133</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR4-2133 | i5-6300U | 2.4 GHz | 3 GHz | 3MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | |
| i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR4-2133 | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3 GHz | 3MB | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US) | Smart card reader Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | |
| Memory | 20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket | Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | WiGig dock (opt) WiGig dock, mutually exclusive with WWAN | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture, 250 nits | Camera (optional) HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | vPro (optional) Intel vPro Technology | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader Optional: Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm | Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated | | | | | | | | | | | | | | | | | | | | |
| Weight ² | Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg) | Max battery life ¹⁰ MobileMark® 2014: up to 10.5 hr | | | | | | | | | | | | | | | | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy | AC adapter 45W or 65W AC adapter | | | | | | | | | | | | | | | | | | | | |
| | | Preload Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(TP1-1) © Lenovo

ThinkPad T460s 20F9 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered +DIMM) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------------|--------------|-------------|----------------|------------------|------|----------|-------------------|--------|------------------|---------------------|---------------------|----------------------|-----------|----------------------|--------|----------------|
| 20F90038US | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F9003FUS | i7-6600U | vPro | HD 520 | 4+4GB | 14" FHD IPS | MT | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F9001CUS | i7-6600U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F9004DUS | i7-6600U | vPro | HD 520 | 4+8GB | 14" FHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F9004EUS | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F9004JUS | i5-6200U | No | HD 520 | 4+0GB | 14" FHD IPS | No | 128G SSD | 8260 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20F9004LUS | i5-6200U | No | HD 520 | 4+4GB | 14" FHD IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F9004NUS | i5-6300U | vPro | HD 520 | 4+4GB | 14" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F90019US | i7-6600U | vPro | HD 520 | 4+8GB | 14" WQHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |
| 20F9004GUS | i7-6600U | vPro | HD 520 | 4+8GB | 14" WQHD IPS | No | 512G SSD | 18260 ac+BT | None | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad T460s Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | WWAN (optional) Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|---|---|----------------|---------------------|-------|--------------|----------|---|---------|---------|-----|-----------|----------|---------|-------|-----|----------|---------|---------|-----|---|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6200U</td> <td rowspan="4">2</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="4">DDR4-2133</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR4-2133 | i5-6300U | 2.4 GHz | 3 GHz | 3MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | SIM card (opt) Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | |
| i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR4-2133 | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3 GHz | 3MB | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | |
| Graphics | | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA GeForce® 930M, 2GB memory (discrete graphics is only available in US) | Smart card reader Optional: Smart card reader | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | |
| Memory | 20GB or 24GB max ⁷ / 2133MHz DDR4, dual-channel capable, 4GB or 8GB memory soldered to systemboard, one DDR4 SO-DIMM socket | Ports Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 250 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | WiGig dock (opt) WiGig dock, mutually exclusive with WWAN | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture, 250 nits | Camera (optional) HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | Audio support HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Keyboard 6-row, spill-resistant, multimedia Fn keys, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless crystal silk surface multi-touch touchpad | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | Fingerprint reader Optional: Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Internal battery Front Li-Polymer 3-cell (23Wh) and rear Li-Ion 3-cell (26Wh), both Integrated Max battery life ¹⁰ MobileMark® 2014: up to 10.5 hr AC adapter 45W or 65W AC adapter | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | WxDxH: 13.03" x 8.93" x 0.67-0.74"; 331mm x 226.8mm x 16.9-18.8mm | Preload Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | |
| Weight ² | Integrated model: from 3.0 lb (1.36kg); Discrete model: from 3.3 lb (1.50kg) | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Magnesium alloy | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(TP1-2) © Lenovo



Lenovo® ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p



Lenovo ThinkPad T540p

ThinkPad T540p Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | |
|--------------------------------|---|------------------|--------------|------------------|---------------------|-------|--------------|------------------------|--------------------------------|---|
| Positioning | <i>Premiere performance; two spindles</i> | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter |
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | NFC | <i>Optional: Near Field Communication</i> |
| | i3-4000M | 2 | 4 | 2.4 GHz | - | 3MB | DDR3L-1600 | Intel HD Graphics 4600 | Chipset | Mobile Intel QM87 Express Chipset |
| | i3-4100M | | | 2.5 GHz | - | 3MB | | | ExpressCard | One slot (ExpressCard/34) |
| | i5-4200M | | | 2.5 GHz | 3.1 GHz | 3MB | | | Smart card reader | <i>Optional: Smart card reader</i> |
| | i5-4210M | | | 2.6 GHz | 3.2 GHz | 3MB | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| | i5-4300M | | | 2.6 GHz | 3.3 GHz | 3MB | | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | | | | | | |
| | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | | | | | | |
| | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | | | | | | |
| | i7-4710MQ | 2.5 GHz | 3.5 GHz | 6MB | | | | | | |
| | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | | | | | | |
| | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card |
| Optical Ultrabay | DVD burner, 9.5mm Ultrabay slim, removable One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access | | | | | | | | WWAN (optional) | <i>One of the following, configurable by model (mutually exclusive with M.2 SSD):</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) |
| Storage | <i>Some:</i> Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> Hard Disk Drive (HDD) / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Active Protection System™ | | | | | | | | SIM card (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider |
| M.2 SSD | <i>All:</i> removable, upgradable, supports the second disk, Shock Mounted <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS | | | | | | | | vPro (optional) | Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | | Fingerprint reader | <i>Optional: Fingerprint reader on the palm rest, swipe sensor</i> |
| Graphics | Intel HD Graphics 4600 in processor only, or Intel HD Graphics 4600 in processor and NVIDIA GeForce® GT 730M , PCI Express® x8, 1GB memory, NVIDIA® Optimus™ technology; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; <i>Max resolution:</i> 1920x1200@60Hz (VGA); 3840x2160@60Hz (DP via mDP cable) | | | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) |
| Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Cloud Storage by SugarSync PC Device Stage Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) Cyberlink PowerDVD (DVD±RW) Cyberlink Power2Go (DVD±RW) Cyberlink PowerProducer (DVD±RW) |
| ThinkLight™ | None | | | | | | | | | <i>Some:</i> Windows 8 / 8.1 64-bit <i>Some:</i> Windows 8 / 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) |
| Dimensions ³ | <i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | | | | | | | | |
| Weight ² | <i>Models</i> | <i>6-cell</i> | | <i>9-cell</i> | | | | | | |
| | <i>Integrated</i> | 5.31 lb / 2.41kg | | 5.65 lb / 2.56kg | | | | | | |
| | <i>Optimus</i> | 5.43 lb / 2.46kg | | 5.80 lb / 2.63kg | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | |
| Max battery life ¹⁰ | <i>Models</i> | <i>6-cell</i> | | <i>9-cell</i> | | | | | | |
| | <i>Integrated</i> | 7 hr | | 12.5 hr | | | | | | |
| | <i>Optimus</i> | 6.2 hr | | 11 hr | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | Mil-Spec test | MIL-STD-810G military certification |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant |

ThinkPad T540p 20BE (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|-------------------|---------------------|------|----------------|----------------------|---------------|----------------------|--------|----------------|
| 20BE003AUS | i5-4200M | No | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/34 | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 1-depot | No | 10/13 |
| 20BE003CUS | i5-4300M | No | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/34 | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 1-depot | No | 10/13 |
| 20BE003DUS | i5-4300M | No | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/34 | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003EUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003FUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003GUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003HUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003JUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003KUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE004EUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20BE0095US | i5-4300M | vPro | HD 4600 | 8GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20BE00BTUS | i5-4210M | No | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/34 | 720p | None | None | None | 6 | 65W | Win8 DG Win7 | 1-depot | No | 03/15 |
| 20BE00CVUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BE00CTUS | i5-4210M | No | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/34 | 720p | None | None | None | 6 | 65W | Win10 DG Win7 | 1-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|--------------------|--|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|---|
| Processor | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4000M</td> <td rowspan="4">2</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="8">DDR3L-1600</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="4">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4700MQ</td> <td>2.4 GHz</td> <td>3.4 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4800MQ</td> <td>2.7 GHz</td> <td>3.7 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4900MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | Keyboard UltraNav™ ThinkLight™ Chipset ExpressCard Smart card reader Media reader Ports | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch None Mobile Intel QM87 Express Chipset One slot (ExpressCard/34) <i>Optional:</i> Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | <i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | WWAN (optional) | <i>Upg:</i> Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | SIM card (optional) | <i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | <i>Some:</i> 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | NFC | <i>Optional:</i> Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | <i>HD (WxDxH):</i> 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm <i>FHD / 3K:</i> 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>5.31 lb / 2.41kg</td> <td>5.65 lb / 2.56kg</td> </tr> <tr> <td>Optimus</td> <td>5.43 lb / 2.46kg</td> <td>5.80 lb / 2.63kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | Fingerprint reader | <i>Optional:</i> Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win10 P64: Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7 hr</td> <td>12.5 hr</td> </tr> <tr> <td>Optimus</td> <td>6.2 hr</td> <td>11 hr</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 7 hr | 12.5 hr | Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7 hr | 12.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
 US model(s) withdrawn effective March 2015

(KM1-1) © Lenovo

ThinkPad T540p 20BE (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-----------|------------------|----------------|----------|-------------------|--------------|--------|-------------------|---------------------|------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20BE00DCUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win10 P64 | 3-depot | No | 09/15 |
| 20BE00DFUS | i5-4210M | No | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | Exp/34 | 720p | None | None | None | 6 | 65W | Win10 P64 | 1-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Audio support | | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---|------------------|---------------------|------------------|--------------|--------------------------------|------------|--|---------------------|-------|--------------|----------|---|---------|---|-----|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | 2.4 GHz | | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | 2.7 GHz | | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | 2.8 GHz | | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ThinkLight™ | | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ExpressCard | | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Smart card reader | | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | WWAN (optional) | | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | SIM card (optional) | | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Bluetooth™ | | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | <i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS | | | | | | Ethernet | | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS Camera (optional) HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | NFC | | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | | | | | | Security | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | | | | | Security chip | | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | Models | | 6-cell | | 9-cell | | vPro (optional) | | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Integrated | | 5.31 lb / 2.41kg | | 5.65 lb / 2.56kg | | Fingerprint reader | | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Optimus | | 5.43 lb / 2.46kg | | 5.80 lb / 2.63kg | | Preload | | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | Limited warranty ¹² | | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | Models | | 6-cell | | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Integrated | | 7 hr | | 12.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Optimus | | 6.2 hr | | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(KM1-9) © Lenovo

ThinkPad T540p 20BE (Optimus) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|-------------------|---------------------|------|----------------|----------------------|----------------|----------------------|--------|----------------|
| 20BE00BPUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 512G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG Win7 | 3-depot | No | 10/14 |
| 20BE003LUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003MUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003NUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003PUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003QUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003RUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE003SUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 10/13 |
| 20BE004FUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20BE004GUS | i7-4600M | vPro | GT 730M | 4GBx2 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20BE007YUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 01/14 |
| 20BE0085US | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 240G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 DG Win7 | 3-depot | No | 01/14 |
| 20BE0096US | i7-4700MQ | No | GT 730M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 135W | Win8 DG Win7 | 3-depot | No | 03/14 |
| 20BE00BSUS | i7-4710MQ | No | GT 730M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 135W | Win8 DG Win7 | 3-depot | No | 03/15 |
| 20BE00CWUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 240G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BE00CXUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win10 DG Win7 | 3-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|------------|--|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|--|---------|---------|-----|--|-----------------------|--|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>5.31 lb / 2.41kg</td> <td>5.65 lb / 2.56kg</td> </tr> <tr> <td>Optimus</td> <td>5.43 lb / 2.46kg</td> <td>5.80 lb / 2.63kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7 hr</td> <td>12.5 hr</td> </tr> <tr> <td>Optimus</td> <td>6.2 hr</td> <td>11 hr</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 7 hr | 12.5 hr | Optimus | 6.2 hr | 11 hr | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7 hr | 12.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win10 P64: Windows 8 / 8.1 Pro 64-bit Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

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ThinkPad T540p 20BE (Optimus) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|---------------|------------------|----------------|----------|-------------------|--------------|--------|-------------------|---------------------|------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20BE00DDUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win10 P64 | 3-depot | No | 09/15 |
| 20BE00DEUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 240G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Audio support | | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------------|----------------|---------------------|-------|-------------------|---------------------|---|--|---------------------|------------------|------------------|----------|------------------|------------------|---|-----|---|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|---------|---------|-----|---------|---------|-----|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4000M</td> <td rowspan="5">2</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="8">DDR3L-1600</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td rowspan="3">i7-4700MQ</td> <td rowspan="3">4</td> <td>2.4 GHz</td> <td>3.4 GHz</td> <td>6MB</td> </tr> <tr> <td>2.7 GHz</td> <td>3.7 GHz</td> <td>6MB</td> </tr> <tr> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | | | | | | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | i7-4700MQ | 4 | 2.4 GHz | 3.4 GHz | 6MB | 2.7 GHz | 3.7 GHz | 6MB | 2.8 GHz | 3.8 GHz | 8MB | Keyboard | | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | 4 | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | UltraNav™ | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | ThinkLight™ | | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Chipset | | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | ExpressCard | | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Smart card reader | | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Ports | | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | WWAN (optional) | | Upg: Wireless WAN upgradable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | SIM card (optional) | | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | Bluetooth™ | | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | | Ethernet | | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | NFC | | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio | | | | | | Security | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | Some: 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio | | | | | | Security chip | | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Some: 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS | | | | | | vPro (optional) | | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Fingerprint reader | | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | | | | | Preload | | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7 hr</td> <td>12.5 hr</td> </tr> <tr> <td>Optimus</td> <td>6.2 hr</td> <td>11 hr</td> </tr> </tbody> </table> | | | | | | Models | 6-cell | 9-cell | Integrated | 7 hr | 12.5 hr | Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7 hr | 12.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T540p 20BF

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|-------------------|---------------------|------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20BF005UUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8.1 DG Win7 | 1-depot | Yes | 04/14 |
| 20BF005SUS | i7-4600M | vPro | HD 4600 | 8GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8.1 DG Win7 | 3-depot | Yes | 04/14 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------------|----------------|---------------------|-------|--------------------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Audio support | | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard | | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | UltraNav™ | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | ThinkLight™ | | None | | | | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | Chipset | | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | ExpressCard | | One slot (ExpressCard/34) | | | | | | | | | | | | | |
| | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | Smart card reader | | Optional: Smart card reader | | | | | | | | | | | | | |
| | i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | |
| | i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | Ports | | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | |
| | i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | WWAN (optional) | | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | SIM card (optional) | | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | |
| Ultrabay Storage | One modular bay for removable devices (right side, cold swap), 9.5mm high <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS <i>Some:</i> M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Bluetooth™ | | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | |
| M.2 SSD | | | | | | | Ethernet | | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | |
| Widescreen display | <i>Some:</i> 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS | | | | | | NFC | | Optional: Near Field Communication | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Security | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | | | | | | Security chip | | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | | | | | vPro (optional) | | Intel vPro Technology | | | | | | | | | | | | | |
| Weight ² | Models | 6-cell | | 9-cell | | Fingerprint reader | | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | |
| | Integrated | 5.31 lb / 2.41kg | | 5.65 lb / 2.56kg | | Preload | | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | |
| | Optimus | 5.43 lb / 2.46kg | | 5.80 lb / 2.63kg | | Limited warranty ¹² | | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | AC adapter | | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | Models | 6-cell | | 9-cell | | | | | | | | | | | | | | | | | | |
| | Integrated | 7 hr | | 12.5 hr | | | | | | | | | | | | | | | | | | |
| | Optimus | 6.2 hr | | 11 hr | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T540p 20BF (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit key-board | Finger-print reader | NFC | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|-------------------|---------------------|------|----------------|----------------------|----------|----------------------|--------|----------------|
| 20BF001LUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001NUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001PUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001RUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001TUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001WUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 11/13 |
| 20BF001XUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 11/13 |
| 20BF0021US | i7-4600M | vPro | HD 4600 | 8GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF0022US | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF002DUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002GUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002PUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF0030US | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF0034US | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF0037US | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-depot | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------------|------------------|---------------------|-------|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | | | | | | | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | |
| | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | |
| | i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | |
| | i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | |
| | i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | | | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | |
| Weight ² | Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | |
| | Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | | | | | | | | | | |
| | Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | |
| | Integrated | 7 hr | 12.5 hr | | | | | | | | | | | | | | | | | | |
| | Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(KM1-4) © Lenovo

ThinkPad T540p 20BF (Optimus)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit keyboard | Finger-print reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|------------------|---------------------|------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20BF005RUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG | Win7 3-depot | Yes | 04/14 |
| 20BF005TUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 a/b/g/n+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8.1 DG | Win7 3-depot | Yes | 04/14 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|--------------------------------|---|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|---|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4000M</td> <td rowspan="4">2</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="8">DDR3L-1600</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="4">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4700MQ</td> <td>2.4 GHz</td> <td>3.4 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4800MQ</td> <td>2.7 GHz</td> <td>3.7 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4900MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | Keyboard UltraNav™ ThinkLight™ Chipset ExpressCard Smart card reader Media reader Ports | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch None Mobile Intel QM87 Express Chipset One slot (ExpressCard/34) <i>Optional:</i> Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>5.31 lb / 2.41kg</td> <td>5.65 lb / 2.56kg</td> </tr> <tr> <td>Optimus</td> <td>5.43 lb / 2.46kg</td> <td>5.80 lb / 2.63kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7 hr</td> <td>12.5 hr</td> </tr> <tr> <td>Optimus</td> <td>6.2 hr</td> <td>11 hr</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 7 hr | 12.5 hr | Optimus | 6.2 hr | 11 hr | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7 hr | 12.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T540p 20BF (Optimus) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|------------------|--------------------|------|---------------|----------------------|----------|----------------------|--------|----------------|
| 20BF0015US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 11/13 |
| 20BF0017US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 11/13 |
| 20BF0018US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001AUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001DUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001EUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001GUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF001KUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 11/13 |
| 20BF0024US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-depot | No | 10/13 |
| 20BF002FUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002HUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002KUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002LUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002MUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002QUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" HD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002VUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF002XUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20BF0033US | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" HD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-depot | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|--|------------------|------------------|---------------------|-------|--|---|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | |
| | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | ThinkLight™ | None | | | | |
| | i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | Chipset | Mobile Intel QM87 Express Chipset | | | | |
| | i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | ExpressCard | One slot (ExpressCard/34) | | | | |
| | i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4700MQ | 4 | 2.4 GHz | 3.4 GHz | 6MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| | i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | |
| | i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | NFC | Optional: Near Field Communication | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M, 1GB memory (Optimus) | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | | | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | |
| Weight ² | Models | 6-cell | 9-cell | | | | | | | | | |
| | Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | |
| | Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |
| Max battery life ¹⁰ | Models | 6-cell | 9-cell | | | | | | | | | |
| | Integrated | 7 hr | 12.5 hr | | | | | | | | | |
| | Optimus | 6.2 hr | 11 hr | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T540p 20BF (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|------------------|--------------------|------|---------------|----------------------|----------|----------------------|--------|----------------|
| 20BF0014US | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001MUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001QUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001SUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001UUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001VUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 11/13 |
| 20BF001YUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 11/13 |
| 20BF0020US | i7-4600M | vPro | HD 4600 | 8GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF0023US | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF002BUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002EUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002TUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002WUS | i5-4300M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002YUS | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.6" HD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF0036US | i7-4600M | vPro | HD 4600 | 4GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 6 | 65W | Win8 P64 | 3-onsite | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|---------------|--|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-4000M</td> <td rowspan="4">2</td> <td>2.4 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="8">DDR3L-1600</td> </tr> <tr> <td>i5-4200M</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300M</td> <td>2.6 GHz</td> <td>3.3 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4330M</td> <td>2.8 GHz</td> <td>3.5 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td rowspan="4">4</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4700MQ</td> <td>2.4 GHz</td> <td>3.4 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4800MQ</td> <td>2.7 GHz</td> <td>3.7 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4900MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | i5-4200M | 2.5 GHz | 3.1 GHz | 3MB | i5-4300M | 2.6 GHz | 3.3 GHz | 3MB | i5-4330M | 2.8 GHz | 3.5 GHz | 3MB | i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | i7-4700MQ | 2.4 GHz | 3.4 GHz | 6MB | i7-4800MQ | 2.7 GHz | 3.7 GHz | 6MB | i7-4900MQ | 2.8 GHz | 3.8 GHz | 8MB | Keyboard UltraNav™ TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch ThinkLight™ None |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>5.31 lb / 2.41kg</td> <td>5.65 lb / 2.56kg</td> </tr> <tr> <td>Optimus</td> <td>5.43 lb / 2.46kg</td> <td>5.80 lb / 2.63kg</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>6-cell</th> <th>9-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated</td> <td>7 hr</td> <td>12.5 hr</td> </tr> <tr> <td>Optimus</td> <td>6.2 hr</td> <td>11 hr</td> </tr> </tbody> </table> | Models | 6-cell | 9-cell | Integrated | 7 hr | 12.5 hr | Optimus | 6.2 hr | 11 hr | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7 hr | 12.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(KM1-7) © Lenovo

ThinkPad T540p 20BF (Optimus) - Onsite (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Express-Card | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-----------------|------------------|----------------|----------|-------------------|--------------|--------|------------------|--------------------|------|---------------|----------------------|----------|----------------------|--------|----------------|
| 20BF0016US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 11/13 |
| 20BF0019US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001BUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001CUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001FUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001HUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 128G SSD | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF001JUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 11/13 |
| 20BF0025US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | Backlit | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | No | 10/13 |
| 20BF002CUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" HD | 500G 7200 | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002JUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" HD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002NUS | i7-4600M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002RUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002SUS | i7-4600M | vPro | GT 730M | 8GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF002UUS | i5-4300M | vPro | GT 730M | 4GBx1 | 15.6" HD | 180G SSD Opal | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF0031US | i7-4600M | vPro | GT 730M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF0032US | i5-4300M | vPro | GT 730M | 4GBx1 | 15.5" 3K IPS | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20BF0035US | i7-4600M | vPro | GT 730M | 4GBx1 | 15.6" FHD | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | Exp/34 | 720p | None | Finger | None | 9 | 90W | Win8 P64 | 3-onsite | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad T540p Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|--------------------------------|--|----------------|---------------------|------------------|------------------|----------|------------------|------------------|---------------|--|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|--|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4000M | 2 | 2.4 GHz | - | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200M | | 2.5 GHz | 3.1 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300M | | 2.6 GHz | 3.3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4330M | | 2.8 GHz | 3.5 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | 4 | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4700MQ | | 2.4 GHz | 3.4 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4800MQ | | 2.7 GHz | 3.7 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4900MQ | | 2.8 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.5mm Ultrabay slim, removable | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 15.6" (396mm) HD (1366x768) , 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080) , 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620) , 350 nits, 1000:1 contrast ratio, IPS | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 in processor, or Intel HD Graphics 4600 and NVIDIA GeForce® GT 730M , 1GB memory (Optimus) | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | HD (WxDxH): 14.83" x 9.77" x 1.18-1.33"; 376.6mm x 248.1mm x 29.9-33.9mm FHD / 3K: 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 5.31 lb / 2.41kg | 5.65 lb / 2.56kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 5.43 lb / 2.46kg | 5.80 lb / 2.63kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Models | 6-cell | 9-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated | 7 hr | 12.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optimus | 6.2 hr | 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 65-watt, 90-watt, or 135-watt AC adapter | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad T550



Lenovo ThinkPad T550



Lenovo ThinkPad T550



Lenovo ThinkPad T550



Lenovo ThinkPad T550

ThinkPad T550 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Smart card reader <i>Optional</i> : Smart card reader | | | | | | | | |
|--------------------------|--|----------------------|----------------------|----------------|---------------------|-------|--------------|------------------------|---|--------|-----------------|----------------------|----------------------|--------------|---------|-------|---------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 5500 | Camera <i>(optional)</i> HD720p resolution, low light sensitive, fixed focus | | | | | | | | |
| | i5-5300U | | | 2.3 GHz | 2.9 GHz | 3MB | | | Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | |
| | i7-5600U | | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 2560x1600@60Hz (VGA) | | | | | | | | Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Security chip Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 200 or 220 nits, 16:9 aspect ratio, 350:1 or 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS | | | | | | | | ThinkEngine Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | |
| Multi-touch <i>(opt)</i> | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | | | | | | | | vPro <i>(optional)</i> Intel vPro Technology | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | | Fingerprint reader <i>Optional</i> : Fingerprint reader on the palm rest, swipe sensor | | | | | | | | |
| M.2 SSD <i>(opt)</i> | Single-sided M.2 SSD, via M.2 card slot | | | | | | | | Internal battery <i>Optional</i> : Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | |
| Optical | None | | | | | | | | External battery Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | | Max battery life ¹⁰ <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>14.8 hr</td> <td>20 hr</td> <td>25.2 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 14.8 hr | 20 hr | 25.2 hr |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | |
| Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | Preload Windows® 7 Professional 64 preinstalled <i>Some:</i> Windows 8.1 64-bit through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update PC Device Stage Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | | | | | | | | |
| WWAN <i>(optional)</i> | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | Limited warranty ¹² <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | |
| SIM card <i>(opt)</i> | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | Mil-Spec test MIL-STD-810G military certification | | | | | | | | |
| Dimensions ³ | 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | Environment EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | |
| Weight ² | Models | No + 6-cell | 3-cell + 3-cell | | | | | 3-cell + 6-cell | | | | | | | | | |
| | Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | | | | | 5.04 lb / 2.29 kg | | | | | | | | | |
| | Multi-touch | - | 5.01 lb / 2.27 kg | | | | | 5.35 lb / 2.43 kg | | | | | | | | | |
| Case material | <i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom:</i> Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | |

ThinkPad T550 20CK (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20CK000GUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000BUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000CUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000FUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000HUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000KUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000LUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000MUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" FHD | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000DUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000EUS | i7-5600U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK000JUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CK0025US | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" FHD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20CK002SUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20CK0045US | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CK0046US | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CK0047US | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CK0048US | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CK0049US | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications sheet](#)

| | | | | | | | | | | |
|-------------------|---|--------------------------------|---|-----------------|----------------------|----------------------|-------------------|-------------------|-------------------|-----------------|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell |
| i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | 5.04 lb / 2.29 kg | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Multi-touch | - | 5.01 lb / 2.27 kg | 5.35 lb / 2.43 kg | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | |
| | | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | |
| | | Max battery life ¹⁰ | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | |
| | | | Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | |
| | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | |
| | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | |

See footnotes for more detailed information

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ThinkPad T550 20CK (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20CK004QUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.5" 3K IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CK004MUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CK004RUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CK004LUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CK004SUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|---|----------------|---------------------|----------------------|----------------------|--------------|---------|---------|---------|-----|------------|----------|---------|---------|-----|----------|---------|---------|-----|---------------------|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|---|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-5200U</td> <td rowspan="3">2</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>4.93 lb / 2.23 kg</td> <td>4.70 lb / 2.13 kg</td> <td>5.04 lb / 2.29 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.01 lb / 2.27 kg</td> <td>5.35 lb / 2.43 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | 5.04 lb / 2.29 kg | Multi-touch | - | 5.01 lb / 2.27 kg | 5.35 lb / 2.43 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | 5.04 lb / 2.29 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.01 lb / 2.27 kg | 5.35 lb / 2.43 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>14.8 hr</td> <td>20 hr</td> <td>25.2 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad T550 20CJ

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20CJ000AUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ000BUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ000CUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ000GUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" FHD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ000LUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ000MUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 15.6" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ0005US | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ000EUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CJ000NUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|---|----------------|---------------------|----------------------|----------------------|--------------|---------|---------|---------|-----|------------|----------|---------|---------|-----|----------|---------|---------|-----|---------------------|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|---|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-5200U</td> <td rowspan="3">2</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>4.93 lb / 2.23 kg</td> <td>4.70 lb / 2.13 kg</td> <td>5.04 lb / 2.29 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.01 lb / 2.27 kg</td> <td>5.35 lb / 2.43 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | 5.04 lb / 2.29 kg | Multi-touch | - | 5.01 lb / 2.27 kg | 5.35 lb / 2.43 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | 5.04 lb / 2.29 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.01 lb / 2.27 kg | 5.35 lb / 2.43 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>14.8 hr</td> <td>20 hr</td> <td>25.2 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ThinkPad T550 20CJ (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam-era | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|----------------|---------|------------------|------|----------|-------------------|---------|------------------|---------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20CJ002UUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | Yes | 09/15 |
| 20CJ002VUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | Yes | 09/15 |

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications sheet](#)

| | | | | | | | |
|-------------------|---|------------|----------------|---------------------|-------|--------------|--|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | |
| | | | | | | | |
| | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory | | | | | | Weight ² Models: No + 6-cell, 3-cell + 3-cell, 3-cell + 6-cell Non-touch: 4.93 lb / 2.23 kg, 4.70 lb / 2.13 kg, 5.04 lb / 2.29 kg Multi-touch: -, 5.01 lb / 2.27 kg, 5.35 lb / 2.43 kg |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Case material Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | Smart card reader Optional: Smart card reader |
| Display | Some: 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | | | | | | Camera (optional) HD720p resolution, low light sensitive, fixed focus |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight |
| Optical | None | | | | | | UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Security chip Trusted Platform Module, TCG 1.2-compliant |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | vPro (optional) Intel vPro Technology |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Fingerprint reader Optional: Fingerprint reader on the palm rest, swipe sensor |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | Internal battery Optional: Integrated Li-Polymer 3-cell (44Wh) |
| | | | | | | | External battery Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) |
| | | | | | | | Max battery life ¹⁰ Models: 3-cell + 3-cell, 3-cell + 6-cell 48Wh, 3-cell + 6-cell 72Wh Battery life: 14.8 hr, 20 hr, 25.2 hr |
| | | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter |
| | | | | | | | Preload Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 |
| | | | | | | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID |

See footnotes for more detailed information

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ThinkPad T550 20CJ (Onsite)

| Model | Processor vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob- al | Ann date (m/y) |
|------------|----------------|----------|--------|-----------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------------|----------------------|----------|----------------|
| 20CJ0006US | i5-5300U vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ0008US | i5-5300U vPro | HD 5500 | 8GBx1 | 15.6" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ000FUS | i5-5300U vPro | HD 5500 | 4GBx1 | 15.6" HD | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ000HUS | i5-5300U vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ000JUS | i5-5300U vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ000KUS | i5-5300U vPro | HD 5500 | 4GBx1 | 15.6" FHD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ0007US | i7-5600U vPro | HD 5500 | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ0009US | i7-5600U vPro | HD 5500 | 8GBx1 | 15.6" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |
| 20CJ000DUS | i7-5600U vPro | HD 5500 | 8GBx1 | 15.6" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | OID | Yes 01/15 |

• For detailed platform specifications, please see [ThinkPad T550 Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | | | | | |
|---------------------|--|----------------------|----------------------|---------------------|-------|--------------|--|--------|-----------------|----------------------|----------------------|--------------|-------------------|-------------------|-------------------|-------------|---|-------------------|-------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor only, or Intel HD Graphics 5500 in processor and NVIDIA GeForce® 940M, 1GB memory | | | | | | Weight ² <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>4.93 lb / 2.23 kg</td> <td>4.70 lb / 2.13 kg</td> <td>5.04 lb / 2.29 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.01 lb / 2.27 kg</td> <td>5.35 lb / 2.43 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | 5.04 lb / 2.29 kg | Multi-touch | - | 5.01 lb / 2.27 kg | 5.35 lb / 2.43 kg |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | |
| Non-touch | 4.93 lb / 2.23 kg | 4.70 lb / 2.13 kg | 5.04 lb / 2.29 kg | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.01 lb / 2.27 kg | 5.35 lb / 2.43 kg | | | | | | | | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | Case material Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768), 200 / 220 nits, 350:1 / 400:1 contrast ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | | Smart card reader Optional: Smart card reader | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | | | | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | Ports Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Camera (optional) HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | |
| Optical | None | | | | | | Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | |
| Ethernet Bluetooth™ | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | |
| WLAN ⁴ | <i>Upg:</i> Wireless WAN upgradable <i>EM7345:</i> Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | |
| WWAN (optional) | <i>Upg:</i> Wireless WAN upgradable <i>EM7345:</i> Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Security chip Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | vPro (optional) Intel vPro Technology | | | | | | | | | | | | |
| | | | | | | | Fingerprint reader Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | |
| | | | | | | | Internal battery Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | |
| | | | | | | | External battery Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | |
| | | | | | | | Max battery life ¹⁰ <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>14.8 hr</td> <td>20 hr</td> <td>25.2 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | |
| Battery life | 14.8 hr | 20 hr | 25.2 hr | | | | | | | | | | | | | | | | |
| | | | | | | | AC adapter 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | |
| | | | | | | | Preload Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | |
| | | | | | | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | |



Lenovo® ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560



Lenovo ThinkPad T560

ThinkPad T560 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | | | |
|--|---|-------------------|--------------|-------------------|---------------------|-------------------|--------------|-----------------------|--|---|------------|-----------------|-----------------|
| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Smart card reader Media reader Ports Camera (optional) Audio support | Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | |
| | i5-6200U | 2 | 4 | 2.3 GHz | 2.8 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 520 | | | | | |
| | i5-6300U | | | 2.4 GHz | 3 GHz | 3MB | | | | | | | |
| i7-6600U | 2.6 GHz | | | 3.4 GHz | 4MB | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA 2016 latest GPU, 2GB memory; supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI) | | | | | | | | Keyboard UltraNav™ Security Security chip ThinkEngine | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | | | vPro (optional) Fingerprint reader | Intel vPro Technology Optional: Swipe style fingerprint reader on the palm rest | | | |
| Display | Some: 15.6" (396mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 160° viewing angle Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle | | | | | | | | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | |
| | | | | | | | | | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | |
| | | | | | | | | | Max battery life ¹⁰ (MobileMark® 2014) | Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh |
| | | | | | | | | | | Integrated model | 13.2 hr | 18.0 hr | 22.7 hr |
| | discrete model | 13.5 hr | 18.3 hr | 24.3 hr | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture | | | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | |
| Optical | None | | | | | | | | Limited warranty ¹² | One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | | | | | | |
| WLAN ⁴ | One of the following, configurable by model: • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | |
| WWAN (optional) | One of the following, configurable by model: • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | |
| Dimensions ³ Weight ² | WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm | | | | | | | | | | | | |
| | Models | No + 6-cell | | 3-cell + 3-cell | | 3-cell + 6-cell | | | | | | | |
| | Integrated Non-touch | 5.18 lb / 2.35 kg | | 4.88 lb / 2.22 kg | | 5.35 lb / 2.43 kg | | | | | | | |
| | Integrated Multi-touch | - | | 4.92 lb / 2.23 kg | | 5.33 lb / 2.42 kg | | | | | | | |
| | Discrete Non-touch | 5.27 lb / 2.39 kg | | 4.97 lb / 2.25 kg | | 5.44 lb / 2.47 kg | | | | | | | |
| | Discrete Multi-touch | - | | 5.00 lb / 2.27 kg | | 5.42 lb / 2.46 kg | | | | | | | |
| Case material | Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | |

ThinkPad T560 20FH (TopSeller)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|---------------|----------------------|--------|----------------|
| 20FH001UUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.5" 3K IPS | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001WUS | i7-6600U | vPro | HD 520 | 8GBx1 | 15.5" 3K IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH0021US | i5-6300U | vPro | HD 520 | 8GBx1 | 15.5" 3K IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH002KUS | i7-6600U | vPro | HD 520 | 8GBx2 | 15.5" 3K IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001RUS | i5-6300U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001TUS | i7-6600U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001XUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" FHD IPS | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001YUS | i5-6300U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH002NUS | i7-6600U | vPro | HD 520 | 8GBx2 | 15.6" FHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001QUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001SUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" HD | No | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH001VUS | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH0020US | i5-6300U | vPro | HD 520 | 4GBx1 | 15.6" HD | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FH002EUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|---|--|-----------------|---------------------|-----------------|-----------------|------------------|---------|---------|---------|----------------|------------|----------|---------|-------|-----|----------|---------|---------|-----|---|--------|-------------|-----------------|-----------------|----------------------|-------------------|-------------------|-------------------|------------------------|---|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|----------------------|---|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6200U</td> <td rowspan="4">2</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="4">DDR3L-1600</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR3L-1600 | i5-6300U | 2.4 GHz | 3 GHz | 3MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated Non-touch</td> <td>5.18 lb / 2.35 kg</td> <td>4.88 lb / 2.22 kg</td> <td>5.35 lb / 2.43 kg</td> </tr> <tr> <td>Integrated Multi-touch</td> <td>-</td> <td>4.92 lb / 2.23 kg</td> <td>5.33 lb / 2.42 kg</td> </tr> <tr> <td>Discrete Non-touch</td> <td>5.27 lb / 2.39 kg</td> <td>4.97 lb / 2.25 kg</td> <td>5.44 lb / 2.47 kg</td> </tr> <tr> <td>Discrete Multi-touch</td> <td>-</td> <td>5.00 lb / 2.27 kg</td> <td>5.42 lb / 2.46 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Integrated Non-touch | 5.18 lb / 2.35 kg | 4.88 lb / 2.22 kg | 5.35 lb / 2.43 kg | Integrated Multi-touch | - | 4.92 lb / 2.23 kg | 5.33 lb / 2.42 kg | Discrete Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | Discrete Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Non-touch | 5.18 lb / 2.35 kg | 4.88 lb / 2.22 kg | 5.35 lb / 2.43 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Multi-touch | - | 4.92 lb / 2.23 kg | 5.33 lb / 2.42 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA 2016 latest GPU, 2GB memory | Case material | Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | Optional: Swipe style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>13.2 hr</td> <td>18.0 hr</td> <td>22.7 hr</td> </tr> <tr> <td>discrete model</td> <td>13.5 hr</td> <td>18.3 hr</td> <td>24.3 hr</td> </tr> </tbody> </table> | Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | Integrated model | 13.2 hr | 18.0 hr | 22.7 hr | discrete model | 13.5 hr | 18.3 hr | 24.3 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated model | 13.2 hr | 18.0 hr | 22.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 13.5 hr | 18.3 hr | 24.3 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad T560 20FH (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20FH002JUS | i7-6600U | vPro | HD 520 | 8GBx2 | 15.5" 3K IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FH002DUS | i5-6300U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | MT | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FH002FUS | i7-6600U | vPro | HD 520 | 8GBx2 | 15.6" FHD IPS | MT | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FH002CUS | i5-6300U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FH002HUS | i7-6600U | vPro | HD 520 | 8GBx2 | 15.6" FHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FH002LUS | i7-6600U | vPro | HD 520 | 8GBx1 | 15.6" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FH002GUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |
| 20FH002MUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad T560 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--|---|--|----------------|---------------------|-----------------|-----------------|------------------|---------|---------|---------|----------------|------------|----------|---------|-------|-----|----------|---------|---------|-----|---|--------|-------------|-----------------|-----------------|----------------------|-------------------|-------------------|-------------------|------------------------|---|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|----------------------|---|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6200U</td> <td rowspan="3">2</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR3L-1600 | i5-6300U | 2.4 GHz | 3 GHz | 3MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Integrated Non-touch</td> <td>5.18 lb / 2.35 kg</td> <td>4.88 lb / 2.22 kg</td> <td>5.35 lb / 2.43 kg</td> </tr> <tr> <td>Integrated Multi-touch</td> <td>-</td> <td>4.92 lb / 2.23 kg</td> <td>5.33 lb / 2.42 kg</td> </tr> <tr> <td>Discrete Non-touch</td> <td>5.27 lb / 2.39 kg</td> <td>4.97 lb / 2.25 kg</td> <td>5.44 lb / 2.47 kg</td> </tr> <tr> <td>Discrete Multi-touch</td> <td>-</td> <td>5.00 lb / 2.27 kg</td> <td>5.42 lb / 2.46 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Integrated Non-touch | 5.18 lb / 2.35 kg | 4.88 lb / 2.22 kg | 5.35 lb / 2.43 kg | Integrated Multi-touch | - | 4.92 lb / 2.23 kg | 5.33 lb / 2.42 kg | Discrete Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | Discrete Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Integrated Non-touch | 5.18 lb / 2.35 kg | 4.88 lb / 2.22 kg | 5.35 lb / 2.43 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Graphics | Intel HD Graphics 520 in processor only, or Intel HD Graphics 520 in processor and NVIDIA 2016 latest GPU, 2GB memory | Case material | Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768), 220 nits, 400:1 contrast ratio Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 600:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | Optional: Swipe style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Integrated model</td> <td>13.2 hr</td> <td>18.0 hr</td> <td>22.7 hr</td> </tr> <tr> <td>discrete model</td> <td>13.5 hr</td> <td>18.3 hr</td> <td>24.3 hr</td> </tr> </tbody> </table> | Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | Integrated model | 13.2 hr | 18.0 hr | 22.7 hr | discrete model | 13.5 hr | 18.3 hr | 24.3 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Integrated model | 13.2 hr | 18.0 hr | 22.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| discrete model | 13.5 hr | 18.3 hr | 24.3 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(S22-2) © Lenovo



Lenovo® ThinkPad W541



Lenovo ThinkPad W541



Lenovo ThinkPad W541



Lenovo ThinkPad W541



Lenovo ThinkPad W541

ThinkPad W541 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|---------------------|---|------------|--------------|----------------|---------------------|---|--------------|------------------------|---|---|--------------------------|
| Processor | 4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor | | | | | | | | Dimensions ³ | 15.6" (WxDxH): 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Weight ² | 6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg) | |
| | i5-4210M | 2 | 4 | 2.6 GHz | 3.2 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 4600 | Case material | Glass-Fiber Reinforced Plastic | |
| | i5-4340M | | | 2.9 GHz | 3.6 GHz | 3MB | | | Smart card reader | Optional: Smart card reader | |
| | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | ExpressCard | One slot (ExpressCard/34) | | | | | |
| | i7-4710MQ | 2.5 GHz | 3.5 GHz | 6MB | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | |
| | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector | | | | | |
| | i7-4910MQ | 2.9 GHz | 3.9 GHz | 8MB | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | |
| | i7-4940MX | 3.1 GHz | 4 GHz | 8MB | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| Graphics | Intel HD Graphics 4600 in processor and NVIDIA Quadro® K1100M or K2100M, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort / Thunderbolt™; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 1920x1200@60Hz (VGA) | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | |
| | | | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | |
| | | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| | | | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| | | | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | |
| Chipset | Mobile Intel QM87 Express Chipset | | | | | | | | vPro (optional) | Intel vPro Technology | |
| Memory | dual-core model: 16GB max ⁷ , two 204-pin SO-DIMM sockets quad-core model: 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported All: PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable | | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | |
| | | | | | | | | | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest, LED indicator | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS | | | | | | | | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | |
| | | | | | | | | | Max battery life ¹⁰ | 6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr | |
| | | | | | | | | | AC adapter | dual-core: 135W AC adapter; quad-core: 170W AC adapter | |
| Multi-touch | None | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled | Some: Windows 8.1 64-bit |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ All: removable, upgradable, supports the second disk | | | | | | | | Windows 8 / 8.1 Pro 64-bit or | Some: Windows 8.1 Pro 64-bit | |
| M.2 SSD (opt) | 16GB M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | | | Windows 10 Pro 64 | Some: Windows 10 Pro 64 | |
| Optical (optional) | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | | | • Lenovo Solution Center | • Lenovo SHAREit | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high, bottom access | | | | | | | | • ThinkVantage Product Recovery | • Lenovo REACHit | |
| | | | | | | | | | • Rescue and Recovery™ | • Lenovo Companion | |
| | | | | | | | | | • ThinkVantage System Update | • Microsoft Office preloaded; | |
| | | | | | | | | | • Lenovo Cloud Storage by SugarSync | purchase a product key to activate | |
| | | | | | | | | | • PC Device Stage | • Norton Internet Security | |
| | | | | | | | | | • Adobe® Reader® | (30 days of virus definitions, | |
| | | | | | | | | | • Microsoft® Office preloaded; | Win8 w/o i5/i7 model) | |
| | | | | | | | | | purchase a product key to activate | • McAfee® LiveSafe™ (30-day trial, | |
| | | | | | | | | | • Norton™ Internet Security | Win8 i5/i7 and Win10 model) | |
| | | | | | | | | | (30 days of virus definitions) | | |
| | | | | | | | | | • Cyberlink PowerDVD (DVD±RW) | | |
| | | | | | | | | | • Cyberlink Power2Go (DVD±RW) | | |
| | | | | | | | | | • Cyberlink PowerProducer (DVD±RW) | | |
| | | | | | | | | | For ISV certifications, please visit www.lenovo.com/support/ISV | | |
| Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | | | Limited warranty ¹² | One of the following, configurable by model: | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | • 1-year depot repair service | | |
| WLAN ⁴ | One of the following, configurable by model: • 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11b/g/n, Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card • 11a/b/g/n, Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | • 3-year/1-yr battery depot repair service | | |
| | | | | | | | | | • 3-year/1-yr battery limited onsite service ²⁴ | | |
| | | | | | | | | | • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | |
| WWAN (optional) | One of the following, configurable by model (mutually exclusive with M.2 SSD): • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) • Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | |
| SIM card (optional) | One of the following, configurable by model: • AT&T® or Verizon® LTE (4G), contract required with service provider • User selectable, contract required with service provider | | | | | | | | | | |

ThinkPad W541 20EF (Discrete) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | RAID | Optical | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Color cali-brator | Bat-tery adapter (watt) | Power Preload | Base warranty (year) | Glob-al | Ann date (m/y) | |
|------------|-----------|------|----------|--------|--------------|-----------------|------|---------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|-------------------|-------------------------|---------------|----------------------|---------|----------------|-------|
| 20EF000HUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20EF000KUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20EF000NUS | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20EF000PUS | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20EF000JUS | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20EF000LUS | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20EF000MUS | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20EF001EUS | i7-4710MQ | No | K1100M | 8GBx2 | 15.6" FHD | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20EF001DUS | i7-4810MQ | vPro | K2100M | 8GBx2 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20EF002MUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 07/15 |
| 20EF002LUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-depot | No | 07/15 |
| 20EF002KUS | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | None | 9 | 170W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20EF002NUS | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20EF002PUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20EF002QUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20EF002RUS | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 DG Win7 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad W541 Platform Specifications sheet](#)

| | | | | | | | | | | |
|--------------------|---|---|----------------|---------------------|-------|-------------------|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Dimensions ³ | 15.6" (WxDxH): 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | |
| | i5-4210M | 2 | 2.6 GHz | 3.2 GHz | 3MB | DDR3L-1600 | Weight ² | 6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg) | | |
| | i5-4340M | | 2.9 GHz | 3.6 GHz | 3MB | | Case material | Glass-Fiber Reinforced Plastic | | |
| | i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | Smart card reader | Optional: Smart card reader | | |
| | i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | | ExpressCard | One slot (ExpressCard/34) | | |
| | i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | |
| | i7-4910MQ | | 2.9 GHz | 3.9 GHz | 8MB | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector | | |
| | i7-4940MX | | 3.1 GHz | 4 GHz | 8MB | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | |
| Graphics | Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | |
| Chipset | Mobile Intel QM87 Express Chipset | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | |
| Memory | dual-core model: 16GB max ⁷ , two 204-pin SO-DIMM sockets quad-core model: 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported All: PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | |
| Multi-touch | None | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | |
| Optical (optional) | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | Max battery life ¹⁰ | 6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr | | |
| Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | AC adapter | dual-core: 135W AC adapter; quad-core: 170W AC adapter | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 | | |
| WLAN ⁴ | 11b/g/n+BT: | ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card | | | | | Win8 / 8.1 64: | Windows 8 / 8.1 64-bit | | |
| | 7260 b/g/n+BT: | Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | Win8 / 8.1 P64: | Windows 8 / 8.1 Pro 64-bit | | |
| | 7260 a/b/g/n+BT: | Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | Win10 P64: | Windows 10 Pro 64 | | |
| | 7260 ac+BT: | Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | |

See footnotes for more detailed information

(KM15W-1) © Lenovo

ThinkPad W541 20EF (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | RAID | Optical | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Color cali-brator | Bat-tery adapter (watt) | Power | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|----------------|------|----------|--------|--------------|-----------------|------|---------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|-------------------|-------------------------|-------|-----------|----------------------|---------|----------------|
| 20EF000HUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |
| 20EF000KUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |
| 20EF000NUS | i7-4810MQ vPro | | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |
| 20EF000PUS | i7-4810MQ vPro | | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |
| 20EF000JUS | i7-4810MQ vPro | | K2100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |
| 20EF000LUS | i7-4810MQ vPro | | K2100M | 8GBx1 | 15.5" 3K IPS | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |
| 20EF000MUS | i7-4810MQ vPro | | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |
| 20EF001EUS | i7-4710MQ | No | K1100M | 8GBx2 | 15.6" FHD | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 03/15 |
| 20EF001DUS | i7-4810MQ vPro | | K2100M | 8GBx2 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 03/15 |
| 20EF002MUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 07/15 |
| 20EF002LUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 07/15 |
| 20EF002KUS | i7-4810MQ vPro | | K2100M | 8GBx1 | 15.5" 3K IPS | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | None | 9 | 170W | Win10 DG | Win7 3-depot | No | 09/15 |
| 20EF002NUS | i7-4810MQ vPro | | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win10 DG | Win7 3-depot | No | 09/15 |
| 20EF002PUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 DG | Win7 3-depot | No | 09/15 |
| 20EF002QUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 DG | Win7 3-depot | No | 09/15 |
| 20EF002RUS | i7-4810MQ vPro | | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 DG | Win7 3-depot | No | 09/15 |
| 20EF002TUS | i7-4810MQ vPro | | K2100M | 8GBx1 | 15.5" 3K IPS | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 P64 | 3-depot | No | 09/15 |
| 20EF002SUS | i7-4810MQ vPro | | K1100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 P64 | 3-depot | No | 09/15 |
| 20EF002UUS | i7-4710MQ | No | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad W541 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--------------------------------|--|----------------|---------------------|-------|--------------|----------|---|---------|---------|-----|------------|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|-------|-----|---|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-4210M</td> <td rowspan="3">2</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i5-4340M</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4710MQ</td> <td rowspan="4">4</td> <td>2.5 GHz</td> <td>3.5 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4810MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4910MQ</td> <td>2.9 GHz</td> <td>3.9 GHz</td> <td>8MB</td> </tr> <tr> <td>i7-4940MX</td> <td>3.1 GHz</td> <td>4 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-4210M | 2 | 2.6 GHz | 3.2 GHz | 3MB | DDR3L-1600 | i5-4340M | 2.9 GHz | 3.6 GHz | 3MB | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | i7-4910MQ | 2.9 GHz | 3.9 GHz | 8MB | i7-4940MX | 3.1 GHz | 4 GHz | 8MB | Dimensions ³ 15.6" (WxDxH): 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm Weight ² 6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg) Case material Glass-Fiber Reinforced Plastic |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | 2 | 2.6 GHz | 3.2 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4340M | | 2.9 GHz | 3.6 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4910MQ | | 2.9 GHz | 3.9 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4940MX | | 3.1 GHz | 4 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM87 Express Chipset | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | dual-core model: 16GB max ⁷ , two 204-pin SO-DIMM sockets quad-core model: 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported All: PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical (optional) | DVD burner, 9.5mm Ultrabay slim, removable | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | 6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | dual-core: 135W AC adapter; quad-core: 170W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad W541 20EG (Discrete)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | RAID | Optical | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Cam-era | Backlit key-board | Finger-print reader | NFC | Color cali-brator | Bat-tery adapter | Power (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|-----------|-----------|------|---------|------------------|----------------|----------|-------------------|---------|-------------------|---------------------|------|-------------------|------------------|--------------|-----------|----------------------|---------|----------------|
| 20EG0001US | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG | Win7 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad W541 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | |
|--------------------|--|------------|----------------|---------------------|-------------------|--------------|---|---|--|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | Dimensions ³ | 15.6" (WxDxH): 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm | | | | | |
| | i5-4210M | 2 | 2.6 GHz | 3.2 GHz | 3MB | DDR3L-1600 | | Weight ² | 6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg) | | | | | |
| | i5-4340M | | 2.9 GHz | 3.6 GHz | 3MB | | | Case material | Glass-Fiber Reinforced Plastic | | | | | |
| | i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | Smart card reader | Optional: Smart card reader | | | | | |
| | i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | | | ExpressCard | One slot (ExpressCard/34) | | | | | |
| | i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | |
| | i7-4910MQ | | 2.9 GHz | 3.9 GHz | 8MB | | | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector | | | | | |
| i7-4940MX | 3.1 GHz | | 4 GHz | 8MB | Camera (optional) | | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| Graphics | Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | |
| Chipset | Mobile Intel QM87 Express Chipset | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | |
| Memory | <i>dual-core model:</i> 16GB max ⁷ , two 204-pin SO-DIMM sockets <i>quad-core model:</i> 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported <i>All:</i> PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | |
| Display | <i>Some:</i> 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio <i>Some:</i> 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | |
| Multi-touch | None | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | | vPro (optional) | Intel vPro Technology | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | | | | | | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | |
| Optical (optional) | DVD burner, 9.5mm Ultrabay slim, removable | | | | | | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | | | | | | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | |
| Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | | | | | | Max battery life ¹⁰ | 6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | AC adapter | <i>dual-core:</i> 135W AC adapter; <i>quad-core:</i> 170W AC adapter | | | | | | |
| WLAN ⁴ | <i>11b/g/n+BT:</i> ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | Preload | <i>Win8 / 8.1 / 10 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 <i>Win8 / 8.1 64:</i> Windows 8 / 8.1 64-bit <i>Win8 / 8.1 P64:</i> Windows 8 / 8.1 Pro 64-bit <i>Win10 P64:</i> Windows 10 Pro 64 | | | | | | |
| WWAN (optional) | <i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | |

See footnotes for more detailed information

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ThinkPad W541 20EG (Discrete) - Onsite

Product Specifications Reference (PSREF)

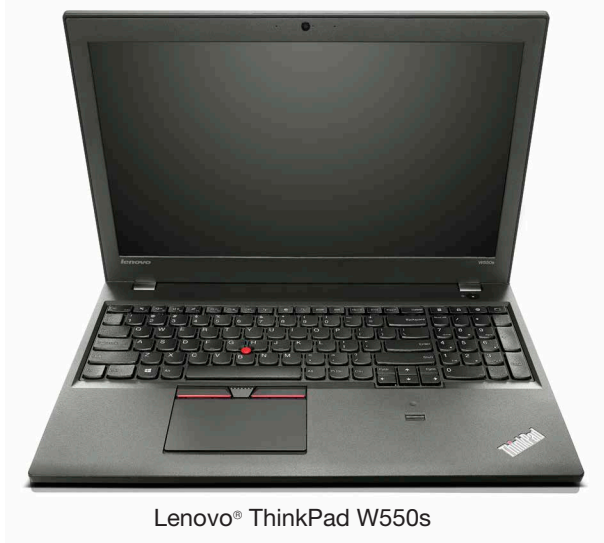
| Model | Processor | vPro | Graphics | Memory | Display | Storage | RAID | Optical | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | NFC | Color calibrator | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) | |
|------------|-----------|------|----------|--------|--------------|-----------------|------|---------|------------------|----------------|----------|-------------------|--------|-------------------|---------------------|------|------------------|---------------|----------------------|----------------|----------------------|---------|----------------|-------|
| 20EG0002US | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20EG0003US | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20EG0004US | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.6" FHD | 256G SSD eDrive | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20EG000HUS | i7-4940MX | vPro | K2100M | 8GBx4 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20EG0006US | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG0009US | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG000BUS | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG000EUS | i7-4810MQ | vPro | K1100M | 8GBx1 | 15.5" 3K IPS | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG0005US | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG0007US | i7-4910MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG0008US | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG000AUS | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.6" FHD | 512G SSD | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG000CUS | i7-4810MQ | vPro | K2100M | 8GBx1 | 15.5" 3K IPS | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | None | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20EG000DUS | i7-4910MQ | vPro | K2100M | 8GBx1 | 15.6" FHD | 500G 7200 | No | DVD±RW | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | X-Rite | 9 | 170W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |

• For detailed platform specifications, please see [ThinkPad W541 Platform Specifications sheet](#)

| Processor | 4th Generation Intel® Core™ i5 / i7 / i7 Extreme Processor | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|--------------------------------|--|----------------|---------------------|-------|--------------|----------|---|---------|---------|-----|------------|----------|---------|---------|-----|----------|---------|---------|-----|-----------|---|---------|---------|-----|-----------|---------|---------|-----|-----------|---------|---------|-----|-----------|--|---------|-------|-----|---|---|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-4210M</td> <td rowspan="3">2</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>3MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i5-4340M</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600M</td> <td>2.9 GHz</td> <td>3.6 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-4710MQ</td> <td rowspan="3">4</td> <td>2.5 GHz</td> <td>3.5 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4810MQ</td> <td>2.8 GHz</td> <td>3.8 GHz</td> <td>6MB</td> </tr> <tr> <td>i7-4910MQ</td> <td>2.9 GHz</td> <td>3.9 GHz</td> <td>8MB</td> </tr> <tr> <td>i7-4940MX</td> <td></td> <td>3.1 GHz</td> <td>4 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-4210M | 2 | 2.6 GHz | 3.2 GHz | 3MB | DDR3L-1600 | i5-4340M | 2.9 GHz | 3.6 GHz | 3MB | i7-4600M | 2.9 GHz | 3.6 GHz | 4MB | i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | i7-4810MQ | 2.8 GHz | 3.8 GHz | 6MB | i7-4910MQ | 2.9 GHz | 3.9 GHz | 8MB | i7-4940MX | | 3.1 GHz | 4 GHz | 8MB | Dimensions ³ Weight ² Case material | 15.6" (WxDxH): 14.83" x 9.77" x 1.10-1.16"; 376.6mm x 248.1mm x 27.9-29.5mm 6-cell: starting at 5.57 lb (2.53 kg); 9-cell: starting at 5.95 lb (2.70 kg) Glass-Fiber Reinforced Plastic |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210M | 2 | 2.6 GHz | 3.2 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4340M | | 2.9 GHz | 3.6 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600M | | 2.9 GHz | 3.6 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4710MQ | 4 | 2.5 GHz | 3.5 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4810MQ | | 2.8 GHz | 3.8 GHz | 6MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4910MQ | | 2.9 GHz | 3.9 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4940MX | | 3.1 GHz | 4 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4600 and NVIDIA Quadro® K1100M or K2100M, 2GB memory | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel QM87 Express Chipset | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | dual-core model: 16GB max ⁷ , two 204-pin SO-DIMM sockets quad-core model: 32GB max, four 204-pin SO-DIMM sockets, only 4+4, 8+8, 4+4+4+4, and 8+8+8+8 combinations supported All: PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Two USB 3.0, two USB 2.0 (one Always On), VGA, Mini DisplayPort / Thunderbolt, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot, exclusive with WWAN card | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical (optional) | DVD burner, 9.5mm Ultrabay slim, removable | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ultrabay | One modular bay for removable devices (right side, cold swap), 9.5mm high | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I217-LM (Clarkville) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery type | Li-Ion 6-cell (56Wh) or 9-cell (99.9Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | 6-cell: up to 6.2 hr; 9-cell: up to 11.1 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | dual-core: 135W AC adapter; quad-core: 170W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8 / 8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit or Windows 10 Pro 64 Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(KM15W-3) © Lenovo



Lenovo® ThinkPad W550s



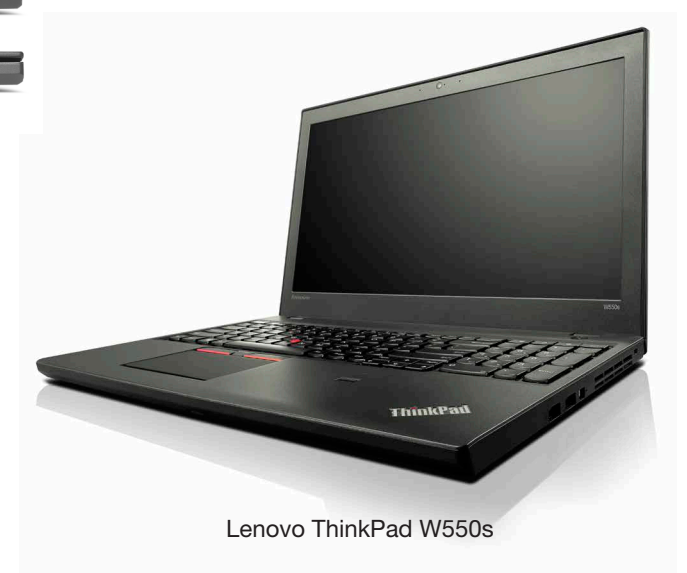
Lenovo ThinkPad W550s



Lenovo ThinkPad W550s



Lenovo ThinkPad W550s



Lenovo ThinkPad W550s

ThinkPad W550s Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Smart card reader Media reader Ports Camera Audio support | Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | |
|--------------------------|---|----------------------|----------------------|----------------|---------------------|-------|--------------|------------------------|--|---|---|-----------------|-----------------|----------------------|----------------------|-------------------|-------------|---------|-------------------|-------------------|--|--|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | |
| | i5-5300U | 2 | 4 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 5500 | | | | | | | | | | | | | | |
| | i7-5500U | | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 2560x1600@60Hz (VGA) | | | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Security Security chip ThinkEngine | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS | | | | | | | | vPro (optional) Fingerprint reader | Intel vPro Technology Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | | | | | | | | Internal battery External battery Max battery life ¹⁰ | Optional: Integrated Li-Polymer 3-cell (44Wh) Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory Single-sided M.2 SSD, via M.2 card slot None | | | | | | | | | | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>12.7 hr</td> <td>17.3 hr</td> <td>21.8 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | |
| Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) Optical | | | | | | | | | AC adapter Preload | 65W Slim or 65W AC adapter Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update PC Device Stage Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) For ISV certifications, please visit www.lenovo.com/support/ISV | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | One of the following, configurable by model: <ul style="list-style-type: none"> 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | One of the following, configurable by model: <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | |
| Dimensions ³ | 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | Environment | EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.01 lb / 2.27 kg</td> <td>4.78 lb / 2.17 kg</td> <td>5.12 lb / 2.32 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.09 lb / 2.31 kg</td> <td>5.43 lb / 2.46 kg</td> </tr> </tbody> </table> | | | | | | | | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | |
| Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg | | | | | | | | | | | | | | | | | | | |
| Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | |

ThinkPad W550s 20E2 (Discrete) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) | | |
|------------|----------------|----------|--------|---------|--------------|---------|----------------|------------------|------------|----------|-------------------|--------|-------------------|---------------------|-------------------------|----------------------|---------|----------------------|---------|----------------|----|-------|
| 20E2000TUS | i7-5500U | No | K620M | 8GBx1 | 15.5" 3K IPS | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000VUS | i7-5500U | No | K620M | 8GBx2 | 15.5" 3K IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000XUS | i7-5500U | No | K620M | 8GBx1 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000YUS | i7-5500U | No | K620M | 8GBx1 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E20010US | i7-5500U | No | K620M | 8GBx1 | 15.5" 3K IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E20017US | i7-5500U | No | K620M | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | None | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000QUS | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | MT | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000RUS | i7-5600U | vPro | K620M | 8GBx2 | 15.5" 3K IPS | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000SUS | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000UUS | i7-5600U | vPro | K620M | 8GBx2 | 15.6" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E2000WUS | i7-5600U | vPro | K620M | 8GBx1 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(48wh) | 65W | Win8.1 DG | Win7 | 3-depot | No | 01/15 |
| 20E20019US | i7-5600U | vPro | K620M | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 03/15 |
| 20E2001AUS | i7-5600U | vPro | K620M | 8GBx1 | 15.6" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 03/15 |
| 20E2001BUS | i7-5500U | No | K620M | 8GBx1 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 04/15 |
| 20E2001CUS | i7-5500U | No | K620M | 8GBx1 | 15.5" 3K IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG | Win7 | 3-depot | No | 04/15 |
| 20E20023US | i7-5500U | No | K620M | 8GBx1 | 15.5" 3K IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 DG | Win7 | 3-depot | No | 09/15 |
| 20E20021US | i7-5500U | No | K620M | 8GBx1 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 65W | Win10 DG | Win7 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|---|----------------|---------------------|----------------------|----------------------|--------------|---------|---------|---------|-----|------------|----------|---------|-------|-----|----------|---------|---------|-----|---------------------|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|---|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-5300U</td> <td rowspan="3">2</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> </tr> <tr> <td>i7-5500U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-5300U | 2 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | i7-5500U | 2.4 GHz | 3 GHz | 4MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.01 lb / 2.27 kg</td> <td>4.78 lb / 2.17 kg</td> <td>5.12 lb / 2.32 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.09 lb / 2.31 kg</td> <td>5.43 lb / 2.46 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | 2 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>12.7 hr</td> <td>17.3 hr</td> <td>21.8 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 65W Slim or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(SZ1W-1) © Lenovo

ThinkPad W550s 20E2 (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|-------------------|---------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20E20022US | i7-5500U | No | K620M | 8GBx1 | 15.5" 3K IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | | | | | |
|-------------------|--|----------------------|----------------------|---------------------|-------|--------------|--|--------|-----------------|----------------------|----------------------|--------------|-------------------|-------------------|-------------------|-------------|---|-------------------|-------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | |
| | i5-5300U | 2 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory | | | | | | Weight ² <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.01 lb / 2.27 kg</td> <td>4.78 lb / 2.17 kg</td> <td>5.12 lb / 2.32 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.09 lb / 2.31 kg</td> <td>5.43 lb / 2.46 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | |
| Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | | Case material Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | Smart card reader Optional: Smart card reader Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector Camera HD720p resolution, low light sensitive, fixed focus Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack Keyboard 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch Security Power-on password, hard disk password, supervisor password, security keyhole Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology Fingerprint reader Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Internal battery Optional: Integrated Li-Polymer 3-cell (44Wh) External battery Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) Max battery life ¹⁰ <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>12.7 hr</td> <td>17.3 hr</td> <td>21.8 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | |
| Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | | | | | | | | | | | |
| | AC adapter 65W Slim or 65W AC adapter | | | | | | | | | | | | | | | | | | |
| | Preload Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | |
| | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(SZ1W-4) © Lenovo

ThinkPad W550s 20E1 (Discrete) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-------------|----------|---------|------------------|--------|----------|-------------------|--------|-------------------|---------------------|-------------------------|----------------------|------------|----------------------|---------|----------------|
| 20E1000WUS | i7-5600U | vPro | K620M | 8GBx2 | 15.5" 3K IPS | MT | 512G SSD | None | 7265 ac+BT | EM7345 | AT&T | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 P64 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications sheet](#)

| | | | | | | | |
|-------------------|--|------------|----------------|---------------------|-------|--------------|---|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i5-5300U | 2 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | |
| Graphics | Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory | | | | | | Weight ² Models: No + 6-cell, 3-cell + 3-cell, 3-cell + 6-cell Non-touch: 5.01 lb / 2.27 kg, 4.78 lb / 2.17 kg, 5.12 lb / 2.32 kg Multi-touch: -, 5.09 lb / 2.31 kg, 5.43 lb / 2.46 kg |
| Chipset | Intel SoC (System on Chip) platform | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | Case material Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | | | | | | Smart card reader Optional: Smart card reader |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | Media reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Ports Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector |
| Optical | None | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | Camera HD720p resolution, low light sensitive, fixed focus |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | Audio support HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | Keyboard UltraNav™ 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch |
| | | | | | | | |
| | | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole |
| | | | | | | | |
| | | | | | | | Security chip Trusted Platform Module, TCG 1.2-compliant vPro (optional) Intel vPro Technology Fingerprint reader Optional: Fingerprint reader on the palm rest, swipe sensor |
| | | | | | | | |
| | | | | | | | Internal battery Optional: Integrated Li-Polymer 3-cell (44Wh) External battery Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) Max battery life ¹⁰ Models: 3-cell + 3-cell, 3-cell + 6-cell 48Wh, 3-cell + 6-cell 72Wh Battery life: 12.7 hr, 17.3 hr, 21.8 hr |
| | | | | | | | |
| | | | | | | | AC adapter 65W Slim or 65W AC adapter |
| | | | | | | | |
| | | | | | | | Preload Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 |
| | | | | | | | |
| | | | | | | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID |

See footnotes for more detailed information

(SZ1W-2) © Lenovo

ThinkPad W550s 20E1 (Discrete) - Onsite

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) | |
|------------|-----------|------|----------|--------|--------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|-------------------|---------------------|-------------------------|----------------------|----------------|----------------------|---------|----------------|-------|
| 20E10000US | i7-5600U | vPro | K620M | 8GBx1 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E10001US | i7-5600U | vPro | K620M | 8GBx1 | 15.6" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E10002US | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | MT | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E10003US | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E10004US | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E10005US | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E10006US | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E1000GUS | i7-5600U | vPro | K620M | 8GBx2 | 15.5" 3K IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | No | 01/15 | |
| 20E10007US | i7-5600U | vPro | K620M | 8GBx1 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20E10008US | i7-5600U | vPro | K620M | 8GBx2 | 15.5" 3K IPS | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20E10009US | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20E1000AUS | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20E1000BUS | i7-5600U | vPro | K620M | 8GBx2 | 15.5" 3K IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20E1000CUS | i7-5600U | vPro | K620M | 8GBx2 | 15.6" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20E1000DUS | i7-5600U | vPro | K620M | 8GBx1 | 15.5" 3K IPS | MT | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win8.1 DG Win7 | 3-onsite | OID | Yes | 01/15 |
| 20E10010US | i7-5600U | vPro | K620M | 8GBx1 | 15.6" FHD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 65W | Win8.1 DG Win7 | 3-onsite | No | 03/15 | |
| 20E10019US | i7-5600U | vPro | K620M | 8GBx2 | 15.6" FHD | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(72wh) | 65W | Win10 DG Win7 | 3-onsite | OID | Yes | 09/15 |

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|---|----------------|---------------------|----------------------|----------------------|--------------|---------|---------|---------|-----|------------|----------|---------|-------|-----|----------|---------|---------|-----|---------------------|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|---|-------------------|-------------------|
| Processor | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-5300U</td> <td rowspan="3">2</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> </tr> <tr> <td>i7-5500U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-5300U | 2 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | i7-5500U | 2.4 GHz | 3 GHz | 4MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.01 lb / 2.27 kg</td> <td>4.78 lb / 2.17 kg</td> <td>5.12 lb / 2.32 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.09 lb / 2.31 kg</td> <td>5.43 lb / 2.46 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | 2 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 5.01 lb / 2.27 kg | 4.78 lb / 2.17 kg | 5.12 lb / 2.32 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.09 lb / 2.31 kg | 5.43 lb / 2.46 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Fingerprint reader | Optional: Fingerprint reader on the palm rest, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>12.7 hr</td> <td>17.3 hr</td> <td>21.8 hr</td> </tr> </tbody> </table> | Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 12.7 hr | 17.3 hr | 21.8 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 65W Slim or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(SZ1W-3) © Lenovo

ThinkPad W550s 20E1 (Discrete) - Onsite (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) | |
|------------|-----------|------|----------|--------|--------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|-----------|----------------------|---------|----------------|-------|
| 20E10018US | i7-5600U | vPro | K620M | 8GBx2 | 15.5" 3K IPS | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 P64 | 3-onsite | OID | Yes | 09/15 |
| 20E1001BUS | i7-5600U | vPro | K620M | 8GBx2 | 15.5" 3K IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 P64 | 3-onsite | | No | 09/15 |
| 20E1001AUS | i7-5600U | vPro | K620M | 8GBx2 | 15.6" FHD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+6(48wh) | 65W | Win10 P64 | 3-onsite | | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad W550s Platform Specifications sheet](#)

| | | | | | | | |
|-------------------|--|------------|----------------|---------------------|-------|--------------|---|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ 15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i5-5300U | 2 | 2.3 GHz | 2.9 GHz | 3MB | DDR3L-1600 | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | |
| Graphics | Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory | | | | | | Weight ² |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Models |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | No + 6-cell |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 300 nits, 400:1 or 500:1 contrast ratio Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | | | | | | 3-cell + 3-cell |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 315 nits | | | | | | 3-cell + 6-cell |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Multi-touch |
| M.2 SSD (opt) | Single-sided M.2 SSD, via M.2 card slot | | | | | | - |
| Optical | None | | | | | | 5.09 lb / 2.31 kg |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | | 5.43 lb / 2.46 kg |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Case material |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | Smart card reader: Optional: Smart card reader |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | Media reader: 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| | | | | | | | Ports: Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector |
| | | | | | | | Camera: HD720p resolution, low light sensitive, fixed focus |
| | | | | | | | Audio support: HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack |
| | | | | | | | Keyboard: 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight |
| | | | | | | | UltraNav™: TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch |
| | | | | | | | Security: Power-on password, hard disk password, supervisor password, security keyhole |
| | | | | | | | Security chip: Trusted Platform Module, TCG 1.2-compliant |
| | | | | | | | vPro (optional): Intel vPro Technology |
| | | | | | | | Fingerprint reader: Optional: Fingerprint reader on the palm rest, swipe sensor |
| | | | | | | | Internal battery: Optional: Integrated Li-Polymer 3-cell (44Wh) |
| | | | | | | | External battery: Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) |
| | | | | | | | Max battery life ¹⁰ |
| | | | | | | | Models |
| | | | | | | | 3-cell + 3-cell |
| | | | | | | | 3-cell + 6-cell 48Wh |
| | | | | | | | 3-cell + 6-cell 72Wh |
| | | | | | | | Battery life |
| | | | | | | | 12.7 hr |
| | | | | | | | 17.3 hr |
| | | | | | | | 21.8 hr |
| | | | | | | | AC adapter: 65W Slim or 65W AC adapter |
| | | | | | | | Preload |
| | | | | | | | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 |
| | | | | | | | Win8.1 64: Windows 8.1 64-bit |
| | | | | | | | Win8.1 P64: Windows 8.1 Pro 64-bit |
| | | | | | | | Win10 P64: Windows 10 Pro 64 |
| | | | | | | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID |

See footnotes for more detailed information

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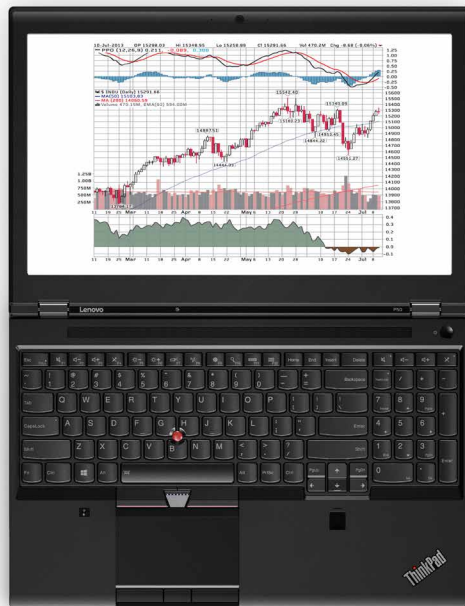
Lenovo® ThinkPad P50



Lenovo ThinkPad P50



Lenovo ThinkPad P50



Lenovo ThinkPad P50



Lenovo ThinkPad P50

ThinkPad P50 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | |
|-------------------------|---|-----------------|--------------|-----------------|---------------------|---------------|--------------|--------------------------------|--|--|
| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | | | | | | | Smart card reader | Optional: Smart card reader | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | ExpressCard | One slot (ExpressCard/34) |
| | i7-6700HQ | 4 | 8 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | Intel HD Graphics 530 | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card |
| | i7-6820HQ | | | 2.7 GHz | 3.6 GHz | 8MB | | | Ports | Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector |
| | E3-1505M v5 | | | 2.8 GHz | 3.7 GHz | 8MB | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus |
| E3-1535M v5 | 2.9 GHz | | | 3.8 GHz | 8MB | Audio support | | | HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports four independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI) | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | | | | | | | UltraNav™ | 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 600:1 contrast ratio, 45% gamut, 160° viewing angle | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| | Some: 15.6" (396mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 100% gamut, 178° viewing angle | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 220 nits | | | | | | | vPro (optional) | Intel vPro Technology | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | | | | | | | Fingerprint reader | Touch style fingerprint reader on the palm rest | |
| Storage | Up to 3 drives (two M.2 SSD and one HDD) | | | | | | | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | |
| | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | Battery | Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh) | |
| Optical | None | | | | | | | Max battery life ¹⁰ | (MobileMark® 2014) | |
| | None | | | | | | | Model | 4-cell | 6-cell |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) | | | | | | | Discrete Graphics | 7.1 hr | 9.7 hr |
| | vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | Hybrid Graphics | 9.6 hr | 13.2 hr |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | | AC adapter | 170W AC adapter | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | Preload | Some: Genuine Windows® 7 Professional 64 | Windows 10 Pro 64 |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | | | | | | | | Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo Companion Lenovo Setting Microsoft Office preloaded; purchase a product key to activate McAfee® LiveSafe™ (30-day trial) |
| SIM card | Micro-SIM card slot | | | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate McAfee® LiveSafe™ (30-day trial) | |
| Dimensions ³ | WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm | | | | | | | | | |
| Weight ² | Models | 4-cell | | 6-cell | | | | | | |
| | Non-touch | 5.6 lb / 2.55kg | | 5.9 lb / 2.67kg | | | | | | |
| | Multi-touch | 6.2 lb / 2.82kg | | 6.4 lb / 2.90kg | | | | | | |
| Case material | Display cover: Glass-Fiber Reinforced Plastic; | | | | | | | Limited warranty ¹² | One of the following, configurable by model: | |
| | Bottom: Magnesium/Aluminum | | | | | | | | <ul style="list-style-type: none"> 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | |
| | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | |
| | | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | |

ThinkPad P50 20EN (Discrete) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Pen | Storage | RAID | WLAN & Bluetooth | WWAN | SIM card reader | Smart card reader | Camera | Backlit key-board | Finger-print reader | Color calibration | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-------------|------|----------|----------------|---------------|-------------|------|------------------------|------|------------------|------|-----------------|-------------------|--------|-------------------|---------------------|-------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20EN001DUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" 4K IPS | No | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001EUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" 4K IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001FUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" 4K IPS | No | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001QUS | E3-1505M v5 | vPro | M2000M | 16GBx1 non-ECC | 15.6" 4K IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001RUS | E3-1505M v5 | vPro | M2000M | 16GBx1 non-ECC | 15.6" 4K IPS | No | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN0012US | i7-6700HQ | No | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN0013US | i7-6700HQ | No | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN0014US | i7-6700HQ | No | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 1T 5400 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN0015US | i7-6700HQ | No | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN0016US | i7-6820HQ | vPro | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN0017US | i7-6820HQ | vPro | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 1T 5400 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN0018US | i7-6820HQ | vPro | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | Dimensions ³ | WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|----------------|---------------------|--------|--------------|-------------------|--------|---------|-----------------|--------|-----------|-----------|---------|---------|-----|-------------|---------|---------|-----|-------------|---------|---------|-----|---------------------|--|--|--------|--------|--------|-----------|-----------------|-----------------|-------------|-----------------|-----------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1505M v5 | | 2.8 GHz | 3.7 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1535M v5 | | 2.9 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 5.6 lb / 2.55kg | 5.9 lb / 2.67kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 6.2 lb / 2.82kg | 6.4 lb / 2.90kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory) | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 220 nits | Audio support | HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | Fingerprint reader | Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Battery | Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Model</th> <th>4-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Discrete Graphics</td> <td>7.1 hr</td> <td>9.7 hr</td> </tr> <tr> <td>Hybrid Graphics</td> <td>9.6 hr</td> <td>13.2 hr</td> </tr> </tbody> </table> | | Model | 4-cell | 6-cell | Discrete Graphics | 7.1 hr | 9.7 hr | Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Graphics | 7.1 hr | 9.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | Micro-SIM card slot | AC adapter | 170W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | Preload | Win7 P64: Genuine Windows® 7 Professional 64 Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad | Limited warranty ¹² | 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(WT1-1) © Lenovo

ThinkPad P50 20EN (Discrete) - TopSeller - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Pen | Storage | RAID | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Color calibration | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-------------|------|----------|----------------|---------------|-------------|------|------------------------|------|------------------|------|----------|-------------------|--------|-------------------|---------------------|-------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20EN0019US | i7-6820HQ | vPro | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001AUS | i7-6820HQ | vPro | M2000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001BUS | i7-6820HQ | vPro | M2000M | 8GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001CUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001SUS | E3-1505M v5 | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN001TUS | E3-1505M v5 | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN002FUS | i7-6700HQ | No | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN002HUS | i7-6700HQ | No | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN002KUS | i7-6820HQ | vPro | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20EN002MUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | Dimensions ³ | WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|----------------|---------------------|--------|-------------------|-----------|--------|-----------------|---------|---------|-----------|-----------|---------|---------|-----|-------------|---------|---------|-----|-------------|---------|---------|-----|---------------------|--|--------|--------|--------|-----------|-----------------|-----------------|-------------|-----------------|-----------------|
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| i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1505M v5 | | 2.8 GHz | 3.7 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1535M v5 | | 2.9 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Multi-touch | 6.2 lb / 2.82kg | 6.4 lb / 2.90kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory) | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 220 nits | Audio support | HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | Fingerprint reader | Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Battery | Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Model</th> <th>4-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Discrete Graphics</td> <td>7.1 hr</td> <td>9.7 hr</td> </tr> <tr> <td>Hybrid Graphics</td> <td>9.6 hr</td> <td>13.2 hr</td> </tr> </tbody> </table> | Model | 4-cell | 6-cell | Discrete Graphics | 7.1 hr | 9.7 hr | Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Graphics | 7.1 hr | 9.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | Micro-SIM card slot | AC adapter | 170W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | Preload | Win7 P64: Genuine Windows® 7 Professional 64 Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad | Limited warranty ¹² | 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad P50 20EN (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Pen | Storage | RAID | WLAN & Bluetooth | WWAN | SIM card reader | Smart card reader | Camera | Backlit keyboard | Finger print reader | Color calibration | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-------------|------|----------|----------------|---------------|-------------|------|------------------------|------|------------------|------|-----------------|-------------------|--------|------------------|---------------------|-------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20EN002QUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" 4K IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001GUS | i7-6700HQ | No | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | MT | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001HUS | i7-6700HQ | No | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | MT | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001JUS | i7-6820HQ | vPro | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | MT | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001KUS | i7-6820HQ | vPro | M1000M | 8GBx1 non-ECC | 15.6" FHD IPS | MT | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001LUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | MT | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001MUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | MT | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001NUS | E3-1505M v5 | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | MT | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN001PUS | E3-1505M v5 | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | MT | None | 512G SSD PCIe NVMe | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN002GUS | i7-6700HQ | No | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 500G 7200 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN002JUS | i7-6700HQ | No | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |
| 20EN002LUS | i7-6820HQ | vPro | M1000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | Dimensions ³ | WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|--|---|---------------------|--------|-------------------|-----------|--------|-----------------|---------|---------|-----------|-----------|---------|---------|-----|-------------|---------|---------|-----|-------------|---------|---------|-----|---------------------|--|--------|--------|--------|-----------|-----------------|-----------------|-------------|-----------------|-----------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i7-6700HQ</td> <td rowspan="4">4</td> <td>2.6 GHz</td> <td>3.5 GHz</td> <td>6MB</td> <td rowspan="4">DDR4-2133</td> </tr> <tr> <td>i7-6820HQ</td> <td>2.7 GHz</td> <td>3.6 GHz</td> <td>8MB</td> </tr> <tr> <td>E3-1505M v5</td> <td>2.8 GHz</td> <td>3.7 GHz</td> <td>8MB</td> </tr> <tr> <td>E3-1535M v5</td> <td>2.9 GHz</td> <td>3.8 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | i7-6820HQ | 2.7 GHz | 3.6 GHz | 8MB | E3-1505M v5 | 2.8 GHz | 3.7 GHz | 8MB | E3-1535M v5 | 2.9 GHz | 3.8 GHz | 8MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>4-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.6 lb / 2.55kg</td> <td>5.9 lb / 2.67kg</td> </tr> <tr> <td>Multi-touch</td> <td>6.2 lb / 2.82kg</td> <td>6.4 lb / 2.90kg</td> </tr> </tbody> </table> | Models | 4-cell | 6-cell | Non-touch | 5.6 lb / 2.55kg | 5.9 lb / 2.67kg | Multi-touch | 6.2 lb / 2.82kg | 6.4 lb / 2.90kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1505M v5 | | 2.8 GHz | 3.7 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1535M v5 | | 2.9 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 5.6 lb / 2.55kg | 5.9 lb / 2.67kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | 6.2 lb / 2.82kg | 6.4 lb / 2.90kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory) | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 220 nits | Audio support | HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | Fingerprint reader | Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Battery | Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Model</th> <th>4-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Discrete Graphics</td> <td>7.1 hr</td> <td>9.7 hr</td> </tr> <tr> <td>Hybrid Graphics</td> <td>9.6 hr</td> <td>13.2 hr</td> </tr> </tbody> </table> | Model | 4-cell | 6-cell | Discrete Graphics | 7.1 hr | 9.7 hr | Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Graphics | 7.1 hr | 9.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | Micro-SIM card slot | AC adapter | 170W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | Preload | Win7 P64: Win10 DG Win7: Win10 P64: | Genuine Windows® 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad | Limited warranty ¹² | 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(WT1-3) © Lenovo

ThinkPad P50 20EN (Discrete) - TopSeller (Windows 10) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Pen | Storage | RAID | WLAN & Bluetooth | WLAN | Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit key-board | Finger-print reader | Color calibration | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global (year) | Ann date (m/y) |
|------------|-------------|------|----------|----------------|---------------|-------------|------|------------------------|------|------------------|------|-----------|------|----------|-------------------|--------|-------------------|---------------------|-------------------|---------------|----------------------|---------|----------------------|---------------|----------------|
| 20EN002NUS | i7-6820HQ | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 | | |
| 20EN002PUS | E3-1505M v5 | vPro | M2000M | 16GBx1 non-ECC | 15.6" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 6 | 170W | Win10 P64 | 3-depot | No | 11/15 | | |

• For detailed platform specifications, please see [ThinkPad P50 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | Dimensions ³ | WxDxH: 14.86" x 9.93" x 0.96-1.16"; 377.4mm x 252.3mm x 24.5-29.4mm WxDxH(Touch): 14.86" x 9.93" x 1.02-1.21"; 377.4mm x 252.3mm x 25.8-30.7mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|---|---------------------|--------|-------------------|-----------|--------|-----------------|---------|---------|-----------|-----------|---------|---------|-----|-------------|---------|---------|-----|-------------|---------|---------|-----|---------------------|--|--------|--------|--------|-----------|-----------------|-----------------|-------------|-----------------|-----------------|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1505M v5 | | 2.8 GHz | 3.7 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E3-1535M v5 | | 2.9 GHz | 3.8 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Multi-touch | 6.2 lb / 2.82kg | 6.4 lb / 2.90kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M1000M (2GB memory) or M2000M (4GB memory) | Case material | Display cover: Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | ExpressCard | One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), IPS, 250 nits, 600:1 contrast ratio, 45% gamut, 160° viewing angle Some: 15.6" (396mm) 4K (3840x2160), IPS, 300 nits, 1000:1 contrast ratio, 100% gamut, 178° viewing angle | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 220 nits | Ports | Four USB 3.0 (one Always On), USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Up to 3 drives (two M.2 SSD and one HDD) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | Audio support | HD Audio, Realtek® ALC3268 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | Micro-SIM card slot | Battery | Lithium Polymer 4-cell (66Wh) or 6-cell (90Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Model</th> <th>4-cell</th> <th>6-cell</th> </tr> </thead> <tbody> <tr> <td>Discrete Graphics</td> <td>7.1 hr</td> <td>9.7 hr</td> </tr> <tr> <td>Hybrid Graphics</td> <td>9.6 hr</td> <td>13.2 hr</td> </tr> </tbody> </table> | Model | 4-cell | 6-cell | Discrete Graphics | 7.1 hr | 9.7 hr | Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | 4-cell | 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discrete Graphics | 7.1 hr | 9.7 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hybrid Graphics | 9.6 hr | 13.2 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | 3-button TrackPoint® pointing device and crystal silk surface multi-touch touchpad | (MobileMark® 2014) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 170W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win7 P64: Win10 DG Win7: Win10 P64: | Genuine Windows® 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad P50s



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Lenovo ThinkPad P50s

ThinkPad P50s Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | | Smart card reader Media reader Ports Camera (optional) Audio support | Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | |
|--|--|-------------------|-------------------|----------------|---------------------|-------|--------------|--|--|-----------------------|-----------------|-----------------|-------------------|-------------------|-------------------|-------------|---------|-------------------|-------------------|--------------------------------|--|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | Processor Graphics | | | | | | | | | | | |
| | i5-6300U | 2 | 4 | 2.4 GHz | 3 GHz | 3MB | DDR3L-1600 | | | Intel HD Graphics 520 | | | | | | | | | | | |
| | i7-6500U | | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | |
| i7-6600U | 2.6 GHz | | | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory); supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI) | | | | | | | Keyboard UltraNav™ Security Security chip ThinkEngine | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | | | | | | | vPro (optional) Fingerprint reader | Intel vPro Technology Optional: Swipe style fingerprint reader on the palm rest | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio, 160° viewing angle Some: 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, IPS, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, 160° viewing angle | | | | | | | Internal battery External battery Max battery life ¹⁰ (MobileMark® 2014) | Optional: Integrated Li-Polymer 3-cell (44Wh) Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) <table border="1"> <thead> <tr> <th>Models</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>12.0 hr</td> <td>16.3 hr</td> <td>20.5 hr</td> </tr> </tbody> </table> | Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | Max battery life | 12.0 hr | 16.3 hr | 20.5 hr | | | | |
| Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | | | | | | | | | | | | | | | | | | |
| Max battery life | 12.0 hr | 16.3 hr | 20.5 hr | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture | | | | | | | AC adapter | 65W Slim AC adapter or 65W AC adapter | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <ul style="list-style-type: none"> • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | |
| Optical | None | | | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | | | | | | |
| WLAN ⁴ | One of the following, configurable by model: <ul style="list-style-type: none"> • 11ac+BT, Broadcom BCM4356, 2x2, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | | Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | |
| WWAN (optional) | One of the following, configurable by model: <ul style="list-style-type: none"> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | |
| Dimensions ³ Weight ² | WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.27 lb / 2.39 kg</td> <td>4.97 lb / 2.25 kg</td> <td>5.44 lb / 2.47 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.00 lb / 2.27 kg</td> <td>5.42 lb / 2.46 kg</td> </tr> </tbody> </table> | | | | | | | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | |
| Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg | | | | | | | | | | | | | | | | | | |
| Case material | Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | |
| | | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | |

ThinkPad P50s 20FL (Discrete) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|------------------|------|----------|-------------------|--------|------------------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20FL000JUS | i7-6500U | No | M500M | 8GBx1 | 15.5" 3K IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FL000NUS | i7-6600U | vPro | M500M | 8GBx2 | 15.5" 3K IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FL000GUS | i7-6500U | No | M500M | 8GBx2 | 15.6" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FL000HUS | i5-6300U | vPro | M500M | 8GBx1 | 15.6" FHD IPS | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(72wh) | 65W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FL000KUS | i7-6500U | No | M500M | 8GBx1 | 15.6" FHD IPS | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FL000LUS | i7-6500U | No | M500M | 8GBx1 | 15.6" FHD IPS | No | 1T 5400 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 65W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20FL000MUS | i7-6500U | No | M500M | 8GBx2 | 15.6" FHD IPS | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 65W | Win10 DG Win7 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad P50s Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--|--|----------------|---------------------|-----------------|-----------------|------------------|---------|---------|---------|-----|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|---|--------|-------------|-----------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------|---|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6300U</td> <td rowspan="4">2</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>3MB</td> <td rowspan="4">DDR3L-1600</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6300U | 2 | 2.4 GHz | 3 GHz | 3MB | DDR3L-1600 | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>5.27 lb / 2.39 kg</td> <td>4.97 lb / 2.25 kg</td> <td>5.44 lb / 2.47 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>5.00 lb / 2.27 kg</td> <td>5.42 lb / 2.46 kg</td> </tr> </tbody> </table> | Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | 2 | 2.4 GHz | 3 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 5.27 lb / 2.39 kg | 4.97 lb / 2.25 kg | 5.44 lb / 2.47 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 5.00 lb / 2.27 kg | 5.42 lb / 2.46 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor and NVIDIA Quadro® M500M (2GB memory) | Case material | Display cover: PPS; Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 32GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two DDR3L SO-DIMM sockets | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) FHD (1920x1080), 250 nits, 400:1 / 500:1 contrast ratio, IPS Some: 15.5" (394mm) 3K (2880x1620), 350 nits, 1000:1 contrast ratio, IPS | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | In-cell touch, supports 10-finger gesture | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | Finger-print reader | Optional: Swipe style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Internal battery | Optional: Integrated Li-Polymer 3-cell (44Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion or Li-Polymer 3-cell (23Wh) or Li-Ion 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>3 + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3 + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>12.0 hr</td> <td>16.3 hr</td> <td>20.5 hr</td> </tr> </tbody> </table> | Models | 3 + 3-cell | 3 + 6-cell 48Wh | 3 + 6-cell 72Wh | Max battery life | 12.0 hr | 16.3 hr | 20.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Max battery life | 12.0 hr | 16.3 hr | 20.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 65W Slim AC adapter or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(SZ2P-1) © Lenovo



Lenovo® ThinkPad P70



Lenovo ThinkPad P70



Lenovo ThinkPad P70



Lenovo ThinkPad P70



Lenovo ThinkPad P70

ThinkPad P70 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | | | | | | | Smart card reader ExpressCard Media reader Ports | Optional: Smart card reader One slot (ExpressCard/34) 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | |
|-------------------------|---|-----------------|--------------|----------------|---------------------|-------|--------------------|---|---|------|-------------------|-----------------|------------------|--------|---------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | |
| | i7-6700HQ | 4 | 8 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | | | | | |
| | i7-6820HQ | | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | |
| E3-1505M v5 | 2.8 GHz | | | 3.7 GHz | 8MB | | | | | | | | | | |
| | | | | | | | Processor Graphics | Intel HD Graphics 530 Intel HD Graphics P530 | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory); supports external digital monitor via HDMI, Mini DisplayPort, or Thunderbolt™; supports five independent displays; Max resolution: 3840x2160@60Hz (DisplayPort via Mini DisplayPort cable); 3840x2160@60Hz (Thunderbolt); 3840x2160@30Hz (HDMI) | | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight 3-button TrackPoint® pointing device and 3-button crystal silk surface multi-touch touchpad | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | | | | | | | Security chip ThinkEngine | Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | |
| Display | Some: 17.3" (439mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 72% gamut, 170° viewing angle Some: 17.3" (439mm) 4K (3840x2160), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 90% gamut, 170° viewing angle | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | | | Fingerprint reader | Touch style fingerprint reader on the keyboard bezel | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | | | | | | | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | |
| Storage | Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | Battery | Li-Ion 8-cell (96Wh) | | | | | | |
| Optical (optional) | DVD burner, 9.5mm high, fixed, tray-in | | | | | | | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Mode</th> <th>Discrete Graphics</th> <th>Hybrid Graphics</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>8.5 hr</td> <td>10.8 hr</td> </tr> </tbody> </table> | Mode | Discrete Graphics | Hybrid Graphics | Max battery life | 8.5 hr | 10.8 hr |
| Mode | Discrete Graphics | Hybrid Graphics | | | | | | | | | | | | | |
| Max battery life | 8.5 hr | 10.8 hr | | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | AC adapter | 170W or 230W AC adapter | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | | Preload | Some: Genuine Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/UMTS/GNSS, M.2 card | | | | | | | | • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) For ISV certifications, please visit www.lenovo.com/support/ISV | | | | | | |
| SIM card | Micro-SIM card slot | | | | | | | Limited warranty ¹² | One of the following, configurable by model: • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | |
| Dimensions ³ | WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | |
| Weight ² | Non-touch model: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg) | | | | | | | Environment | EPPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | |
| Case material | Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | |

ThinkPad P70 20ER (Discrete) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Pen | Storage | RAID | Optical | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger print reader | Color calibration | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-------------|------|-------------|----------------|---------------|-------------|------|--------------------------|------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20ER000NUS | E3-1505M v5 | | vPro M3000M | 16GBx1 ECC | 17.3" 4K IPS | No | None | 512G SSD PCIe NVMe | No | DVD±RW | 8260 ac+BT | None | None | Smart | 720p | Backlit | Finger X-Rite | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20ER000RUS | i7-6820HQ | | vPro M3000M | 16GBx1 non-ECC | 17.3" 4K IPS | No | None | 512G SSD PCIe NVMe | No | DVD±RW | 8260 ac+BT | None | None | Smart | 720p | Backlit | Finger X-Rite | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20ER000WUS | i7-6820HQ | | vPro M4000M | 16GBx1 non-ECC | 17.3" 4K IPS | No | None | 512G SSD PCIe NVMe | No | None | 8260 ac+BT | None | None | Smart | 720p | Backlit | Finger X-Rite | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20ER000XUS | E3-1505M v5 | | vPro M4000M | 16GBx1 ECC | 17.3" 4K IPS | No | None | 512G SSD PCIe NVMe | No | None | 8260 ac+BT | None | None | Smart | 720p | Backlit | Finger X-Rite | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20ER000KUS | i7-6820HQ | | vPro M3000M | 8GBx1 non-ECC | 17.3" FHD IPS | MT | Pen | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000FUS | i7-6700HQ | No | M600M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 170W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000GUS | i7-6700HQ | No | M3000M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000HUS | i7-6820HQ | | vPro M600M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 170W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000JUS | i7-6820HQ | | vPro M3000M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000LUS | E3-1505M v5 | | vPro M600M | 8GBx1 ECC | 17.3" FHD IPS | No | None | 256G SSD PCIe NVMe Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 170W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20ER000MUS | E3-1505M v5 | | vPro M3000M | 8GBx1 ECC | 17.3" FHD IPS | No | None | 256G SSD PCIe NVMe Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 11/15 |
| 20ER000SUS | i7-6820HQ | | vPro M3000M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | Dimensions ³ | WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|---|--|----------------|---------------------|-------------------|-----------------|------------------|--------|---------|---------|-----|-----------|-----------|---------|---------|-----|-------------|---------|---------|-----|---------------------|--|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i7-6700HQ</td> <td rowspan="3">4</td> <td>2.6 GHz</td> <td>3.5 GHz</td> <td>6MB</td> <td rowspan="3">DDR4-2133</td> </tr> <tr> <td>i7-6820HQ</td> <td>2.7 GHz</td> <td>3.6 GHz</td> <td>8MB</td> </tr> <tr> <td>E3-1505M v5</td> <td>2.8 GHz</td> <td>3.7 GHz</td> <td>8MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | i7-6820HQ | 2.7 GHz | 3.6 GHz | 8MB | E3-1505M v5 | 2.8 GHz | 3.7 GHz | 8MB | Weight ² | Non-touch model: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg) | |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | |
| i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | |
| i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | | | | | | | | | | | | |
| E3-1505M v5 | | 2.8 GHz | 3.7 GHz | 8MB | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory) | Smart card reader | Optional: Smart card reader ExpressCard One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | Ports | Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle Some: 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | Audio support | HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ | | | | | | | | | | | | | | | | | | | | | |
| Storage | Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | |
| Optical (optional) | DVD burner, 9.5mm high, fixed, tray-in | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Fingerprint reader | Touch style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | Battery | Li-Ion 8-cell (96Wh) | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card, Verizon® LTE (4G), contract required with service provider | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Mode</th> <th>Discrete Graphics</th> <th>Hybrid Graphics</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>8.5 hr</td> <td>10.8 hr</td> </tr> </tbody> </table> | | Mode | Discrete Graphics | Hybrid Graphics | Max battery life | 8.5 hr | 10.8 hr | | | | | | | | | | | | | | |
| Mode | Discrete Graphics | Hybrid Graphics | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life | 8.5 hr | 10.8 hr | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 170W or 230W AC adapter | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win7 P64: Genuine Windows® 7 Professional 64 Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(PY1-1) © Lenovo

ThinkPad P70 20ER (Discrete) - TopSeller - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graph-ics | Memory | Display | Multi-touch | Pen | Storage | RAID | Optical | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam-era | Backlit key-board | Finger-print reader | Color cali-brator | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-------------|------|-----------|----------------|---------------|-------------|------|------------------------|------|---------|------------------|------|----------|-------------------|---------|-------------------|---------------------|-------------------|----------------|----------------------|---------------|----------------------|---------|----------------|
| 20ER000TUS | i7-6700HQ | No | M600M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 1T 5400 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 170W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000UUS | i7-6700HQ | No | M3000M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000VUS | i7-6700HQ | No | M600M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | None | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 170W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER000YUS | i7-6820HQ | vPro | M3000M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 1T 5400 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER002GUS | E3-1505M v5 | vPro | M600M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 170W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER002KUS | i7-6700HQ | No | M600M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 170W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER002LUS | i7-6820HQ | vPro | M3000M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |
| 20ER002MUS | E3-1505M v5 | vPro | M3000M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8 | 230W | Win10 DG Win7 | 3-depot | No | 10/15 |

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | Dimensions ³ | WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--|---|--|--|---------------------|-------|-------------------|-----------------|------------------|---------|---------|-----|-----------|-----------|---------|---------|-----|-------------|---------|---------|-----|---------------------|--|--|--|
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| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | |
| i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | | |
| i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | |
| E3-1505M v5 | | 2.8 GHz | 3.7 GHz | 8MB | | | | | | | | | | | | | | | | | | | | | |
| | | | Case material | Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory) | Smart card reader | Optional: Smart card reader ExpressCard One slot (ExpressCard/34) | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | Ports | Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle Some: 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | Audio support | HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | |
| Optical (optional) | DVD burner, 9.5mm high, fixed, tray-in | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | Fingerprint reader | Touch style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | Battery | Li-Ion 8-cell (96Wh) | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card, Verizon® LTE (4G), contract required with service provider | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Mode</th> <th>Discrete Graphics</th> <th>Hybrid Graphics</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>8.5 hr</td> <td>10.8 hr</td> </tr> </tbody> </table> | | | Mode | Discrete Graphics | Hybrid Graphics | Max battery life | 8.5 hr | 10.8 hr | | | | | | | | | | | | | | |
| Mode | Discrete Graphics | Hybrid Graphics | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life | 8.5 hr | 10.8 hr | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 170W or 230W AC adapter | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win7 P64: Genuine Windows® 7 Professional 64 Win10 DG Win7: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(PY1-2) © Lenovo

ThinkPad P70 20ER (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graph-ics | Memory | Display | Multi-touch | Pen | Storage | RAID | Optical | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam-era | Backlit key-board | Finger-print reader | Color cali-brator | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-------------|------|-----------|----------------|---------------|-------------|------|------------------------|------|---------|------------------|------|----------|-------------------|---------|-------------------|---------------------|-------------------|----------------|----------------------|-----------|----------------------|---------|----------------|
| 20ER000PUS | i7-6820HQ | vPro | M600M | 8GBx1 non-ECC | 17.3" FHD IPS | MT | Pen | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | X-Rite | 8 | 170W | Win10 P64 | 3-depot | No | 10/15 |
| 20ER000QUS | i7-6820HQ | vPro | M3000M | 8GBx1 non-ECC | 17.3" FHD IPS | MT | Pen | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | X-Rite | 8 | 230W | Win10 P64 | 3-depot | No | 10/15 |
| 20ER002FUS | i7-6700HQ | No | M600M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | X-Rite | 8 | 170W | Win10 P64 | 3-depot | No | 10/15 |
| 20ER002NUS | i7-6700HQ | No | M600M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | X-Rite | 8 | 170W | Win10 P64 | 3-depot | No | 10/15 |
| 20ER002HUS | E3-1505M v5 | vPro | M3000M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | None | 8 | 230W | Win10 P64 | 3-depot | No | 10/15 |
| 20ER002JUS | i7-6820HQ | vPro | M3000M | 16GBx1 non-ECC | 17.3" FHD IPS | No | None | 256G SSD SATA3.0 Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | None | 8 | 230W | Win10 P64 | 3-depot | No | 10/15 |

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications sheet](#)

| | | | | | | | |
|--------------------|---|------------|----------------|---------------------|-------|--------------|--|
| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | | | | | | Dimensions ³ WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm Non-touch model: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg) Weight ² Case material Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | |
| | i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | |
| E3-1505M v5 | 2.8 GHz | | 3.7 GHz | 8MB | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory) | | | | | | Smart card reader ExpressCard Media reader Ports |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | | | | | | Camera |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | | | | | | Audio support |
| Display | Some: 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle Some: 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle | | | | | | Keyboard UltraNav™ |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | | Security |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | | | | | | Security chip vPro (optional) |
| Storage | Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | | | | | | Fingerprint reader Color calibration |
| Optical (optional) | DVD burner, 9.5mm high, fixed, tray-in | | | | | | Battery Max battery life ¹⁰ (MobileMark® 2014) |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | Li-Ion 8-cell (96Wh) Mode Discrete Graphics Hybrid Graphics Max battery life 8.5 hr 10.8 hr |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | AC adapter |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | 170W or 230W AC adapter |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | | | | | | Preload |
| SIM card (opt) | Micro-SIM card, Verizon® LTE (4G), contract required with service provider | | | | | | Win7 P64: Win10 DG Win7: Win10 P64: Genuine Windows® 7 Professional 64 Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64 |
| | | | | | | | Limited warranty ¹² 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID |

See footnotes for more detailed information

(PY1-3) © Lenovo

ThinkPad P70 20ES (Discrete) - Onsite

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graph-ics | Memory | Display | Multi-touch | Pen | Storage | RAID | Optical | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Cam-era | Backlit key-board | Finger-print reader | Color cali-brator | Bat-tery adapter | Power (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-------------|------|-----------|---------------|---------------|-------------|------|--------------------------|------|---------|------------------|------|----------|-------------------|---------|-------------------|---------------------|-------------------|------------------|--------------|---------------|----------------------|---------|----------------|
| 20ES0009US | E3-1505M v5 | vPro | M3000M | 16GBx1 ECC | 17.3" 4K IPS | No | None | 256G SSD PCIe NVMe Opal2 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger X-Rite | | 8 | 230W | Win10 DG Win7 | 3-onsite | No | 10/15 |
| 20ES0008US | i7-6820HQ | vPro | M600M | 8GBx1 non-ECC | 17.3" FHD IPS | No | None | 500G 7200 | No | DVD±RW | 8260 ac+BT | None | None | None | 720p | Backlit | Finger None | | 8 | 170W | Win10 DG Win7 | 3-onsite | No | 10/15 |

• For detailed platform specifications, please see [ThinkPad P70 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | |
|--------------------|---|------------|----------------|---------------------|--|--------------|--|---|---|--|--|--|--|--|
| Processor | 6th Generation Intel® Core™ i7 Processor or Intel Xeon® Processor E3 v5 Family | | | | | | Dimensions ³ | | WxDxH: 16.38" x 10.85" x 1.18-1.35"; 416mm x 275.5mm x 29.9-34.2mm WxDxH(Touch): 16.38" x 10.85" x 1.20-1.37"; 416mm x 275.5mm x 30.6-34.9mm Non-touch model: from 7.3 lb (3.3kg); Multi-touch model: from 8.1 lb (3.7kg) | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Case material | | | | | | |
| | i7-6700HQ | 4 | 2.6 GHz | 3.5 GHz | 6MB | DDR4-2133 | Display cover: Glass-Fiber + PPS; Bottom: Magnesium/Aluminum | | | | | | | |
| | i7-6820HQ | | 2.7 GHz | 3.6 GHz | 8MB | | Smart card reader | | | | | | | |
| E3-1505M v5 | 2.8 GHz | | 3.7 GHz | 8MB | Optional: Smart card reader ExpressCard One slot (ExpressCard/34) | | | | | | | | | |
| Graphics | Intel HD Graphics 530 or P530 in processor and NVIDIA Quadro® M600M (2GB memory), M3000M (4GB memory), M4000M (4GB memory), or M5000M (8GB memory) | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC), supports UHS-II SD card | | | | | | |
| Ports | | | | | | | Four USB 3.0 (one Always On), two USB Type-C / Thunderbolt 3, Mini DisplayPort, HDMI, Ethernet (RJ-45), Dock connector | | | | | | | |
| Chipset | Mobile Intel CM236 Chipset (Intel GL82CM236 PCH) | | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | |
| Memory | 64GB max ⁷ / 2133MHz DDR4, ECC or non-ECC (ECC function supported only on Xeon processor), dual-channel capable, four DDR4 SO-DIMM sockets | | | | | | Audio support | HD Audio, Realtek® ALC3268 codec / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | |
| Display | Some: 17.3" (439mm) FHD (1920x1080), IPS, 300 nits, 800:1 contrast ratio, 72% gamut, 170° viewing angle Some: 17.3" (439mm) 4K (3840x2160), IPS, 300 nits, 800:1 contrast ratio, 90% gamut, 170° viewing angle | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight UltraNav™ | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | |
| Pen (optional) | ThinkPad Pen Pro, active pen for multi-touch display | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | |
| Storage | Up to 4 drives (two M.2 SSD and two HDD, one of which is in the optical bay) Some: M.2 SSD / SATA 6.0Gb/s or PCIe NVMe, PCIe 3.0 x 4, 32Gb/s Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, APS | | | | | | vPro (optional) | Intel vPro Technology | | | | | | |
| Optical (optional) | DVD burner, 9.5mm high, fixed, tray-in | | | | | | Fingerprint reader | Touch style fingerprint reader on the keyboard bezel | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | Color calibration | Optional: Pantone® color calibrator by X-Rite® color calibration sensor in palm rest | | | | | | |
| WLAN ⁴ | 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card | | | | | | Battery | Li-Ion 8-cell (96Wh) | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Max battery life ¹⁰ | Mode | | | | | | |
| WWAN (optional) | Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card | | | | | | (MobileMark® 2014) | Discrete Graphics | | Hybrid Graphics | | | | |
| SIM card (opt) | Micro-SIM card, Verizon® LTE (4G), contract required with service provider | | | | | | Max battery life | 8.5 hr | | 10.8 hr | | | | |
| | | | | | | | AC adapter | 170W or 230W AC adapter | | | | | | |
| | | | | | | | Preload | Win7 P64: | | Genuine Windows® 7 Professional 64 | | | | |
| | | | | | | | | Win10 DG Win7: | | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | | |
| | | | | | | | | Win10 P64: | | Windows 10 Pro 64 | | | | |
| | | | | | | | Limited warranty ¹² | 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | |

See footnotes for more detailed information

(PY1-4) © Lenovo



Lenovo® ThinkPad 11e



Lenovo ThinkPad 11e



Lenovo ThinkPad 11e

ThinkPad 11e 20D9 (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20D90008US | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 05/14 |
| 20D90005US | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 09/14 |
| 20D90016US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 12/14 |
| 20D9001BUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 12/14 |
| 20D9001KUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20D9001SUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20D9001TUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20D9001UUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20D9001VUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20D9001WUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 64G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |

| | | | | | | | | | | | | | | | | | |
|--------------------------------|---|------------|--------------|----------------|-----------------|-------|-------------------|--------------------|---|--|--|--|--|--|--|--|--|
| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | Control buttons | Power button, volume control button | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | | | WWAN | None | | | | | | | |
| Optical Storage | None Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio | | | | | | | | Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | |
| Multi-touch | None | | | | | | | | NFC | None | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | |
| Camera (optional) | HD720p resolution, low light sensitive | | | | | | | | Security chip | None | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | vPro (optional) | None | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | Fingerprint reader | None | | | | | | | |
| Weight ² | from 3.28 lb (1.49kg) | | | | | | | | Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available <i>For Lenovo service upgrade options, please go to QP-TA sheet</i> | | | | | | | | |
| Case color | Display cover: Graphite Black or Silver; Bottom: Graphite Black | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Lenovo Reach • PC Device Stage • Nitro Pro • Evernote® • Skype™ • Microsoft® Office preloaded; purchase a product key to activate | | | | | | | |
| Case material | Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • Lenovo Photo Editor (Win8.1 model) • Lenovo Video Editor (Win8.1 model) • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | |
| Max battery life ¹⁰ | Models | | Windows 7 | | Windows 8 | | | | | | | | | | | | |
| | MobileMark® 2007 | | 7.0 hr | | - | | | | | | | | | | | | |
| | MobileMark 2012 | | 6.0 hr | | 6.5 hr | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | |
| Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | | | | | | | | | |
| Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | | |
| Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

ThinkPad 11e 20D9 (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20D90009US | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 05/14 |
| 20D9000MUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 05/14 |
| 20D9000GUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/14 |
| 20D9000AUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 09/14 |
| 20D9000NUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 09/14 |
| 20D9000FUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 09/14 |
| 20D90015US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 12/14 |
| 20D90017US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 12/14 |
| 20D9001EUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 02/15 |
| 20D9001HUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 02/15 |

| | | | | | | | | | | | | | | | | | |
|--------------------------------|---|------------|------------------|----------------|------------------|-------|--|--|---|--|--|--|--|--|--|--|--|
| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | Control buttons | Power button, volume control button | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | | WWAN | None | | | | | | | | |
| Optical Storage | None Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio | | | | | | | Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | | |
| Multi-touch | None | | | | | | | NFC | None | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Camera (optional) | HD720p resolution, low light sensitive | | | | | | | Security chip | None | | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | vPro (optional) | None | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | Fingerprint reader | None | | | | | | | | |
| Weight ² | from 3.28 lb (1.49kg) | | | | | | | Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available <i>For Lenovo service upgrade options, please go to QP-TA sheet</i> | | | | | | | | | |
| Case color | Display cover: Graphite Black or Silver; Bottom: Graphite Black | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Lenovo Reach • PC Device Stage • Nitro Pro • Evernote® • Skype™ • Microsoft® Office preloaded; purchase a product key to activate | | | | | | | | |
| Case material | Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • Lenovo Photo Editor (Win8.1 model) • Lenovo Video Editor (Win8.1 model) • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | |
| Max battery life ¹⁰ | Models | | Windows 7 | | Windows 8 | | Environment | | | | | | | | | | |
| | MobileMark® 2007 | | 7.0 hr | | - | | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | | | | |
| | MobileMark 2012 | | 6.0 hr | | 6.5 hr | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | | | | | | | | | |
| Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | | |
| Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

ThinkPad 11e 20D9 (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20D9001XUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20D9001YUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20D90020US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20D90021US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 64G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20D90022US | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 64G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20D90023US | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20D90024US | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |

| | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------|--------------|----------------|-----------------|-------|-------------------|--------------------|---|--|--|--|--|--|--|--|--|
| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | Control buttons | Power button, volume control button | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | | | WWAN | None | | | | | | | |
| Optical Storage | None Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | | Bluetooth™ | None | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio | | | | | | | | Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | |
| Multi-touch | None | | | | | | | | NFC | None | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | |
| Camera (optional) | HD720p resolution, low light sensitive | | | | | | | | Security chip | None | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | vPro (optional) | None | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | Fingerprint reader | None | | | | | | | |
| Weight ² | from 3.28 lb (1.49kg) | | | | | | | | Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available For Lenovo service upgrade options, please go to QP-TA sheet | | | | | | | | |
| Case color | Display cover: Graphite Black or Silver; Bottom: Graphite Black | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Some: Windows 8.1 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64 | | | | | | | |
| Case material | Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Reach PC Device Stage Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate | | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | |
| Max battery life ¹⁰ | Models | | Windows 7 | | Windows 8 | | | | | | | | | | | | |
| | MobileMark® 2007 | | 7.0 hr | | - | | | | | | | | | | | | |
| | MobileMark 2012 | | 6.0 hr | | 6.5 hr | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | |
| Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | |
| Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | | |
| Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR1W-5) © Lenovo

ThinkPad 11e 20DA

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20DA000QUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 05/14 |
| 20DA000RUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 05/14 |
| 20DA000SUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 05/14 |
| 20DA000GUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 09/14 |
| 20DA000JUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 09/14 |
| 20DA000MUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 09/14 |
| 20DA001UUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 12/14 |
| 20DA001YUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 12/14 |
| 20DA0020US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 12/14 |
| 20DA002NUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20DA002PUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 64G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20DA002QUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20DA002RUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20DA002SUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20DA002TUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |

| | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------|--------------|----------------|-----------------|-------|--------------|--------------------|--|---|--|--|--|--|--|--|--|
| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | Control buttons | Power button, volume control button | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | | | WWAN | None | | | | | | | |
| Optical Storage | None Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio | | | | | | | | Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | |
| Multi-touch | None | | | | | | | | NFC | None | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | |
| Camera (optional) | HD720p resolution, low light sensitive | | | | | | | | Security chip | None | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | vPro (optional) | None | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | Fingerprint reader | None | | | | | | | |
| Weight ² | from 3.28 lb (1.49kg) | | | | | | | | Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available For Lenovo service upgrade options, please go to QP-TA sheet | | | | | | | | |
| Case color | Display cover: Graphite Black or Silver; Bottom: Graphite Black | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Lenovo Reach • PC Device Stage • Nitro Pro • Evernote® • Skype™ • Microsoft® Office preloaded; purchase a product key to activate | | | | | | | |
| Case material | Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • Lenovo Photo Editor (Win8.1 model) • Lenovo Video Editor (Win8.1 model) • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | Models | Windows 7 | Windows 8 | | | | | | | | | | | | | | |
| | MobileMark® 2007 | 7.0 hr | - | | | | | | | | | | | | | | |
| | MobileMark 2012 | 6.0 hr | 6.5 hr | | | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | |
| Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | |
| Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | | |
| Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

ThinkPad 11e 20DA (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20DA000TUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 05/14 |
| 20DA000UUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 05/14 |
| 20DA000VUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/14 |
| 20DA000WUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/14 |
| 20DA000XUS | Cel N2920 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/14 |
| 20DA0004US | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 09/14 |
| 20DA000NUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 64 | 1-depot | No | 09/14 |
| 20DA000AUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 09/14 |
| 20DA000BUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 09/14 |
| 20DA000CUS | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 a/b/g/n+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 09/14 |
| 20DA001VUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 12/14 |
| 20DA001WUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 12/14 |
| 20DA001XUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 12/14 |

| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | | | | | | | | | | |
|-------------------------|---|------------|--------------|----------------|-----------------|-------|-------------------|--------------------|---|--|--|--|--|--|--|--|--|--------|-----------|-----------|------------------|--------|---|-----------------|--------|--------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | | | | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | Control buttons | Power button, volume control button | | | | | | | | | | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | | | WWAN | None | | | | | | | | | | | | | | | | |
| Optical Storage | None Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio | | | | | | | | Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | | | NFC | None | | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, low light sensitive | | | | | | | | Security chip | None | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | vPro (optional) | None | | | | | | | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | Fingerprint reader | None | | | | | | | | | | | | | | | | |
| Weight ² | from 3.28 lb (1.49kg) | | | | | | | | Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available <i>For Lenovo service upgrade options, please go to QP-TA sheet</i> | | | | | | | | | | | | | | | | | |
| Case color | Display cover: Graphite Black or Silver; Bottom: Graphite Black | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Lenovo Reach • PC Device Stage • Nitro Pro • Evernote® • Skype™ • Microsoft® Office preloaded; purchase a product key to activate | | | | | | | | | | | | | | | | |
| Case material | Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | Some: | Windows 8.1 64-bit Windows 8.1 Pro 64-bit Windows 10 Home 64 Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • Lenovo Photo Editor (Win8.1 model) • Lenovo Video Editor (Win8.1 model) • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | | | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2007</td> <td>7.0 hr</td> <td>-</td> </tr> <tr> <td>MobileMark 2012</td> <td>6.0 hr</td> <td>6.5 hr</td> </tr> </tbody> </table> | | | | | | | | Models | Windows 7 | Windows 8 | MobileMark® 2007 | 7.0 hr | - | MobileMark 2012 | 6.0 hr | 6.5 hr |
| Models | Windows 7 | Windows 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| MobileMark® 2007 | 7.0 hr | - | | | | | | | | | | | | | | | | | | | | | | | | |
| MobileMark 2012 | 6.0 hr | 6.5 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | | |
| Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | |
| Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
 US model(s) withdrawn effective March 2015

ThinkPad 11e 20DA (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20DA002WUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20DA002XUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20DA0034US | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 128G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20DA0039US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 320G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20DA003AUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 64G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20DA003BUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 64G SSD | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20DA003CUS | Cel N2940 | No | Intel HD | 8GBx1 | 11.6" HD | 500G 7200 | 7260 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |

| | | | | | | | | | | | | | | | | | |
|--------------------------------|---|------------|--------------|----------------|-----------------|-------|--------------|--------------------|---|---|--|--|--|--|--|--|--|
| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | Control buttons | Power button, volume control button | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | | | | | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | |
| Optical Storage | None Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | | WWAN | None | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | |
| Multi-touch | None | | | | | | | | Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | NFC | None | | | | | | | |
| Camera (optional) | HD720p resolution, low light sensitive | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | Security chip | None | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | vPro (optional) | None | | | | | | | |
| Weight ² | from 3.28 lb (1.49kg) | | | | | | | | Fingerprint reader | None | | | | | | | |
| Case color | Display cover: Graphite Black or Silver; Bottom: Graphite Black | | | | | | | | Limited warranty ¹² 1-year - depot repair service / service upgrades ²² available For Lenovo service upgrade options, please go to QP-TA sheet | | | | | | | | |
| Case material | Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic; Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Lenovo Reach • PC Device Stage • Nitro Pro • Evernote® • Skype™ • Microsoft® Office preloaded; purchase a product key to activate | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | | | • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • Lenovo Photo Editor (Win8.1 model) • Lenovo Video Editor (Win8.1 model) • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | |
| Max battery life ¹⁰ | Models | | Windows 7 | | Windows 8 | | | | | | | | | | | | |
| | MobileMark® 2007 | | 7.0 hr | | - | | | | | | | | | | | | |
| | MobileMark 2012 | | 6.0 hr | | 6.5 hr | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | |
| Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | |
| Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | | |
| Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

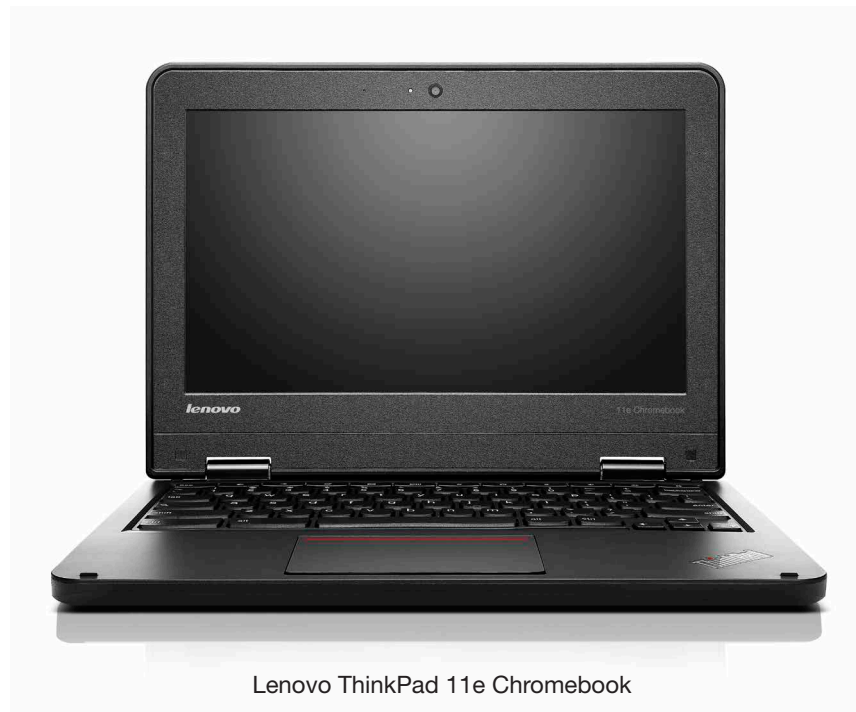
(MR1W-6) © Lenovo



Lenovo® ThinkPad 11e Chromebook



Lenovo ThinkPad 11e Chromebook



Lenovo ThinkPad 11e Chromebook

ThinkPad 11e Chromebook 20DU (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20DU0003US | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 16GB eMMC | 7260 ac+BT | Black | 720p | None | 4 | 45W | Google Chrome | 1-depot | No | 06/14 |
| 20DU0009US | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 16GB eMMC | 7260 ac+BT | Black | 720p | None | 4 | 45W | Google Chrome | 1-depot | No | 12/14 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------|--------------|----------------|-----------------|-------|--------------|--------------------|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|
| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | Audio support | HD Audio, Maxim MAX98090AETL+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Keyboard | ThinkPad Chrome keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | ThinkLight™ | None | | | | | | | | | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | | | | | | | | | | | | | | | | | | | |
| Memory | 2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | | | | | | | | |
| Optical Storage | None 16GB eMMC (embedded Multi Media Card) flash memory on board | | | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | | Ports | One USB 3.0, one USB 2.0, HDMI | | | | | | | | | | | | | | | |
| Multi-touch | | | | | | | | | None | | | | | | | | Control buttons | Power button, volume control button | | | | | | | |
| Hinge | | | | | | | | | Normal hinge, 180 degree | | | | | | | | WLAN ⁴ | <i>11a/b/g/n+BT</i> : ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT</i> : Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | |
| Camera | | | | | | | | | HD720p resolution, low light sensitive | | | | | | | | WWAN | None | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; <i>Max resolution</i> : 1920x1080 (HDMI) @60Hz | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | |
| | | | | | | | | | Ethernet | None | | | | | | | | | | | | | | | |
| | | | | | | | | | NFC | None | | | | | | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | Security | Security keyhole | | | | | | | | | | | | | | | |
| Weight ² | from 3.09 lb (1.4kg) | | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | |
| Case color | <i>Display cover</i> : Graphite Black or Silver; <i>Bottom</i> : Graphite Black | | | | | | | | vPro (optional) | None | | | | | | | | | | | | | | | |
| Case material | <i>Display cover</i> : PolyCarbonate/Glass-Fiber Reinforced Plastic; <i>Bottom</i> : PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | Fingerprint reader | None | | | | | | | | | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | | Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available <i>For Lenovo service upgrade options, please go to QP-TA sheet</i> | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | more than 8 hours | | | | | | | | Preload | Google Chrome OS | | | | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR1C-1) © Lenovo

ThinkPad 11e Chromebook 20DB

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20DB0006US | Cel N2930 | No | Intel HD | 2GBx1 | 11.6" HD | 16GB eMMC | 7260 ac+BT | Black | 720p | None | 4 | 45W | Google Chrome | 1-depot | No | 06/14 |
| 20DB0007US | Cel N2930 | No | Intel HD | 4GBx1 | 11.6" HD | 16GB eMMC | 7260 ac+BT | Black | 720p | None | 4 | 45W | Google Chrome | 1-depot | No | 06/14 |
| 20DB000FUS | Cel N2940 | No | Intel HD | 4GBx1 | 11.6" HD | 16GB eMMC | 7260 ac+BT | Black | 720p | None | 4 | 45W | Google Chrome | 1-depot | No | 12/14 |

| | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------|--------------|----------------|-----------------|-------|--------------|--------------------|--------------------------------|--|--|--|--|--|--|--|--|
| Processor | Intel® Celeron® processor N2920, N2930, or N2940 | | | | | | | | Audio support | HD Audio, Maxim MAX98090AETL+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Burst Frequency | Cache | Memory Types | Processor Graphics | Keyboard | ThinkPad Chrome keyboard, 6-row, multimedia Fn keys | | | | | | | |
| | N2920 | 4 | 4 | 1.86 GHz | 2 GHz | 2MB | DDR3L-1066 | Intel HD graphics | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | |
| | N2930 | | | 1.83 GHz | 2.16 GHz | | DDR3L-1333 | | ThinkLight™ | None | | | | | | | |
| | N2940 | | | 1.83 GHz | 2.25 GHz | | | | | | | | | | | | |
| Memory | 2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | | | |
| Optical Storage | None | | | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | |
| Widescreen display | 11.6" (295mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | | Ports | One USB 3.0, one USB 2.0, HDMI | | | | | | | |
| Multi-touch | None | | | | | | | | Control buttons | Power button, volume control button | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | WLAN ⁴ | <i>11a/b/g/n+BT</i> : ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT</i> : Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | |
| Camera | HD720p resolution, low light sensitive | | | | | | | | WWAN | None | | | | | | | |
| Graphics | Intel HD Graphics in processor, supports external digital monitor via HDMI™ supports dual independent display; <i>Max resolution</i> : 1920x1080 (HDMI) @60Hz | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | |
| | | | | | | | | | Ethernet | None | | | | | | | |
| | | | | | | | | | NFC | None | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | Security | Security keyhole | | | | | | | |
| Weight ² | from 3.09 lb (1.4kg) | | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | |
| Case color | <i>Display cover</i> : Graphite Black or Silver; <i>Bottom</i> : Graphite Black | | | | | | | | vPro (optional) | None | | | | | | | |
| Case material | <i>Display cover</i> : PolyCarbonate/Glass-Fiber Reinforced Plastic; <i>Bottom</i> : PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | Fingerprint reader | None | | | | | | | |
| Battery type | Integrated Lithium Ion 4-cell (35Wh) | | | | | | | | Limited warranty ¹² | 1-year - depot repair service / service upgrades ²² available <i>For Lenovo service upgrade options, please go to QP-TA sheet</i> | | | | | | | |
| Max battery life ¹⁰ | more than 8 hours | | | | | | | | Preload | Google Chrome OS | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | |

See footnotes for more detailed information

(MR1C-2) © Lenovo



Lenovo® ThinkPad 11e (2nd Gen)



Lenovo ThinkPad 11e (2nd Gen)



Lenovo ThinkPad 11e (2nd Gen)

ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|-----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20ED0006US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 03/15 |
| 20ED000DUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 03/15 |
| 20ED000EUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 03/15 |
| 20ED0009US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 05/15 |
| 20ED000AUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 05/15 |
| 20ED000CUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 1-depot | No | 05/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | |
|-------------------------|---|------------|----------------|---------------------|--------------------|--------------|--------------------------------|--|--|--|--------|-----------|-----------|------------------|--------|---------|
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | | | | | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI) @30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | |
| | | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | |
| | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Memory | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Fingerprint reader | None | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | |
| Multi-touch | None | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | | | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| Models | Windows 7 | Windows 8 | | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | AC adapter | 45-watt AC adapter | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | Preload | <p>Some: Genuine Windows® 7 Professional 64</p> <p>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64</p> <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Reach PC Device Stage Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate <p>Some: Windows 8.1 64-bit</p> <p>Some: Windows 10 Home 64</p> <p>Some: Windows 10 Pro 64</p> <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | |
| Optical | None | | | | | | Limited warranty ¹² | <p>One of the following, configurable by model:</p> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | | | | | | | | | | |
| Case color | Graphite Black | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR15AW-1) © Lenovo

ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller - II

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|-----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20ED000RUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED000SUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED000TUS | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED000UUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED000VUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED000WUS | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 64G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED000XUS | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED000YUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED0010US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 64G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED0011US | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED0012US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20ED0013US | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |

| | | | | | | | | | | | |
|---|---|---|----------------|---------------------|--------------------|--------------------|---|---|---|------------------------------|--|
| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | |
| | | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| | Memory | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | |
| AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Fingerprint reader | None | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | |
| Multi-touch | None | | | | | | Max battery life ¹⁰ | Models | Windows 7 | Windows 8 | |
| Hinge | Normal hinge, 180 degree | | | | | | | MobileMark® 2012 | 6.6 hr | 6.68 hr | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | AC adapter | 45-watt AC adapter | | | |
| Optical | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | Preload | Some: Genuine Windows® 7 Professional 64 | | Some: Windows 8.1 64-bit | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | Some: Windows 7 Professional 64 | | Some: Windows 8.1 Pro 64-bit | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | Some: Windows 10 Pro 64 | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Reach PC Device Stage Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate | | <ul style="list-style-type: none"> Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | |
| WWAN | None | | | | | | Limited warranty ¹² | One of the following, configurable by model: | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | |
| Case color | Graphite Black | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | |

See footnotes for more detailed information

(MR15AW-5) © Lenovo

ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|-----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20ED0002US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 03/15 |
| 20ED0005US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 03/15 |
| 20ED0007US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 03/15 |
| 20ED0003US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/15 |
| 20ED0004US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/15 |
| 20ED0008US | E2-6110 | Radeon R2 | 2GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/15 |
| 20ED000FUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | | |
|-------------------------|--|------------|----------------|---------------------|--------------------|--------------|--------------------------------|--|---|--|--------|-----------|-----------|------------------|--------|---------|
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Control buttons | Power button, volume control button | | | | | | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | |
| | Intel or AMD SoC (System on Chip) platform <i>Intel models:</i> 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets <i>AMD models:</i> 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Chipset | | | | | | | Fingerprint reader | None | | | | | | | | |
| Memory | | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | | | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| | Models | Windows 7 | Windows 8 | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | AC adapter | 45-watt AC adapter | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | Preload | <i>Some:</i> Genuine Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | |
| Optical | None | | | | | | Ethernet Bluetooth™ | <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Reach PC Device Stage Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | WWAN | None | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | Limited warranty ¹² | | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | |
| Case color | Graphite Black | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR15AW-2) © Lenovo

ThinkPad 11e (2nd Gen) 20ED (AMD) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|-----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20ED0016US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED0017US | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED0018US | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED0019US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED001AUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED001BUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED001CUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 64G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED001DUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED001EUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED001FUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20ED001GUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |

| | | | | | | | | | | | |
|-------------------------|---|------------|----------------|---------------------|--------------------|--------------|---|---|--|---|---------|
| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | |
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Control buttons | Power button, volume control button | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Camera | HD720p resolution, low light sensitive, fixed focus | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | |
| | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Fingerprint reader | None | | | |
| Memory | AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Max battery life ¹⁰ | Models | Windows 7 | Windows 8 | |
| | Multi-touch | None | | | | | | | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| Hinge | Normal hinge, 180 degree | | | | | | AC adapter | 45-watt AC adapter | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | Preload | Some: Genuine Windows® 7 Professional 64 | | Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64 | |
| Optical | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Reach PC Device Stage Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card | | | | | | | | | | |
| WWAN | None | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | Limited warranty ¹² | One of the following, configurable by model: | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | |
| Case color | Graphite Black | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | |

See footnotes for more detailed information

(MR15AW-6) © Lenovo

ThinkPad 11e (2nd Gen) 20EE (AMD)

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|-----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20EE0003US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20EE0005US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20EE0001US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 DG Win7 | 3-depot | No | 05/15 |
| 20EE0006US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE0007US | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE0008US | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE0009US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 64G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE000AUS | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE000BUS | E2-6110 | Radeon R2 | 2GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE000CUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE000DUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE000EUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE000FUS | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20EE000GUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 64G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | |
|-------------------------|---|------------|----------------|---------------------|--------------------|--------------|---|--|--|--|--------|-----------|-----------|------------------|--------|---------|
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | | | | | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | |
| Memory | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Fingerprint reader | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Multi-touch | None | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | | | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| Models | Windows 7 | Windows 8 | | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | AC adapter | 45-watt AC adapter | | | | | | | | |
| Optical | None | | | | | | Preload | <p>Some: Genuine Windows® 7 Professional 64 Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64</p> <p>Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64</p> <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | Limited warranty ¹² One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | |
| Case color | Graphite Black | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad 11e (2nd Gen) 20EE (AMD) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|-----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20EE0002US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 3-depot | No | 03/15 |
| 20EE0004US | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 3-depot | No | 03/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | |
|-------------------------|--|------------|----------------|---------------------|--------------------|--------------|--------------------------------|--|--|--|--------|-----------|-----------|------------------|--------|---------|
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | | | | | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI) @30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | |
| | Intel or AMD SoC (System on Chip) platform <i>Intel models:</i> 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets <i>AMD models:</i> 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Memory | Intel or AMD SoC (System on Chip) platform <i>Intel models:</i> 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets <i>AMD models:</i> 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Fingerprint reader | None | | | | | | | | |
| Multi-touch | None | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | | | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| Models | Windows 7 | Windows 8 | | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | AC adapter | 45-watt AC adapter | | | | | | | | |
| Optical | None | | | | | | Preload | <i>Some:</i> Genuine Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | |
| WWAN | None | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | | | | | | | | | | |
| Case color | Graphite Black | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR15AW-4) © Lenovo

ThinkPad 11e (2nd Gen) 20EE (AMD) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|-----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20EE000HUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000JUS | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000KUS | E2-6110 | Radeon R2 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000LUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000MUS | E2-6110 | Radeon R2 | 4GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000NUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 128G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000PUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 64G SSD | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000QUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000RUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 320G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000SUS | A4-6210 | Radeon R3 | 4GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20EE000TUS | A4-6210 | Radeon R3 | 8GBx1 | 11.6" HD | 500G 7200 | 11ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | Media reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------------------------|---|--|--|--|---|--------------------|---------|---|---------|-------|-----|------------|------------------------|---------|---|---------|---|-----|---------------------|---------|---|---------|---|-----|--------------------|-----------------|-------------------------------------|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>5Y10c</td> <td>2</td> <td>800 MHz</td> <td>2 GHz</td> <td>4MB</td> <td rowspan="3">DDR3L-1600</td> <td>Intel HD Graphics 5300</td> </tr> <tr> <td>A4-6210</td> <td>4</td> <td>1.8 GHz</td> <td>-</td> <td>2MB</td> <td>Radeon™ R3 Graphics</td> </tr> <tr> <td>E2-6110</td> <td>4</td> <td>1.5 GHz</td> <td>-</td> <td>2MB</td> <td>Radeon R2 Graphics</td> </tr> </tbody> </table> | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | A4-6210 | 4 | 1.8 GHz | - | 2MB | Radeon™ R3 Graphics | E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | Control buttons | Power button, volume control button |
| Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | |
| 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | | | | | | | | | | | | | | | | | | | | | | | |
| A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | | | | | | | | | | | | | | | | | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | | Radeon R2 Graphics | | | | | | | | | | | | | | | | | | | | | | | |
| | | Camera Audio support | HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Keyboard Touchpad | ThinkPad Windows keyboard, 6-row, multimedia Fn keys Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | None | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI) @ 30Hz | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | | | | | | | |
| Models | Windows 7 | Windows 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | AC adapter | 45-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | Preload | <table border="1"> <thead> <tr> <th>Some: Genuine Windows® 7 Professional 64</th> <th>Some: Windows 8.1 64-bit Professional 64</th> </tr> </thead> <tbody> <tr> <td>Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64</td> <td>Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64</td> </tr> </tbody> </table> | Some: Genuine Windows® 7 Professional 64 | Some: Windows 8.1 64-bit Professional 64 | Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | |
| Some: Genuine Windows® 7 Professional 64 | Some: Windows 8.1 64-bit Professional 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | Some: Windows 8.1 Pro 64-bit Some: Windows 10 Home 64 Some: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case color | Graphite Black | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR15AW-7) © Lenovo

ThinkPad 11e (2nd Gen) 20E6 (Intel) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20E6000LUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win7 P64 | 1-depot | No | 04/15 |
| 20E6000NUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20E6000PUS | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20E6000QUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20E6000RUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20E6000SUS | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20E6000TUS | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | Media reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------------------------|---|--|--------------------------|---------------------------------|------------------------------|--|--------------------------|---|-------------------------|-------|-----|------------|------------------------|---------|---|---------|---|-----|---------------------|---------|---|---------|---|-----|--------------------|-----------------|-------------------------------------|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>5Y10c</td> <td>2</td> <td>800 MHz</td> <td>2 GHz</td> <td>4MB</td> <td rowspan="3">DDR3L-1600</td> <td>Intel HD Graphics 5300</td> </tr> <tr> <td>A4-6210</td> <td>4</td> <td>1.8 GHz</td> <td>-</td> <td>2MB</td> <td>Radeon™ R3 Graphics</td> </tr> <tr> <td>E2-6110</td> <td>4</td> <td>1.5 GHz</td> <td>-</td> <td>2MB</td> <td>Radeon R2 Graphics</td> </tr> </tbody> </table> | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | A4-6210 | 4 | 1.8 GHz | - | 2MB | Radeon™ R3 Graphics | E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | Control buttons | Power button, volume control button |
| Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | |
| 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | | | | | | | | | | | | | | | | | | | | | | | |
| A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | | | | | | | | | | | | | | | | | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | | Radeon R2 Graphics | | | | | | | | | | | | | | | | | | | | | | | |
| | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | None | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI) @30Hz | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | | | | | | | |
| Models | Windows 7 | Windows 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | AC adapter | 45-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | Preload | <table border="0"> <tr> <td>Some: Genuine Windows® 7 Professional 64</td> <td>Some: Windows 8.1 64-bit</td> </tr> <tr> <td>Some: Windows 7 Professional 64</td> <td>Some: Windows 8.1 Pro 64-bit</td> </tr> <tr> <td>preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64</td> <td>Some: Windows 10 Home 64</td> </tr> <tr> <td></td> <td>Some: Windows 10 Pro 64</td> </tr> </table> | Some: Genuine Windows® 7 Professional 64 | Some: Windows 8.1 64-bit | Some: Windows 7 Professional 64 | Some: Windows 8.1 Pro 64-bit | preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | Some: Windows 10 Home 64 | | Some: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | |
| Some: Genuine Windows® 7 Professional 64 | Some: Windows 8.1 64-bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Some: Windows 7 Professional 64 | Some: Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | Some: Windows 10 Home 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Some: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case color | Graphite Black | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR15IW-1) © Lenovo

ThinkPad 11e (2nd Gen) 20E6 (Intel) - TopSeller (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20E6000FUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 04/15 |
| 20E6000GUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 04/15 |
| 20E6000JUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 04/15 |
| 20E6000KUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 192G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 05/15 |
| 20E6000HUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 120G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | No | 06/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | |
|---|---|---|----------------|---------------------|--------------------|--------------|---|--|---|--|--------|-----------|-----------|------------------|--------|---------|
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | | | | | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | |
| | | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | |
| | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| | Memory | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets | | | | | | Fingerprint reader | None | | | | | | | |
| AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | | | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| | Models | Windows 7 | Windows 8 | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | AC adapter | 45-watt AC adapter | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | Preload | <i>Some:</i> Genuine Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | | |
| Optical | None | | | | | | Limited warranty ¹² <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | | | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | | | | | | | | | | |
| Case color | Graphite Black | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR15IW-2) © Lenovo

ThinkPad 11e (2nd Gen) 20E6 (Intel) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20E6000UUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E6000VUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E6000WUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E6000XUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 64G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E6000YUS | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 64G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E60010US | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E60011US | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E60012US | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | |
|------------------|---|------------|----------------|---------------------|--------------------|--------------|--------------------------------|--|---|--|--------|-----------|-----------|------------------|--------|---------|
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | | | | | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | |
| | | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Memory | AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Fingerprint reader | None | | | | | | | | |
| | | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | | | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| | Models | Windows 7 | Windows 8 | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | AC adapter | 45-watt AC adapter | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | Preload | <i>Some:</i> Genuine Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | Optical | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | |
| Optical | <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | | Ethernet | | | | | | | | |
| Bluetooth™ | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | WLAN ⁴ | | | | | | | | | |
| | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | WWAN | | | | | | | | |
| | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card | | | | | | Dimensions ³ | | | | | | | | | |
| | 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card | | | | | | | Weight ² | | | | | | | | |
| | 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | Case color | | | | | | | | | |
| | None | | | | | | | Case material | | | | | | | | |
| | None | | | | | | Mil-Spec test | | | | | | | | | |
| | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | | Environment | | | | | | | | |
| | from 3.3 lb (1.49kg) | | | | | | | | | | | | | | | |
| | Graphite Black | | | | | | | | | | | | | | | |
| | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MR15IW-5) © Lenovo

ThinkPad 11e (2nd Gen) 20E8 (Intel)

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20E8000EUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win7 P64 | 1-depot | Yes | 04/15 |
| 20E8000KUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win7 P64 | 1-depot | Yes | 04/15 |
| 20E8000LUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win7 P64 | 1-depot | Yes | 04/15 |
| 20E8000FUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 120G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win7 P64 | 1-depot | Yes | 06/15 |
| 20E8000QUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20E8000RUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20E8000SUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20E8000TUS | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20E8000UUS | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |
| 20E8000VUS | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 DG Win7 | 1-depot | Yes | 08/15 |

| | | | | | | | | | | | |
|---------------------|--|------------|----------------|---------------------|--------------------|---|---|--|--|-----------|--|
| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI) @30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | |
| | | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets | | | | | | Fingerprint reader | Trusted Platform Module, TCG 1.2-compliant | | | |
| Memory | AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | |
| | | | | | | | Max battery life ¹⁰ | Models | Windows 7 | Windows 8 | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | AC adapter | 45-watt AC adapter | | | |
| | Multi-touch: None | | | | | | | Preload | Some: Genuine Windows® 7 Professional 64 | | |
| Hinge | Normal hinge, 180 degree | | | | | | Optical | | Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | |
| | Storage | | | | | | | Some: Windows 8.1 64-bit | | | |
| Ethernet | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | Some: Windows 10 Home 64 | | | | |
| | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | Some: Windows 10 Pro 64 | | | | |
| Bluetooth™ | None | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | |
| | WLAN ⁴ | | | | | | <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Reach PC Device Stage Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate | | | | |
| WWAN | None | | | | | | <ul style="list-style-type: none"> Microsoft® Office preloaded; purchase a product key to activate | | | | |
| | Dimensions ³ | | | | | | Limited warranty ¹² One of the following, configurable by model: | | | | |
| Weight ² | 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | |
| | Case color | | | | | | Mil-Spec test | | | | |
| Case material | Graphite Black | | | | | | MIL-STD-810G military certification | | | | |
| | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | Environment | | | | |
| | | | | | | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | |

See footnotes for more detailed information

(MR15IW-3) © Lenovo

ThinkPad 11e (2nd Gen) 20E8 (Intel) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20E8000GUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | Yes | 04/15 |
| 20E8000JUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | Yes | 04/15 |
| 20E8000MUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | Yes | 04/15 |
| 20E8000DUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 192G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | Yes | 05/15 |
| 20E8000HUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 120G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win8.1 P64 | 1-depot | Yes | 06/15 |

| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | | | | | | | |
|-------------------------|--|------------|----------------|---------------------|--------------------|--------------|--------------------------------|---|--|--|--------|-----------|-----------|------------------|--------|---------|
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Control buttons | Power button, volume control button | | | | | | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | | | | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | | | | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | | | | | | |
| | Intel or AMD SoC (System on Chip) platform <i>Intel models:</i> 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets <i>AMD models:</i> 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | |
| Chipset | | | | | | | Fingerprint reader | None | | | | | | | | |
| Memory | | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | | | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>Windows 7</th> <th>Windows 8</th> </tr> </thead> <tbody> <tr> <td>MobileMark® 2012</td> <td>6.6 hr</td> <td>6.68 hr</td> </tr> </tbody> </table> | | | Models | Windows 7 | Windows 8 | MobileMark® 2012 | 6.6 hr | 6.68 hr |
| | Models | Windows 7 | Windows 8 | | | | | | | | | | | | | |
| MobileMark® 2012 | 6.6 hr | 6.68 hr | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | AC adapter | 45-watt AC adapter | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | Preload | <i>Some:</i> Genuine Windows® 7 Professional 64 <i>Some:</i> Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Lenovo Photo Editor (Win8.1 model) Lenovo Video Editor (Win8.1 model) Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | | |
| Optical | None | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, ThinkPad 11ac, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | WWAN | None | | | | | | | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service (US only) | | | | | | | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | |
| Case color | Graphite Black | | | | | | Environment | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad 11e (2nd Gen) 20E8 (Intel) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|----------|--------|----------|-----------|------------------|-----------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20E8000WUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E8000XUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E8000YUS | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E80010US | 5Y10c | HD 5300 | 4GBx1 | 11.6" HD | 64G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E80011US | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 64G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E80012US | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E80013US | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 500G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |
| 20E80014US | 5Y10c | HD 5300 | 8GBx1 | 11.6" HD | 320G 7200 | 7265 ac+BT | Black | 720p | None | 4 | 45W | Win10 P64 | 1-depot | No | 09/15 |

| | | | | | | | | | | | |
|---|---|---|----------------|---------------------|--------------------|--------------------|--|--|---|------------------------------|--|
| Processor | Intel® Core™ M Processor or AMD A-Series or E-Series Accelerated Processor | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| | Processor Number | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | One USB 3.0, one powered USB 2.0, HDMI, Ethernet (RJ-45) | | |
| | 5Y10c | 2 | 800 MHz | 2 GHz | 4MB | DDR3L-1600 | Intel HD Graphics 5300 | Control buttons | Power button, volume control button | | |
| | A4-6210 | 4 | 1.8 GHz | - | 2MB | | Radeon™ R3 Graphics | Camera | HD720p resolution, low light sensitive, fixed focus | | |
| E2-6110 | 4 | 1.5 GHz | - | 2MB | Radeon R2 Graphics | | Audio support | HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack | | | |
| Graphics | Intel HD Graphics 5300 or AMD Radeon R2 or Radeon R3 Graphics in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 4096X2160 (HDMI)@30Hz | | | | | | Keyboard | ThinkPad Windows keyboard, 6-row, multimedia Fn keys | | | |
| | | | | | | | Touchpad | Buttonless touchpad below keyboard, multi-touch | | | |
| Chipset | Intel or AMD SoC (System on Chip) platform | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | |
| | Memory | Intel models: 4GB or 8GB / PC3-12800 1600MHz DDR3L, soldered to systemboard, no sockets | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | |
| AMD models: 8GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | Fingerprint reader | None | | | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | Battery type | Integrated Lithium Polymer 4-cell (35Wh) | | | |
| Multi-touch | None | | | | | | Max battery life ¹⁰ | Models | Windows 7 | Windows 8 | |
| Hinge | Normal hinge, 180 degree | | | | | | | MobileMark® 2012 | 6.6 hr | 6.68 hr | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | | AC adapter | 45-watt AC adapter | | | |
| Optical | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ | | | | | | Preload | Some: Genuine Windows® 7 Professional 64 | | Some: Windows 8.1 64-bit | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | Some: Windows 7 Professional 64 | | Some: Windows 8.1 Pro 64-bit | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Some: Windows 10 Home 64 | | Some: Windows 10 Pro 64 | | |
| WLAN ⁴ | 11b/g/n, ThinkPad 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 card | | | | | | preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | • Lenovo Solution Center | | |
| WWAN | None | | | | | | • ThinkVantage Product Recovery | | • Lenovo SHAREit | | |
| Dimensions ³ | 11.6W" (WxDxH): 11.81" x 8.50" x 0.88"; 300mm x 216mm x 22.3mm | | | | | | • Rescue and Recovery™ | | • Lenovo Companion | | |
| | | | | | | | • ThinkVantage System Update | | • Lenovo Photo Editor (Win8.1 model) | | |
| Weight ² | from 3.3 lb (1.49kg) | | | | | | • Lenovo Reach | | • Lenovo Video Editor (Win8.1 model) | | |
| Case color | | | | | | | • PC Device Stage | | • Microsoft Office preloaded; purchase a product key to activate | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | • Nitro Pro | | • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) | | |
| | | | | | | | • Evernote® | | • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | |
| | | | | | | | • Skype™ | | | | |
| | | | | | | | • Microsoft® Office preloaded; purchase a product key to activate | | | | |
| Limited warranty ¹² | | | | | | | One of the following, configurable by model: | | | | |
| | | | | | | | • 1-year depot repair service | | | | |
| | | | | | | | • 3-year/1-yr battery depot repair service (US only) | | | | |
| Mil-Spec test | | | | | | | | | | | |
| Environment | | | | | | | EPEAT™ Silver; ENERGY STAR® 6.1; RoHS-compliant | | | | |

See footnotes for more detailed information

(MR15IW-6) © Lenovo



Lenovo® ThinkPad 11e (3rd Gen)



Lenovo ThinkPad 11e (3rd Gen)



Lenovo ThinkPad 11e (3rd Gen)

ThinkPad 11e (3rd Gen) 20GB (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | WLAN & Bluetooth | Top color | Camera | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|----------|--------|----------|----------------|------------------|-----------|--------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20GB000JUS | Cel N3150 | Intel HD | 4GBx1 | 11.6" HD | 192G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000KUS | Cel N3150 | Intel HD | 8GBx1 | 11.6" HD | 192G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000LUS | Cel N3150 | Intel HD | 8GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000MUS | Cel N3150 | Intel HD | 8GBx1 | 11.6" HD | 256G SSD Opal2 | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000NUS | Cel N3150 | Intel HD | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000PUS | i3-6100U | HD 520 | 4GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000QUS | i3-6100U | HD 520 | 8GBx1 | 11.6" HD | 128G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000RUS | i3-6100U | HD 520 | 8GBx1 | 11.6" HD | 192G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000SUS | i3-6100U | HD 520 | 8GBx1 | 11.6" HD | 256G SSD Opal2 | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000TUS | Cel N3150 | Intel HD | 2GBx1 | 11.6" HD | 256G SSD Opal2 | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |
| 20GB000UUS | i3-6100U | HD 520 | 4GBx1 | 11.6" HD | 192G SSD | 7265 ac+BT | Black | 720p | None | 3 | 45W | Win10 P64 | 1-depot | No | 02/16 |

| | | | | | | | | | | | |
|--|---|--|--|--|--|--|--------------------|---|---|--|--|
| Processor | Intel® Celeron® processor, Intel Pentium® Processor, or 6th Generation Intel Core™ i3 Processor | | | | | | | Media reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, HDMI, Ethernet (RJ-45) | | |
| | | | | | | | | Control buttons | Power button, volume control button | | |
| | | | | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | |
| | | | | | | | | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/microphone jack | | |
| | | | | | | | Keyboard UltraNav™ | ThinkPad Windows keyboard, 6-row, multimedia Fn keys Buttonless touchpad below keyboard, multi-touch | | | |
| Graphics | Intel HD Graphics, Intel HD Graphics 510, or Intel HD Graphics 520 in processor, supports external digital monitor via HDMI™; supports dual independent display; Max resolution: 1920X1080 (HDMI) @30Hz | | | | | | | Security Security chip vPro | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None | | |
| Chipset Memory | Intel SoC (System on Chip) platform 2GB, 4GB, or 8GB / PC3-12800 1600MHz DDR3L, one DDR3L SO-DIMM socket | | | | | | | Fingerprint reader | None | | |
| Display | 11.6" (295mm) HD (1366x768), anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | | | | | | | Battery Max battery life ¹⁰ | Integrated Lithium Polymer 3-cell (42Wh) <i>MobileMark® 2014:</i> 11.53 hr | | |
| Multi-touch Hinge | None Normal hinge, 180 degree | | | | | | | AC adapter | 45-watt AC adapter | | |
| Storage Optical | M.2 Solid State Drive (SSD), SATA 6.0Gb/s None | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | |
| Ethernet | Realtek RTL8111GUS-CG Gigabit Network Connection | | | | | | | | <i>Some:</i> Windows 10 Home 64 <i>Some:</i> Windows 10 Pro 64 • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> • 11ac+BT, Intel Dual Band Wireless-AC 3165, 1x1, M.2 card • 11ac+BT, Intel Dual Band Wireless-AC 7265, 2x2, M.2 card | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | |
| WWAN | None | | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service (US only) | | |
| Dimensions ³ Weight ² | WxDxH: 11.81" x 8.27" x 0.88"; 300mm x 210mm x 22.3mm from 3.3 lb (1.5kg) | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | |
| Case color | Display cover: Graphite Black or Silver; Bottom: Graphite Black | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant | | |
| Case material | Display cover: PC+40%GF+TPU; Bottom: PCC | | | | | | | | | | |

See footnotes for more detailed information

(NT1W-1) © Lenovo



Lenovo® ThinkPad X240



Lenovo ThinkPad X240



Lenovo ThinkPad X240



Lenovo ThinkPad X240



Lenovo ThinkPad X240

ThinkPad X240 Platform Specifications

Product Specifications Reference (PSREF)

| Positioning | Ultraportable Ultrabook™ or Thinbook; one spindle | | | | | | | WLAN ⁴ | One of the following, configurable by model: <ul style="list-style-type: none"> ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------------------|---|---------------------|-------|--------------|------------------------|--|---|------------------------|--|-----------------|---------------------|------------------|------------------|--------------------|------------------|------------|---|---------|------------------|------------------|------------|--|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | <table border="1"> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> <tr> <td>i3-4010U</td> <td rowspan="6">2</td> <td rowspan="6">4</td> <td>1.7 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="6">DDR3L-1600</td> <td rowspan="6">Intel HD graphics 4400</td> </tr> <tr> <td>i5-4200U</td> <td>1.6 GHz</td> <td>2.6 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4210U</td> <td>1.7 GHz</td> <td>2.7 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300U</td> <td>1.9 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600U</td> <td>2.1 GHz</td> <td>3.3 GHz</td> <td>4MB</td> </tr> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | i3-4010U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | Intel HD graphics 4400 | i5-4200U | 1.6 GHz | 2.6 GHz | 3MB | i5-4210U | 1.7 GHz | 2.7 GHz | 3MB | i5-4300U | 1.9 GHz | 2.9 GHz | 3MB | i7-4600U | 2.1 GHz | 3.3 GHz | 4MB |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4010U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | Intel HD graphics 4400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4200U | | | 1.6 GHz | 2.6 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4210U | | | 1.7 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-4600U | | | 2.1 GHz | 3.3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | | | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | | WWAN (optional) | One of the following, configurable by model (mutually exclusive with M.2 SSD): <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | SIM card (optional) | One of the following, configurable by model: <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | Some: SSHD with 8GB NAND flash memory Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768) , anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio, TN Some: 12.5" (317.5mm) HD (1366x768) , anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080) , anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS | | | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | | | NFC | Optional: Near Field Communication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@30Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ThinkLight™ | None | | | | | | | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Lenovo Cloud Storage by SugarSync PC Device Stage Nitro Pro Evernote® Skype™ Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>No + 6-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-MultiTouch</td> <td>2.88 lb / 1.31kg</td> <td>3.23 lb / 1.47kg</td> <td>3.13 lb / 1.42kg</td> <td>3.48 lb / 1.58kg</td> </tr> <tr> <td>MultiTouch</td> <td>-</td> <td>-</td> <td>3.29 lb / 1.49kg</td> <td>3.64 lb / 1.65kg</td> </tr> </tbody> </table> | | | | | | | Models | No + 3-cell | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | | Some: Windows 8 / 8.1 64-bit Some: Windows 8 / 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center Lenovo Support Lenovo Companion ThinkVantage System Update Lenovo Reach (Windows 8.1 model) Hightail - Metro (Windows 8.1 model) Lenovo Cloud Storage by SugarSync - Metro (Windows 8 model) Lenovo Cloud Storage by SugarSync (Windows 8 model) PC Device Stage AccuWeather Amazon Kindle Nitro Pro Evernote Skype Rara Streaming Norton Studio Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions) | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | No + 6-cell | 3-cell + 3-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Battery configuration</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 47.5Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>8.7 hr</td> <td>13.1 hr</td> <td>17.4 hr</td> </tr> </tbody> </table> | | | | | | | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell 47.5Wh | 3-cell + 6-cell 72Wh | Battery life | 8.7 hr | 13.1 hr | 17.4 hr | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell 47.5Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 8.7 hr | 13.1 hr | 17.4 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Smart card reader | Optional: Smart card reader, exclusive with M.2 SSD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ThinkPad X240 20AL (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|----------------|----------|---------------|--------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|-------------------------|----------------------|--------------|----------------------|---------|----------------|
| 20AL00FRUS | i3-4010U | No | HD 4400 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | None | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 09/14 |
| 20AL00FSUS | i3-4010U | No | HD 4400 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | None | None | Finger | None | No+6(47.5wh) | 45W | Win8 DG Win7 | 1-depot | No | 09/14 |
| 20AL00FTUS | i3-4010U | No | HD 4400 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 b/g/n+BT | Upg | None | None | None | None | Finger | None | 3+3 | 45W | Win8 DG Win7 | 1-depot | No | 09/14 |
| 20AL008WUS | i5-4200U | No | HD 4400 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 b/g/n+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL008XUS | i5-4200U | No | HD 4400 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 b/g/n+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL008YUS | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0090US | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0091US | i5-4300U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0096US | i5-4300U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0097US | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0098US | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0099US | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009AUS | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009BUS | i5-4300U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009EUS | i5-4300U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009FUS | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009HUS | i5-4300U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL00FJUS | i5-4300U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 07/14 |
| 20AL0092US | i7-4600U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0093US | i7-4600U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL0094US | i7-4600U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | |
|--------------------------------|---|------------------|---|----------------------|------------------|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | Keyboard |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | UltraNav™ |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | ThinkLight™ |
| | | | | | | | Chipset |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | Smart card reader | Optional: Smart card reader |
| Optical Storage | None | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector |
| | Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card |
| | Some: SSHD with 8GB NAND flash memory | | | | | | 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader | | | | | | 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card |
| | Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio | | | | | WWAN (optional) | Upg: Wireless WAN upgradable |
| | Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS | | | | | | EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS |
| | Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Select: | User selectable, contract required with service provider |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) |
| Dimensions ³ | 12.5W" (WxDxH): | | 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm | | | vPro model: | Intel Ethernet Connection I218-LM (Clarkville) |
| | 12.5W" MultiTouch (WxDxH): | | 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | NFC | Optional: Near Field Communication |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | Security | Power-on password, hard disk password, supervisor password, security keyhole |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | Security chip | Trusted Platform Module, TCG 1.2-compliant |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | vPro (optional) | Intel vPro Technology |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell 47.5Wh | 3-cell + 6-cell 72Wh | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit |
| | Battery life | 8.7 hr | 13.1 hr | 17.4 hr | | | |
| AC adapter | 45-watt AC adapter | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | |

See footnotes for more detailed information
 US model(s) withdrawn effective March 2015

(WV1-1) © Lenovo

ThinkPad X240 20AL (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|----------------|----------|--------|---------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|-------------------------|----------------------|--------------|----------------------|--------|----------------|
| 20AL0095US | i7-4600U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009CUS | i7-4600U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009DUS | i7-4600U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL009GUS | i7-4600U vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 11/13 |
| 20AL00FKUS | i7-4600U vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 07/14 |
| 20AL00FLUS | i7-4600U vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 DG Win7 | 3-depot | No | 07/14 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | |
|--------------------------------|--|------------------|------------------|---------------------|--|---------------------|--|---|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | ThinkLight™ | None | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | |
| i7-4600U | 2.1 GHz | | 3.3 GHz | 4MB | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | Chipset | Intel SoC (System on Chip) platform | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Smart card reader | Optional: Smart card reader | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768) , 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768) , 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080) , 400 nits, 700:1 contrast ratio, IPS | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | NFC | Optional: Near Field Communication | | | | |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | vPro (optional) | Intel vPro Technology | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | |
| | Battery life | 8.7 hr | 13.1 hr | 17.4 hr | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |

See footnotes for more detailed information

(WV1-2) © Lenovo

ThinkPad X240 20AL (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|------------------|--------------------|------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20AL00D9US | i5-4200U | No | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 03/14 |
| 20AL008GUS | i5-4200U | No | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 500G 7200 | 7260 b/g/n+BT | Upg | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL008HUS | i5-4200U | No | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 b/g/n+BT | Upg | None | None | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL00D3US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 03/14 |
| 20AL00D4US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 03/14 |
| 20AL008JUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL008KUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL008NUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL008PUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL009JUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL00D5US | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 03/14 |
| 20AL00D7US | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | No | 03/14 |
| 20AL008LUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL008MUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL008QUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL008RUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AL009KUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|------------------|------------------|---------------------|------------------|--|--|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | UltraNav™ | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | ThinkLight™ | None | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Smart card reader | Optional: Smart card reader | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE / HSPA+ / EVDO / GSM / GPRS / EDGE, GPS | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | NFC | Optional: Near Field Communication | | | | | |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | vPro (optional) | Intel vPro Technology | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| | Battery life | 8.7 hr | | 13.1 hr | | 17.4 hr | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective March 2015

(WV1-3) © Lenovo

ThinkPad X240 20AM (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells(adapter (int+ext)) | Power (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|----------------------------------|--------------|------------|----------------------|---------|----------------|
| 20AM009FUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM009JUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM009KUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM009MUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM009PUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM00AMUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 a/b/g/n+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 05/14 |
| 20AM00ANUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 a/b/g/n+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 05/14 |
| 20AM00AQUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 a/b/g/n+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 05/14 |
| 20AM0014US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM0016US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM0019US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | None | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001CUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001FUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001JUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001VUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM004MUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM004RUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 11/13 |
| 20AM004TUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM004VUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM004YUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | EM7355 | Select | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 11/13 |
| 20AM0052US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 128G SSD | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|------------------|------------------|---------------------|------------------|---------------------|--|---|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upp: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Multi-touch Camera (optional) | Some: Capacitive-type multi-touch, supports 10-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | NFC | Optional: Near Field Communication | | | | | |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | | | | |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |
| | Battery life | 8.7 hr | 13.1 hr | | 17.4 hr | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | |

See footnotes for more detailed information

(WV1-4) © Lenovo

ThinkPad X240 20AM (Windows 8) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells(adapter (int+ext)) | Power (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|----------------------------------|--------------|------------|----------------------|---------|----------------|
| 20AM0054US | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM0057US | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 11/13 |
| 20AM0059US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | EM7355 | Select | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-depot | Yes | 11/13 |
| 20AM0060US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AM0061US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AM0066US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AM006FUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AM009RUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM009UUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM009XUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM009YUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 03/14 |
| 20AM00APUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 05/14 |
| 20AM00ARUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-depot | Yes | 05/14 |
| 20AM001BUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001DUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001KUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001LUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM001QUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM004LUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM0053US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 10/13 |
| 20AM005AUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 11/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|------------------|------------------|---------------------|------------------|---------------------|--|---|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | | | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | Chipset | Intel SoC (System on Chip) platform | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Smart card reader | Optional: Smart card reader | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | | | | | |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | NFC | | | | | | |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | |
| | Battery life | 8.7 hr | 13.1 hr | | 17.4 hr | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |

See footnotes for more detailed information

(WV1-5) © Lenovo

ThinkPad X240 20AM (Windows 8) - III

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells(adapter (int+ext)) | Power (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|----------------------------------|--------------|----------|----------------------|---------|----------------|
| 20AM005BUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | Yes | 11/13 |
| 20AM0062US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AM0069US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AM006AUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |
| 20AM006GUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-depot | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---------|------------------|------------------|---------------------|-------------------|---------------------|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Audio support | | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | | | | | | | | | |
| | Processor | | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard | | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | |
| | i3-4010U | | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | UltraNav™ | | TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | |
| | i5-4200U | | | 1.6 GHz | 2.6 GHz | 3MB | | ThinkLight™ | | None | | | | | | | | | | | | |
| | i5-4300U | | | 1.9 GHz | 2.9 GHz | 3MB | | Chipset | | Intel SoC (System on Chip) platform | | | | | | | | | | | | |
| i7-4600U | | 2.1 GHz | | 3.3 GHz | 4MB | Smart card reader | | Optional: Smart card reader | | | | | | | | | | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | Media reader | | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Ports | | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | WLAN ⁴ | | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | | WWAN (optional) | | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | | SIM card (optional) | | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Bluetooth™ | | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | | Ethernet | | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | | | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | NFC | | Optional: Near Field Communication | | | | | | | | | | | | | |
| Weight ² | Models | | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | Security | | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | |
| | Non-MultiTouch | | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | Security chip | | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | |
| | MultiTouch | | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | vPro (optional) | | Intel vPro Technology | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | Fingerprint reader | | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Preload | | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | | | | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | | | | | | | | |
| | Battery life | | 8.7 hr | 13.1 hr | | 17.4 hr | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(WV1-6) © Lenovo

ThinkPad X240 20AM (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells(adapter (int+ext)) | Power (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|----------------------------------|--------------|------------|----------------------|---------|----------------|
| 20AM009GUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM009HUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM009LUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM009NUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM009QUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM001AUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM001HUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM001SUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 500G 7200 | 7260 ac+BT | Upp | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM001UUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 128G SSD | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM004PUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM004HUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM004SUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | EM7355 | Select | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 11/13 |
| 20AM004UUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 128G SSD | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 11/13 |
| 20AM004XUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM0050US | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 11/13 |
| 20AM0055US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM0056US | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 11/13 |
| 20AM0058US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | EM7355 | Select | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-onsite | Yes | 11/13 |
| 20AM0064US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |
| 20AM0065US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-onsite | No | 11/13 |
| 20AM0067US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upp | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|------------------|------------------|---------------------|------------------|--|--|---|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upp: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | NFC | Optional: Near Field Communication | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | vPro (optional) | Intel vPro Technology | | | | | |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | | | | | | |
| | Battery life | 8.7 hr | 13.1 hr | | 17.4 hr | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |

See footnotes for more detailed information

(WV1-7) © Lenovo

ThinkPad X240 20AM (Onsite) - Windows 8 - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells(adapter (int+ext)) | Power (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|-----------------|------------------|----------------|----------|-----------------------------|--------|------------------|--------------------|------|----------------------------------|--------------|------------|----------------------|---------|----------------|
| 20AM006DUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |
| 20AM006EUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |
| 20AM009SUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM009TUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM009VUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 Select | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM009WUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" FHD IPS | MT | 180G SSD Opal | 7260 ac+BT | EM7355 Select | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 03/14 |
| 20AM0011US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM0012US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM0015US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM001MUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM001PUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM004NUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 Select | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 11/13 |
| 20AM004WUS | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM0051US | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 180G SSD Opal | 7260 ac+BT | EM7355 Select | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 11/13 |
| 20AM005CUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | Yes | 10/13 |
| 20AM0063US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |
| 20AM0068US | i7-4600U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |
| 20AM006BUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |
| 20AM006CUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | No | 11/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|---|------------------|------------------|---------------------|------------------|--|--|---|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Multi-touch Camera (optional) | Some: Capacitive-type multi-touch, supports 10-finger gesture HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | NFC | Optional: Near Field Communication | | | | | |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | Security chip vPro (optional) | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Win8 / 8.1 64: Windows 8 / 8.1 64-bit | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | | | | | | |
| | Battery life | 8.7 hr | 13.1 hr | | 17.4 hr | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |

See footnotes for more detailed information

(WV1-8) © Lenovo

ThinkPad X240 20AM (Onsite) - Windows 8 - III

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN / M.2 SSD | SIM card | Smart card reader / M.2 SSD | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) | |
|------------|-----------|------|----------|--------|--------------|-------------|-----------|------------------|----------------|----------|-----------------------------|--------|-------------------|---------------------|------|-------------------------|----------------------|----------|----------------------|--------|----------------|-------|
| 20AM001NUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | OID | Yes | 10/13 |
| 20AM001RUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | 16GB | 720p | Backlit | Finger | None | 3+3 | 45W | Win8 P64 | 3-onsite | OID | Yes | 10/13 |
| 20AM001TUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD | No | 500G 7200 | 7260 ac+BT | Upg | None | None | 720p | None | Finger | None | No+6(72wh) | 45W | Win8 P64 | 3-onsite | OID | Yes | 10/13 |

• For detailed platform specifications, please see [ThinkPad X240 Platform Specifications sheet](#)

| | | | | | | | | | | | | | |
|--------------------------------|---|------------------|------------------|---------------------|------------------|--------------|--|--|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1.5W x 2 / dual array mic, combo audio/mic jack | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and Mylar surface touchpad, integrated five buttons, multi-touch | | | | | |
| | i3-4010U | 2 | 1.7 GHz | - | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | | |
| | i5-4200U | | 1.6 GHz | 2.6 GHz | 3MB | | | | | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | | | | | | | |
| i7-4600U | 2.1 GHz | | 3.3 GHz | 4MB | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Smart card reader | Optional: Smart card reader | | | | | |
| Memory | 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket | | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | |
| Optical Storage | None Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | |
| M.2 SSD | Some: Single-sided M.2 SSD, via M.2 card slot, exclusive with Smart card reader Some: Double-sided M.2 SSD, via M.2 card slot, exclusive with WWAN card | | | | | | WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| Widescreen display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Camera (optional) | HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Graphics | Intel HD Graphics 4400 in processor | | | | | | Ethernet | Non-vPro model: Intel Ethernet Connection I218-V (Clarkville) vPro model: Intel Ethernet Connection I218-LM (Clarkville) Optional: Near Field Communication | | | | | |
| Dimensions ³ | 12.5W" (WxDxH): 12.0" x 8.21" x 0.78"; 305.5mm x 208.5mm x 19.9mm 12.5W" MultiTouch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | NFC | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Weight ² | Models | 3-cell only | 6-cell only | 3-cell + 3-cell | 3-cell + 6-cell | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | Non-MultiTouch | 2.88 lb / 1.31kg | 3.23 lb / 1.47kg | 3.13 lb / 1.42kg | 3.48 lb / 1.58kg | | vPro (optional) | Intel vPro Technology | | | | | |
| | MultiTouch | - | - | 3.29 lb / 1.49kg | 3.64 lb / 1.65kg | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | Preload | Win8 / 8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 / 8.1 Pro 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 64-bit Win8 / 8.1 P64: Windows 8 / 8.1 Pro 64-bit | | | | | |
| Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23.5Wh), HW Authentication | | | | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | |
| External battery | Li-Ion 3-cell (23.5Wh) or 6-cell (47.5Wh or 72Wh), HW Authentication | | | | | | | | | | | | |
| Max battery life ¹⁰ | Battery configuration | 3-cell + 3-cell | 3-cell + 6-cell | 47.5Wh | 3-cell + 6-cell | 72Wh | | | | | | | |
| | Battery life | 8.7 hr | 13.1 hr | | 17.4 hr | | | | | | | | |
| AC adapter | 45-watt AC adapter | | | | | | | | | | | | |

See footnotes for more detailed information

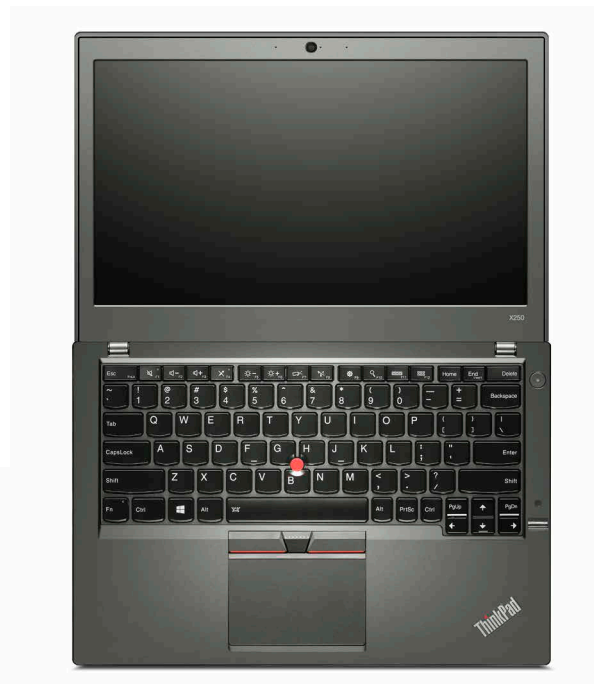
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Lenovo® ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250



Lenovo ThinkPad X250

ThinkPad X250 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | |
|-------------------------|---|-------------------|----------------------|----------------------|---------------------|-------|--------------|------------------------|--------------------------------|---|-----------------|-------------|-----------------|----------------------|----------------------|-------------------|-------------------|-------------------|-------------|---------|-------------------|---|-------------------|--------------------------------|---|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | |
| | i5-4300U | 2 | 4 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | Intel HD graphics 4400 | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | |
| | i3-5010U | | | 2.1 GHz | - | 3MB | | Intel HD Graphics 5500 | | | | | | | | | | | | | | | | | |
| | i5-5200U | | | 2.2 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | |
| | i5-5300U | | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA) | | | | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | |
| Display | <i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio <i>Some:</i> 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS <i>Some:</i> 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, 400 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS | | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | |
| Ethernet | <i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville) | | | | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | |
| WWAN (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16.0 hr</td> <td>21.4 hr</td> </tr> </tbody> </table> | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | AC adapter | 45W AC adapter | | | | | | | | | | | | | | | |
| Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update PC Device Stage Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | | | | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>No + 6-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>2.88 lb / 1.31 kg</td> <td>3.13 lb / 1.42 kg</td> <td>3.23 lb / 1.47 kg</td> <td>3.48 lb / 1.58 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>3.29 lb / 1.49 kg</td> <td>-</td> <td>3.64 lb / 1.65 kg</td> </tr> </tbody> </table> | | | | | | | | Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) |
| Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg | | | | | | | | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); <i>Bottom:</i> Glass-Fiber Reinforced Plastic | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | |
| | | | | | | | | | Environment | EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | |

ThinkPad X250 20CM (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20CM002XUS | i5-5200U | No | HD 5500 | 8GBx1 | 12.5" HD | No | 500G 5400 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0036US | i5-5200U | No | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 5400 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM002VUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM002YUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD | No | 500G 5400 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0030US | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0031US | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 5400 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0032US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0033US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0034US | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0035US | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM002WUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CM0046US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20CM0047US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20CM0049US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 5400 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20CM0048US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20CMA00FUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 03/15 |
| 20CM004FUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" FHD IPS | MT | 500G 7200 Opal | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 05/15 |
| 20CM004GUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 500G 7200 Opal | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 05/15 |
| 20CM004HUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 05/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|------------|----------------|---------------------|-------|--------------------------------|---|---|--|--|--|-------------------|--|--|--|--|-------------------|--|--|--|--|----------------------|--|--|--|--|----------------------|--|--|--|--|
| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | | | | | | | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | No + 3-cell | | | | | 3-cell + 3-cell | | | | | No + 6-cell | | | | | 3-cell + 6-cell | | | | | | | | | |
| | i3-5010U | | 2.1 GHz | - | 3MB | | Non-touch | | | | | 2.88 lb / 1.31 kg | | | | | 3.13 lb / 1.42 kg | | | | | 3.23 lb / 1.47 kg | | | | | 3.48 lb / 1.58 kg | | | | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | Multi-touch | | | | | - | | | | | 3.29 lb / 1.49 kg | | | | | - | | | | | 3.64 lb / 1.65 kg | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Max battery life ¹⁰ | Models | | | | | No + 3-cell | | | | | 3-cell + 3-cell | | | | | 3-cell + 6-cell 48Wh | | | | | 3-cell + 6-cell 72Wh | | | | |
| | | | | | | AC adapter | 45W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(WV2-1) © Lenovo

ThinkPad X250 20CM (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|---------------|----------------------|--------|----------------|
| 20CM005XUS | i7-5600U | vPro | HD 5500 | 4GBx1 | 12.5" FHD IPS | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005YUS | i7-5600U | vPro | HD 5500 | 16GBx1 | 12.5" FHD IPS | MT | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM0060US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005SUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005TUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005UUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005VUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005WUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005GUS | i5-5200U | No | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 Opal | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005HUS | i5-5200U | No | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005JUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005KUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005LUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005MUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005NUS | i7-5600U | vPro | HD 5500 | 16GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005PUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005QUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 512G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM005RUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20CM008FUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20CM008GUS | i5-5200U | No | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 Opal | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--------------------------------|--|----------------------|---------------------|-------|--------------|-------------|-----------------|----------------------|----------------------|--------------|------------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|--|--|--|--|--|--|---------------------|--|--|--|--|--------|-------------|-----------------|-------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------|---|-------------------|---|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-4300U</td> <td rowspan="6">2</td> <td>1.9 GHz</td> <td>2.9 GHz</td> <td>3MB</td> <td rowspan="6">DDR3L-1600</td> </tr> <tr> <td>i3-5010U</td> <td>2.1 GHz</td> <td>-</td> <td>3MB</td> </tr> <tr> <td>i5-5200U</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | i3-5010U | 2.1 GHz | - | 3MB | i5-5200U | 2.2 GHz | 2.7 GHz | 3MB | i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>No + 6-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>2.88 lb / 1.31 kg</td> <td>3.13 lb / 1.42 kg</td> <td>3.23 lb / 1.47 kg</td> <td>3.48 lb / 1.58 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>3.29 lb / 1.49 kg</td> <td>-</td> <td>3.64 lb / 1.65 kg</td> </tr> </tbody> </table> | | | | Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5010U | | 2.1 GHz | - | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16.0 hr</td> <td>21.4 hr</td> </tr> </tbody> </table> | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(WV2-5) © Lenovo

ThinkPad X250 20CM (TopSeller) - III

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) | |
|------------|-----------|------|----------|--------|----------|-------------|-----------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------|----------------------|---------|----------------|-------|
| 20CM008DUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG | Win7 | 3-depot | No | 09/15 |
| 20CM008EUS | i5-5200U | No | HD 5500 | 8GBx1 | 12.5" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG | Win7 | 3-depot | No | 09/15 |
| 20CM008HUS | i5-5200U | No | HD 5500 | 8GBx1 | 12.5" HD | No | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG | Win7 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|-------------------|--|------------|----------------|---------------------|-------|--------------------------------|--|---|-------------------|----------------------|----------------------|-----------------|
| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell |
| | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | |
| | i3-5010U | | 2.1 GHz | - | 3MB | | Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| | | | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Optical | None | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Max battery life ¹⁰ | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | AC adapter | 45W AC adapter | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | Preload | Win8.1 / 10 DG Win7: | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | |
| | | | | | | Win8.1 64: | Windows 8.1 64-bit | | | | | |
| | | | | | | Win8.1 P64: | Windows 8.1 Pro 64-bit | | | | | |
| | | | | | | Win10 P64: | Windows 10 Pro 64 | | | | | |
| | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | |

See footnotes for more detailed information

(WV2-6) © Lenovo

ThinkPad X250 20CM (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20CM0087US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM0088US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM0089US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM008AUS | i7-5600U | vPro | HD 5500 | 16GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM0083US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM0084US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | Smart | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM0085US | i5-5200U | No | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM0086US | i7-5600U | vPro | HD 5500 | 16GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | Smart | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |
| 20CM008BUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|-------------------|----------------------|----------------------|-------|--------------------------------|--|--|--|--|--|--------|-------------|-----------------|----------------------|----------------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------|---|-------------------|---|-------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>No + 6-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>2.88 lb / 1.31 kg</td> <td>3.13 lb / 1.42 kg</td> <td>3.23 lb / 1.47 kg</td> <td>3.48 lb / 1.58 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>3.29 lb / 1.49 kg</td> <td>-</td> <td>3.64 lb / 1.65 kg</td> </tr> </tbody> </table> | | | | | Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg |
| Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | |
| | i3-5010U | | 2.1 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16.0 hr</td> <td>21.4 hr</td> </tr> </tbody> </table> | | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | AC adapter | 45W AC adapter | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(WV2-7) © Lenovo

ThinkPad X250 20CL

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|-----------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20CL0019US | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 5400 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CL001AUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD | No | 500G 5400 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CL001HUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 5400 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | No+6(48wh) | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CL001KUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 5400 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CL001MUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 5400 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20CL005AUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 05/15 |
| 20CL0059US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-depot | No | 05/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|-------------------|----------------------|----------------------|-------|--------------------------------|--|--|--|--|--|--------|-------------|-----------------|----------------------|----------------------|-----------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------|---|-------------------|---|-------------------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>No + 6-cell</th> <th>3-cell + 6-cell</th> </tr> </thead> <tbody> <tr> <td>Non-touch</td> <td>2.88 lb / 1.31 kg</td> <td>3.13 lb / 1.42 kg</td> <td>3.23 lb / 1.47 kg</td> <td>3.48 lb / 1.58 kg</td> </tr> <tr> <td>Multi-touch</td> <td>-</td> <td>3.29 lb / 1.49 kg</td> <td>-</td> <td>3.64 lb / 1.65 kg</td> </tr> </tbody> </table> | | | | | Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg |
| Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell | | | | | | | | | | | | | | | | | | | | | | | |
| Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | |
| | i3-5010U | | 2.1 GHz | - | 3MB | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>5.2 hr</td> <td>10.7 hr</td> <td>16.0 hr</td> <td>21.4 hr</td> </tr> </tbody> </table> | | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 5.2 hr | 10.7 hr | 16.0 hr | 21.4 hr | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | AC adapter | 45W AC adapter | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | | | | | | | | | | | | | | | | | | | |

ThinkPad X250 20CL (Onsite)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|----------------|----------------------|--------|----------------|
| 20CL001DUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20CL001FUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20CL001GUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD | No | 500G 7200 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20CL001JUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20CL001NUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 180G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20CL001BUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20CL001LUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 DG Win7 | 3-onsite | Yes | 01/15 |
| 20CL00A9US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00AAUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00ABUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A6US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A7US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A8US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A0US | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A1US | i5-5200U | No | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A2US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A3US | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A4US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 128G SSD | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |
| 20CL00A5US | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | None | Finger | 3+3 | 45W | Win10 DG Win7 | 3-onsite | Yes | 08/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|------------|----------------|---------------------|-------|--------------------------------|--|-----------------------------|--|--|--|---|--|--|--|--|--|--|--|--|--|----------------------|--|--|--|--|----------------------|--|--|--|--|---------|--|--|--|--|
| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | No + 3-cell | | | | | 3-cell + 3-cell | | | | | No + 6-cell | | | | | 3-cell + 6-cell | | | | | | | | | | | | | | |
| | i3-5010U | | 2.1 GHz | - | 3MB | | Non-touch | | | | | 2.88 lb / 1.31 kg | | | | | 3.13 lb / 1.42 kg | | | | | 3.23 lb / 1.47 kg | | | | | 3.48 lb / 1.58 kg | | | | | | | | | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | Multi-touch | | | | | - | | | | | 3.29 lb / 1.49 kg | | | | | - | | | | | 3.64 lb / 1.65 kg | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Case material | | | | | Display cover: | | | | | Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); | | | | | | | | | | | | | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Bottom: | | | | | Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Max battery life ¹⁰ | Models | | | | | No + 3-cell | | | | | 3-cell + 3-cell | | | | | 3-cell + 6-cell 48Wh | | | | | 3-cell + 6-cell 72Wh | | | | | | | | | |
| | | | | | | AC adapter | 45W AC adapter | | | | | Battery life | | | | | 5.2 hr | | | | | 10.7 hr | | | | | 16.0 hr | | | | | 21.4 hr | | | | |
| | | | | | | Preload | Win8.1 / 10 DG Win7: | | | | | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Win8.1 64: | | | | | Windows 8.1 64-bit | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Win8.1 P64: | | | | | Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Win10 P64: | | | | | Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(WV2-3) © Lenovo

ThinkPad X250 20CL (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Fingerprint reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|--------------------|-------------------------|----------------------|------------|----------------------|--------|----------------|
| 20CL001CUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 01/15 |
| 20CL001EUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win8.1 P64 | 3-onsite | Yes | 01/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|-------------------|--|------------|----------------|---------------------|-------|--------------------------------|--|---|-------------------|----------------------|----------------------|-----------------|
| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | No + 3-cell | 3-cell + 3-cell | No + 6-cell | 3-cell + 6-cell |
| | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | Non-touch | 2.88 lb / 1.31 kg | 3.13 lb / 1.42 kg | 3.23 lb / 1.47 kg | 3.48 lb / 1.58 kg | |
| | i3-5010U | | 2.1 GHz | - | 3MB | | Multi-touch | - | 3.29 lb / 1.49 kg | - | 3.64 lb / 1.65 kg | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | Case material | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Smart card reader | Optional: Smart card reader | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| Optical | None | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Max battery life ¹⁰ | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | |
| | | | | | | Battery life | 5.2 hr 10.7 hr 16.0 hr 21.4 hr | | | | | |
| | | | | | | AC adapter | 45W AC adapter | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Preload | Win8.1 / 10 DG Win7: | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | |
| | | | | | | | Win8.1 64: | Windows 8.1 64-bit | | | | |
| | | | | | | | Win8.1 P64: | Windows 8.1 Pro 64-bit | | | | |
| | | | | | | | Win10 P64: | Windows 10 Pro 64 | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | |

See footnotes for more detailed information

(WV2-4) © Lenovo

ThinkPad X250 20CL (Onsite) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | M.2 SSD | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|---------------|-------------|----------------|---------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|-----------|----------------------|--------|----------------|
| 20CL00BKUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BLUS | i5-5200U | No | HD 5500 | 4GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BSUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BUUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" FHD IPS | MT | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BVUS | i7-5600U | vPro | HD 5500 | 16GBx1 | 12.5" FHD IPS | MT | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BJUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BMUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BNUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BPUS | i5-5200U | No | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BQUS | i7-5600U | vPro | HD 5500 | 16GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BRUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BTUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 12.5" HD IPS | No | 256G SSD Opal2 | None | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BWUS | i7-5600U | vPro | HD 5500 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20CL00BXUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 16GB | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 P64 | 3-onsite | Yes | 09/15 |

• For detailed platform specifications, please see [ThinkPad X250 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|------------|----------------|---------------------|-------|--------------------------------|---|-----------------------------|--|--|--|---|--|--|--|--|------------------------|--|--|--|--|----------------------|--|--|--|--|----------------------|--|--|--|--|
| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | Dimensions ³ | 12.5" (WxDxH): 12.0" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm 12.5" Touch (WxDxH): 12.0" x 8.21" x 0.85"; 305.5mm x 208.5mm x 21.5mm | | | | | | | | | | | | | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-4300U | 2 | 1.9 GHz | 2.9 GHz | 3MB | DDR3L-1600 | No + 3-cell | | | | | 3-cell + 3-cell | | | | | No + 6-cell | | | | | 3-cell + 6-cell | | | | | | | | | |
| | i3-5010U | | 2.1 GHz | - | 3MB | | Non-touch | | | | | 2.88 lb / 1.31 kg | | | | | 3.13 lb / 1.42 kg | | | | | 3.23 lb / 1.47 kg | | | | | 3.48 lb / 1.58 kg | | | | |
| | i5-5200U | | 2.2 GHz | 2.7 GHz | 3MB | | Multi-touch | | | | | - | | | | | 3.29 lb / 1.49 kg | | | | | - | | | | | 3.64 lb / 1.65 kg | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Case material | | | | | | | | | | | | | | | | | | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Display cover: Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); Bottom: Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor | | | | | | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, one 204-pin SO-DIMM socket | | | | | Ports | Two USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 400 nits, 700:1 contrast ratio, IPS | | | | | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 or 360 nits | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1.5W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD (opt) | M.2 Solid State Drive (SSD), via M.2 card slot | | | | | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I218-V (Non-vPro model) or I218-LM (vPro model) | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 11b/g/n+BT: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 card 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Fingerprint reader | Optional: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradeable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Max battery life ¹⁰ | Models | | | | | No + 3-cell | | | | | 3-cell + 3-cell | | | | | 3-cell + 6-cell 48Wh | | | | | 3-cell + 6-cell 72Wh | | | | |
| | | | | | | Battery life | 5.2 hr | | | | | 10.7 hr | | | | | 16.0 hr | | | | | 21.4 hr | | | | | | | | | |
| | | | | | | AC adapter | 45W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | Preload | Win8.1 / 10 DG Win7: | | | | | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Win8.1 64: | | | | | Windows 8.1 64-bit | | | | | Windows 8.1 Pro 64-bit | | | | | Windows 10 Pro 64 | | | | | | | | | |
| | | | | | | | Win8.1 P64: | | | | | Windows 8.1 Pro 64-bit | | | | | Windows 10 Pro 64 | | | | | | | | | | | | | | |
| | | | | | | | Win10 P64: | | | | | Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | |
| | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260



Lenovo ThinkPad X260

ThinkPad X260 Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | Smart card reader Media reader Ports WiGig dock (opt) Monitor cable | Optional: Smart card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector WiGig dock, mutually exclusive with WWAN Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | |
|--|---|-------------------|----------------------|----------------------|----------------------|-------|--------------|--|---|--------------------|-------------|-----------------|----------------------|----------------------|------------------|------|-------|---------|-------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | Processor Graphics | | | | | | | | | |
| | i3-6100U | 2 | 4 | 2.3 GHz | - | 3MB | DDR4-2133 | Intel HD graphics 520 | | | | | | | | | | | |
| | i5-6200U | | | 2.3 GHz | 2.8 GHz | 3MB | | | | | | | | | | | | | |
| | i5-6300U | | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | |
| | i7-6500U | | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | |
| | i7-6600U | | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor, supports external digital monitor via HDMI or Mini DisplayPort; supports three independent displays; Max resolution: 4096x2304@60Hz (DisplayPort via Mini DisplayPort cable); 4096x2160@24Hz (HDMI) | | | | | | | Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket | | | | | | | Security Security chip ThinkEngine | Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle | | | | | | | vPro (optional) Fingerprint reader | Optional: Intel vPro Technology Optional: Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | |
| Multi-touch | None | | | | | | | Internal battery External battery Max battery life ¹⁰ (MobileMark® 2014) | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, Shock Mounted Hard Drive, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>6 hr</td> <td>12 hr</td> <td>18.5 hr</td> <td>25 hr</td> </tr> </tbody> </table> | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Max battery life | 6 hr | 12 hr | 18.5 hr | 25 hr |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | |
| Max battery life | 6 hr | 12 hr | 18.5 hr | 25 hr | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | AC adapter | 45W AC adapter | | | | | | | | | | |
| Ethernet | Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville) vPro model: Intel Ethernet Connection I219-LM (Jacksonville) | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo Companion Lenovo Setting ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update Adobe® Reader® Microsoft® Office preloaded; purchase a product key to activate McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | |
| WLAN ⁴ | One of the following, configurable by model (WiGig is mutually exclusive with WWAN): <ul style="list-style-type: none"> 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | Limited warranty ¹² | One of the following, configurable by model: <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | |
| WWAN (optional) | One of the following, configurable by model (mutually exclusive with WiGig): <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | Environment | EPPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | | | | | | |
| Dimensions ³ Weight ² | WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm | | | | | | | | | | | | | | | | | | |
| | Models | No + 3-cell | 3-cell + 3-cell | 3 + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | |
| | Weight | 2.94 lb / 1.34 kg | 3.18 lb / 1.44 kg | 3.51 lb / 1.59 kg | 3.58 lb / 1.62 kg | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | | | | | | | | | | | | | | | | | | |

ThinkPad X260 20F6 (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Smart card reader | Camera | Backlit keyboard | Finger-print reader | Battery cells (int+ext) | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------|--------------|-------------|----------------|------------------|------|----------|-------------------|--------|------------------|---------------------|-------------------------|----------------------|---------------|----------------------|--------|----------------|
| 20F6005FUS | i3-6100U | No | HD 520 | 4GBx1 | 12.5" HD IPS | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005EUS | i5-6200U | No | HD 520 | 4GBx1 | 12.5" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005GUS | i5-6300U | vPro | HD 520 | 8GBx1 | 12.5" HD | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005HUS | i5-6200U | No | HD 520 | 8GBx1 | 12.5" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005JUS | i7-6600U | vPro | HD 520 | 8GBx1 | 12.5" HD | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005KUS | i7-6600U | vPro | HD 520 | 8GBx1 | 12.5" HD | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005LUS | i5-6300U | vPro | HD 520 | 8GBx1 | 12.5" HD | No | 128G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005MUS | i7-6600U | vPro | HD 520 | 16GBx1 | 12.5" HD | No | 512G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005NUS | i5-6300U | vPro | HD 520 | 8GBx1 | 12.5" HD | No | 192G SSD | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005QUS | i3-6100U | No | HD 520 | 4GBx1 | 12.5" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005RUS | i7-6600U | vPro | HD 520 | 8GBx1 | 12.5" HD | No | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |
| 20F6005SUS | i5-6300U | vPro | HD 520 | 8GBx1 | 12.5" HD | No | 500G 7200 | 8260 ac+BT | Upg | None | None | 720p | Backlit | Finger | 3+3 | 45W | Win10 DG Win7 | 3-depot | No | 01/16 |

• For detailed platform specifications, please see [ThinkPad X260 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions ³ Weight ² | WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|--|----------------------|---------------------|-------|--------------|-------------|-----------------|----------------------|----------------------|------------------|-----------|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|----------|---------|---------|-----|--|--------|-------------|-----------------|-----------------|----------------------|--------|-------------------|-------------------|-------------------|-------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i3-6100U</td> <td rowspan="5">2</td> <td>2.3 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="5">DDR4-2133</td> </tr> <tr> <td>i5-6200U</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i3-6100U | 2 | 2.3 GHz | - | 3MB | DDR4-2133 | i5-6200U | 2.3 GHz | 2.8 GHz | 3MB | i5-6300U | 2.4 GHz | 3.0 GHz | 3MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3 + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.94 lb / 1.34 kg</td> <td>3.18 lb / 1.44 kg</td> <td>3.51 lb / 1.59 kg</td> <td>3.58 lb / 1.62 kg</td> </tr> </tbody> </table> | Models | No + 3-cell | 3-cell + 3-cell | 3 + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Weight | 2.94 lb / 1.34 kg | 3.18 lb / 1.44 kg | 3.51 lb / 1.59 kg | 3.58 lb / 1.62 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-6100U | 2 | 2.3 GHz | - | 3MB | DDR4-2133 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | | 2.3 GHz | 2.8 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3 + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 2.94 lb / 1.34 kg | 3.18 lb / 1.44 kg | 3.51 lb / 1.59 kg | 3.58 lb / 1.62 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | Glass-Fiber Reinforced Plastic | Smart card reader | Optional: Smart card reader | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | Ports | Three USB 3.0 (one Always On), HDMI, MiniDP, Ethernet (RJ-45), Dock connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WiGig dock (opt) | WiGig dock, mutually exclusive with WWAN | Monitor cable | Optional: HDMI to VGA Monitor Cable or Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor | Camera (optional) | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Realtek® ALC3245 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / 2133MHz DDR4, one DDR4 SO-DIMM socket | Keyboard | 6-row, spill-resistant, multimedia Fn keys, optional LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 12.5" (317.5mm) HD (1366x768), 200 nits, 300:1 contrast ratio Some: 12.5" (317.5mm) HD (1366x768), 300 nits, 700:1 contrast ratio, IPS Some: 12.5" (317.5mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS | UltraNav™ | TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high Some: SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s, 2.5" wide, 7mm high Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, APS Some: SSHD with 8GB NAND flash memory | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel Ethernet Connection I219-V (Non-vPro model) or I219-LM (vPro model) | Fingerprint reader | Optional: Swipe style fingerprint reader on the keyboard bezel | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | BCM ac+BT: 11ac+BT, Broadcom BCM4356, 2x2, M.2 card 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | Internal battery | Optional: Integrated Li-Ion or Li-Polymer 3-cell (23Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | External battery | Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | Max battery life ¹⁰ (MobileMark® 2014) | <table border="1"> <thead> <tr> <th>Models</th> <th>No + 3-cell</th> <th>3-cell + 3-cell</th> <th>3-cell + 6-cell 48Wh</th> <th>3-cell + 6-cell 72Wh</th> </tr> </thead> <tbody> <tr> <td>Max battery life</td> <td>6 hr</td> <td>12 hr</td> <td>18.5 hr</td> <td>25 hr</td> </tr> </tbody> </table> | | | | Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | Max battery life | 6 hr | 12 hr | 18.5 hr | 25 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | No + 3-cell | 3-cell + 3-cell | 3-cell + 6-cell 48Wh | 3-cell + 6-cell 72Wh | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max battery life | 6 hr | 12 hr | 18.5 hr | 25 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | AC adapter | 45W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)



Lenovo ThinkPad X1 Carbon (2nd Gen)

ThinkPad X1 Carbon (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|--------------------------------|---|------------------|-------------------------|------------------|-----------------------------|-------------------|--------------|------------------------|--------------------------------|---|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Intel Wireless-N 7260, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card | |
| | i5-4200U | 2 | 4 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 4400 | WWAN (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) | |
| | i5-4210U | | | 1.7 GHz | 2.7 GHz | 3MB | | | | | |
| | i5-4300U | | | 1.9 GHz | 2.9 GHz | 3MB | | | | | |
| | i7-4600U | | | 2.1 GHz | 3.3 GHz | 4MB | | | | | |
| Memory | 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | | | | SIM card (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider | |
| Optical Storage | None M.2 Solid State Drive (SSD) | | | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS , 170° viewing angle | | | | | | | | Ethernet | Ethernet Extension cable | |
| Multi-touch | <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | | | | NFC | <i>Optional:</i> Near Field Communication | |
| Camera | HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole, reset switch | |
| Light sensor | Ambient Light Sensor (Windows 8.1 64-bit only) | | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | |
| Graphics | Intel HD Graphics 4400 or 5000 in processor, external digital monitor support via Mini DisplayPort or HDMI™ (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable); supports three independent displays; <i>Max resolution:</i> 3840x2160 (Mini DisplayPort)@30Hz; 2880x1620 (HDMI)@60Hz | | | | | | | | vPro (optional) | Intel vPro Technology | |
| Keyboard | Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit | | | | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | |
| UltraNav™ | TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | |
| ThinkLight™ | None | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update PC Device Stage Adobe® Reader® Nitro Pro Evernote® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) | |
| Dimensions ³ | WQHD (WxDxH): | | 13.03" x 8.92" x 0.70"; | | 331.0mm x 226.5mm x 17.72mm | | | | | <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center Lenovo Support Lenovo Companion ThinkVantage System Update Hightail - Metro PC Device Stage AccuWeather Amazon Kindle Nitro Pro Rara Streaming Norton Studio Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions) | |
| | HD+ (WxDxH): | | 13.03" x 8.93" x 0.71"; | | 331.0mm x 226.8mm x 18.16mm | | | | | | |
| | WQHD Touch (WxDxH): | | 13.03" x 8.94" x 0.73"; | | 331.0mm x 227.1mm x 18.46mm | | | | | | |
| Weight ² | Models | WQHD | | HD+ | | WQHD Touch | | | | | |
| | Weight | 2.82 lb / 1.28kg | | 2.96 lb / 1.34kg | | 3.15 lb / 1.43kg | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | |
| Battery type | Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery | | | | | | | | | | |
| Max battery life ¹⁰ | Integrated battery: up to 9 hr | | | | | | | | | | |
| AC Adapter | 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter | | | | | | | | | | |
| RapidCharge | AC Adapter | 45W | | 65W Slim | | 65W | | | | | |
| | Charge to 80% | 1.0hr | | 50min | | 50min | | | | | |
| | Charge to 100% | 2.3hr | | 2.1hr | | 2.1hr | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | |
| Smart card reader | None | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant | |
| Media reader | None | | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only) | | | | | | | | | | |
| Monitor Cable | <i>Some:</i> Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | |

ThinkPad X1 Carbon (2nd Gen) 20A7 (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|-----------------|------------------|------|----------|---------------|--------|------------------|--------------------|------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20A7002FUS | i5-4200U | No | HD 4400 | 4GBx1 | 14" HD+ | No | 128G SSD | 7260 b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7002HUS | i5-4200U | No | HD 4400 | 4GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7007GUS | i5-4210U | No | HD 4400 | 4GBx1 | 14" HD+ | No | 128G SSD | 7260 b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 05/14 |
| 20A7002JUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7002NUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7002YUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A70031US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7002LUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A70033US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A70094US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 07/14 |
| 20A7002QUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7002SUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7002UUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A7002WUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/14 |
| 20A70096US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 07/14 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|--|-------------------------|-----------------------------|---------------------|-------|--------------------------------|---|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard | Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | UltraNav™ | TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | |
| | i5-4210U | | 1.7 GHz | 2.7 GHz | 3MB | | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | None | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | None | | | | |
| Memory | 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | Ports | Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only) | | | | | |
| Optical Storage | None M.2 Solid State Drive (SSD) | | | | | Monitor Cable | Some: Mini DisplayPort to VGA Monitor Cable | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio | | | | | WLAN ⁴ | 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| Multi-touch | Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Camera | Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Light sensor | HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Graphics | Intel HD Graphics 4400 or 5000 | | | | | Ethernet | Ethernet Extension cable Optional: Near Field Communication | | | | | |
| Dimensions ³ | WQHD (WxDxH): | 13.03" x 8.92" x 0.70"; | 331.0mm x 226.5mm x 17.72mm | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | |
| | HD+ (WxDxH): | 13.03" x 8.93" x 0.71"; | 331.0mm x 226.8mm x 18.16mm | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | |
| | WQHD Touch (WxDxH): | 13.03" x 8.94" x 0.73"; | 331.0mm x 227.1mm x 18.46mm | | | vPro (optional) | Intel vPro Technology | | | | | |
| Weight ² | Models | WQHD | HD+ | WQHD Touch | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| | Weight | 2.82 lb / 1.28kg | 2.96 lb / 1.34kg | 3.15 lb / 1.43kg | | Preload | Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |
| Battery type | Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery | | | | | | | | | | | |
| Max battery life ¹⁰ | Integrated battery: up to 9 hr | | | | | | | | | | | |
| AC Adapter | 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter | | | | | | | | | | | |
| RapidCharge | AC Adapter | 45W | 65W Slim | 65W | | | | | | | | |
| | Charge to 80% | 1.0hr | 50min | 50min | | | | | | | | |
| | Charge to 100% | 2.3hr | 2.1hr | 2.1hr | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |

See footnotes for more detailed information

(MQ1-1) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A7 (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (sol-dered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------------------|--------------|-------------|-----------------|------------------|--------|----------|---------------|--------|-------------------|---------------------|------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20A7006DUS | i5-4200U | No | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 128G SSD | 7260 ac+BT | None | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 1-depot | No | 02/14 |
| 20A7006TUS | i5-4200U | No | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 1-depot | No | 03/14 |
| 20A7007DUS | i5-4210U | No | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 1-depot | No | 05/14 |
| 20A7006RUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 1-depot | No | 03/14 |
| 20A7003BUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A7003DUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A7003EUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A7003GUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A70035US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A7003JUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A70037US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A70039US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A7003LUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A7003PUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 01/14 |
| 20A7006VUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 03/14 |
| 20A7006WUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 512G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | No | 07/14 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|--------------------------------|--|-------------------------|-----------------------------|---------------------|-------------------------|-----------------------------|---|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard | Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | UltraNav™ | TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | |
| | i5-4210U | | 1.7 GHz | 2.7 GHz | 3MB | | Chipset | Intel SoC (System on Chip) platform | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | None | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | None | | | | |
| Memory | 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | Ports | Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only) | | | | | |
| Optical Storage | None M.2 Solid State Drive (SSD) | | | | | Monitor Cable | Some: Mini DisplayPort to VGA Monitor Cable | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio | | | | | WLAN ⁴ | 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | |
| Multi-touch | Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | |
| Camera | Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | |
| Light sensor | HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | |
| Graphics | Intel HD Graphics 4400 or 5000 | | | | | Ethernet | Ethernet Extension cable | | | | | |
| Dimensions ³ | WQHD (WxDxH): | 13.03" x 8.92" x 0.70"; | 331.0mm x 226.5mm x 17.72mm | HD+ (WxDxH): | 13.03" x 8.93" x 0.71"; | 331.0mm x 226.8mm x 18.16mm | NFC | Optional: Near Field Communication | | | | |
| Weight ² | WQHD Touch (WxDxH): | 13.03" x 8.94" x 0.73"; | 331.0mm x 227.1mm x 18.46mm | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | |
| | Models | WQHD | HD+ | WQHD Touch | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | |
| | Weight | 2.82 lb / 1.28kg | 2.96 lb / 1.34kg | 3.15 lb / 1.43kg | | | vPro (optional) | Intel vPro Technology | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Battery type | Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery | | | | | Preload | Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit | | | | | |
| Max battery life ¹⁰ | Integrated battery: up to 9 hr | | | | | | Win8.1 P64: Windows 8.1 64-bit | | | | | |
| AC Adapter | 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter | | | | | | Win8.1 P64: Windows 8.1 Pro 64-bit | | | | | |
| RapidCharge | AC Adapter | 45W | 65W Slim | 65W | | | Limited warranty ¹² 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | |
| | Charge to 80% | 1.0hr | 50min | 50min | | | | | | | | |
| | Charge to 100% | 2.3hr | 2.1hr | 2.1hr | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |

See footnotes for more detailed information

(MQ1-2) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitorable | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------------------|---------|-----------------|-----------------|------------------|--------|----------|-------------|---------|------------------|--------------------|---------|---------------|----------------------|---------|----------------------|--------|----------------|
| 20A8001CUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 180G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A8001PUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A8001RUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A8001TUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A80021US | i5-4300U | vPro | HD 4400 | 4GBx1 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A80022US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A80023US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A80024US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 128G SSD | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 | |
| 20A8002CUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A8002PUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A8002UUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A80031US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A80036US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A80041US | i5-4300U | vPro | HD 4400 | 4GBx1 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A80047US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A8007XUS | i5-4300U | vPro | HD 4400 | 4GBx1 14" HD+ | No | 128G SSD | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 04/14 | |
| 20A80085US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | MT | 180G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 04/14 | |
| 20A80088US | i5-4300U | vPro | HD 4400 | 4GBx1 14" WQHD IPS | No | 180G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 04/14 | |
| 20A8002FUS | i5-4300U | vPro | HD 4400 | 8GBx1 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A8002GUS | i5-4300U | vPro | HD 4400 | 8GBx1 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A8002KUS | i5-4300U | vPro | HD 4400 | 8GBx1 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |
| 20A8002WUS | i5-4300U | vPro | HD 4400 | 8GBx1 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 | |

* For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

| | | | | | | | |
|--------------------------------|--|------------------|-------------------------|-----------------------------|-------|--------------------------------|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard | Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | UltraNav™ |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch |
| | i5-4210U | | 1.7 GHz | 2.7 GHz | 3MB | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | |
| Memory | 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | ThinkLight™ | None |
| Optical Storage | None M.2 Solid State Drive (SSD) | | | | | Chipset | Intel SoC (System on Chip) platform |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio | | | | | Smart card reader | None |
| Multi-touch | <i>Some:</i> 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS | | | | | Media reader | None |
| Camera | <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Ports | Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only) |
| Light sensor | HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input | | | | | Monitor Cable | <i>Some:</i> Mini DisplayPort to VGA Monitor Cable |
| Graphics | Intel HD Graphics 4400 or 5000 | | | | | WLAN ⁴ | <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card |
| Dimensions ³ | <i>WQHD (WxDxH):</i> | | 13.03" x 8.92" x 0.70"; | 331.0mm x 226.5mm x 17.72mm | | WWAN (optional) | <i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+ / EVDO/GSM/GPRS/EDGE, GPS |
| | <i>HD+ (WxDxH):</i> | | 13.03" x 8.93" x 0.71"; | 331.0mm x 226.8mm x 18.16mm | | SIM card (optional) | <i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider |
| | <i>WQHD Touch (WxDxH):</i> | | 13.03" x 8.94" x 0.73"; | 331.0mm x 227.1mm x 18.46mm | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter |
| Weight ² | Models | WQHD | HD+ | WQHD Touch | | Ethernet | Ethernet Extension cable <i>Optional:</i> Near Field Communication |
| | Weight | 2.82 lb / 1.28kg | 2.96 lb / 1.34kg | 3.15 lb / 1.43kg | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch |
| Case material | <i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant |
| Battery type | Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery | | | | | vPro (optional) | Intel vPro Technology |
| Max battery life ¹⁰ | <i>Integrated battery:</i> up to 9 hr | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor |
| AC Adapter | 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter | | | | | Preload | <i>Win8.1 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Win8.1 64:</i> Windows 8.1 64-bit <i>Win8.1 P64:</i> Windows 8.1 Pro 64-bit |
| RapidCharge | AC Adapter | 45W | 65W Slim | 65W | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite |
| | Charge to 80% | 1.0hr | 50min | 50min | | | |
| | Charge to 100% | 2.3hr | 2.1hr | 2.1hr | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | |

See footnotes for more detailed information

(MQ1-3) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Windows 8) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Finger-print reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|-----------------|------------------|--------|----------|---------------|--------|-------------------|---------------------|------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20A80032US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A80033US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A80049US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A8004BUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A8004EUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A8001FUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 |
| 20A8001GUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 |
| 20A8001NUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 |
| 20A8001QUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 |
| 20A8001SUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-depot | Yes | 01/14 |
| 20A8002NUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A8002RUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A8002TUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A80037US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A80045US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A80048US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A8004AUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/14 |
| 20A80083US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 04/14 |
| 20A80086US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 04/14 |
| 20A80089US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-depot | Yes | 04/14 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|------------------|-------------------------|---------------------|-----------------------------|--------------|--------------------------------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | | Keyboard | Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit | | | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | UltraNav™ | TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch | | | | | | | | | | | | | | |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | ThinkLight™ | None | | | | | | | | | | | | | | |
| | i5-4210U | | 1.7 GHz | 2.7 GHz | 3MB | | Chipset | Intel SoC (System on Chip) platform | | | | | | | | | | | | | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | Smart card reader | None | | | | | | | | | | | | | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | Media reader | None | | | | | | | | | | | | | | |
| | | | | | | | | Ports | Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only) | | | | | | | | | | | | | |
| Memory | 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | | Monitor Cable | Some: Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | | | | | |
| Optical Storage | None M.2 Solid State Drive (SSD) | | | | | | WLAN ⁴ | 7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card | | | | | | | | | | | | | | |
| Widescreen display | Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS | | | | | | WWAN (optional) | Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | | | | | | | | | | | | | | |
| Multi-touch | Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | | SIM card (optional) | AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider | | | | | | | | | | | | | | |
| Camera | HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input | | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | |
| Light sensor | Ambient Light Sensor (Windows 8.1 64-bit only) | | | | | | Ethernet | Ethernet Extension cable Optional: Near Field Communication | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 4400 or 5000 | | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | | | | | | | | | |
| Dimensions ³ | WQHD (WxDxH): | | 13.03" x 8.92" x 0.70"; | | 331.0mm x 226.5mm x 17.72mm | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | |
| | HD+ (WxDxH): | | 13.03" x 8.93" x 0.71"; | | 331.0mm x 226.8mm x 18.16mm | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | |
| | WQHD Touch (WxDxH): | | 13.03" x 8.94" x 0.73"; | | 331.0mm x 227.1mm x 18.46mm | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | |
| Weight ² | Models | WQHD | HD+ | WQHD Touch | | | Preload | Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | |
| | Weight | 2.82 lb / 1.28kg | 2.96 lb / 1.34kg | 3.15 lb / 1.43kg | | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | | | | | | | | | | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | |
| Battery type | Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery | | | | | | | | | | | | | | | | | | | | | |
| Max battery life ¹⁰ | Integrated battery: up to 9 hr | | | | | | | | | | | | | | | | | | | | | |
| AC Adapter | 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter | | | | | | | | | | | | | | | | | | | | | |
| RapidCharge | AC Adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | |
| | Charge to 80% | 1.0hr | 50min | 50min | | | | | | | | | | | | | | | | | | |
| | Charge to 100% | 2.3hr | 2.1hr | 2.1hr | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad X1 Carbon (2nd Gen) 20A8 (Windows 8) - Onsite

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (sol-dered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit keyboard | Fingerprint reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|--------------------|--------------|-------------|-----------------|------------------|--------|----------|---------------|--------|------------------|--------------------|------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20A8001DUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001EUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001HUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 128G SSD | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001KUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001VUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001WUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 128G SSD | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001XUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A80020US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8002DUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002EUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002QUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002SUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002XUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8004CUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8004DUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8007YUS | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 04/14 |
| 20A80082US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 04/14 |
| 20A80084US | i5-4300U | vPro | HD 4400 | 4GBx1 | 14" HD+ | No | 128G SSD | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 04/14 |
| 20A8002HUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002LUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002YUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A80030US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |

* For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

| | | | | | | | |
|--------------------------------|--|------------------|---|---------------------|--------------------------------|--|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard | Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | UltraNav™ |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch |
| | i5-4210U | | 1.7 GHz | 2.7 GHz | 3MB | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | |
| Memory | 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | ThinkLight™ | None |
| Optical Storage | None M.2 Solid State Drive (SSD) | | | | | Chipset | Intel SoC (System on Chip) platform |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio | | | | | Smart card reader | None |
| Multi-touch | <i>Some:</i> 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS | | | | | Media reader | None |
| Camera | <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Ports | Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only) |
| Light sensor | HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input | | | | | Monitor Cable | <i>Some:</i> Mini DisplayPort to VGA Monitor Cable |
| Graphics | Intel HD Graphics 4400 or 5000 | | | | | WLAN ⁴ | <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card |
| Dimensions ³ | <i>WQHD (WxDxH):</i> | | 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm | | WWAN (optional) | <i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS | |
| | <i>HD+ (WxDxH):</i> | | 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm | | SIM card (optional) | <i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider | |
| | <i>WQHD Touch (WxDxH):</i> | | 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | |
| Weight ² | Models | WQHD | HD+ | WQHD Touch | Ethernet | Ethernet Extension cable | |
| | Weight | 2.82 lb / 1.28kg | 2.96 lb / 1.34kg | 3.15 lb / 1.43kg | NFC | <i>Optional:</i> Near Field Communication | |
| Case material | <i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch |
| Battery type | Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant |
| Max battery life ¹⁰ | <i>Integrated battery:</i> up to 9 hr | | | | | vPro (optional) | Intel vPro Technology |
| AC Adapter | 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor |
| RapidCharge | AC Adapter | 45W | 65W Slim | 65W | Preload | <i>Win8.1 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Win8.1 64:</i> Windows 8.1 64-bit <i>Win8.1 P64:</i> Windows 8.1 Pro 64-bit | |
| | Charge to 80% | 1.0hr | 50min | 50min | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite | |
| | Charge to 100% | 2.3hr | 2.1hr | 2.1hr | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | |

See footnotes for more detailed information

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ThinkPad X1 Carbon (2nd Gen) 20A8 (Windows 8) - Onsite - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Fingerprint reader | NFC | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|-----------------|------------------|--------|----------|---------------|--------|-------------------|--------------------|------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20A80035US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A80043US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A80044US | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8004FUS | i5-4300U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8001JUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001LUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001MUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001UUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8001YUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 180G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 64 | 3-onsite | Yes | 01/14 |
| 20A8002JUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002MUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8002VUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A80034US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 ac+BT | EM7355 | Select | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A80042US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A80046US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A8004GUS | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 240G SSD Opal | 7260 ac+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/14 |
| 20A80080US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" HD+ | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 04/14 |
| 20A80081US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 04/14 |
| 20A80087US | i7-4600U | vPro | HD 4400 | 8GBx1 | 14" WQHD IPS | No | 256G SSD eDrive | 7260 a/b/g/n+BT | Upg | None | None | 720p | Backlit | Finger | None | 8(45wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 04/14 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

| | | | | | | | |
|--------------------------------|--|------------------|-------------------------|---------------------|-----------------------------|--------------------------------|--|
| Processor | 4th Generation Intel® Core™ i5 / i7 Processor | | | | | Keyboard | Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | UltraNav™ |
| | i5-4200U | 2 | 1.6 GHz | 2.6 GHz | 3MB | DDR3L-1600 | TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch |
| | i5-4210U | | 1.7 GHz | 2.7 GHz | 3MB | | |
| | i5-4300U | | 1.9 GHz | 2.9 GHz | 3MB | | |
| | i7-4600U | | 2.1 GHz | 3.3 GHz | 4MB | | |
| Memory | 4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets | | | | | ThinkLight™ | None |
| Optical Storage | None M.2 Solid State Drive (SSD) | | | | | Chipset | Intel SoC (System on Chip) platform |
| Widescreen display | <i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio | | | | | Smart card reader | None |
| Multi-touch | <i>Some:</i> 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS | | | | | Media reader | None |
| Camera | <i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Ports | Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only) |
| Light sensor | HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input | | | | | Monitor Cable | <i>Some:</i> Mini DisplayPort to VGA Monitor Cable |
| Graphics | Intel HD Graphics 4400 or 5000 | | | | | WLAN ⁴ | <i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card |
| Dimensions ³ | <i>WQHD (WxDxH):</i> | | 13.03" x 8.92" x 0.70"; | | 331.0mm x 226.5mm x 17.72mm | | WWAN (optional) |
| | <i>HD+ (WxDxH):</i> | | 13.03" x 8.93" x 0.71"; | | 331.0mm x 226.8mm x 18.16mm | | <i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS |
| | <i>WQHD Touch (WxDxH):</i> | | 13.03" x 8.94" x 0.73"; | | 331.0mm x 227.1mm x 18.46mm | | SIM card (optional) |
| Weight ² | Models | WQHD | HD+ | WQHD Touch | | | |
| | Weight | 2.82 lb / 1.28kg | 2.96 lb / 1.34kg | 3.15 lb / 1.43kg | | | |
| Case material | <i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum | | | | | Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter |
| Battery type | Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery | | | | | Ethernet | Ethernet Extension cable |
| Max battery life ¹⁰ | <i>Integrated battery:</i> up to 9 hr | | | | | NFC | <i>Optional:</i> Near Field Communication |
| AC Adapter | 45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch |
| RapidCharge | AC Adapter | 45W | 65W Slim | 65W | | | |
| | Charge to 80% | 1.0hr | 50min | 50min | | | |
| | Charge to 100% | 2.3hr | 2.1hr | 2.1hr | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant |
| | | | | | | vPro (optional) | Intel vPro Technology |
| | | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor |
| | | | | | | Preload | <i>Win8.1 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Win8.1 64:</i> Windows 8.1 64-bit <i>Win8.1 P64:</i> Windows 8.1 Pro 64-bit |
| | | | | | | Limited warranty ¹² | 1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite |

See footnotes for more detailed information

(MQ1-6) © Lenovo



Lenovo® ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)



Lenovo ThinkPad X1 Carbon (3rd Gen)

ThinkPad X1 Carbon (3rd Gen) Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Media reader | None | | | | | | | | | | | | |
|-------------------------|--|---------------------|--------------------|----------------|---------------------|-------|--------------|------------------------|--------------------------------|---|------------|------------|----------|---------------------|---------------------|--------------------|---------------|-------------------------------------|----------------|-------|-------|-------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | | | | | | | | | | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 5500 | Monitor cable | <i>Optional:</i> Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | | | |
| | i5-5300U | | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | |
| | i7-5500U | | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | |
| Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | | | | | | | | | | | | | | | | | | |
| Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 in processor, external digital monitor support via Mini DisplayPort or HDMI™ (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable); supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort) @60Hz; 4096x2304 (HDMI) @24Hz | | | | | | | | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole, reset switch | | | | | | | | | | | | |
| Display | <i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS, 170° viewing angle | | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | |
| Optical | None | | | | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | | | | | | | | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.9 hr</td> <td>9.9 hr</td> <td>9.9 hr</td> </tr> </tbody> </table> | Models | FHD | WQHD | WQHD Touch | Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card | | | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | |
| WWAN (optional) | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>1.1hr</td> <td>55min</td> <td>55min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.5hr</td> <td>2.3hr</td> <td>2.3hr</td> </tr> </tbody> </table> | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | 1.1hr | 55min | 55min | Charge to 100% | 2.5hr | 2.3hr | 2.3hr |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | 1.1hr | 55min | 55min | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | 2.5hr | 2.3hr | 2.3hr | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | Preload | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> Lenovo Solution Center Lenovo SHAREit Lenovo REACHit Lenovo Companion Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model) | | | | | | | | | | | | |
| Dimensions ³ | WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | | | | Limited warranty ¹² | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | |
| Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.996 lb / 1.359 kg</td> <td>2.877 lb / 1.305 kg</td> <td>3.175 lb / 1.44 kg</td> </tr> </tbody> </table> | | | | | | | | Models | FHD | WQHD | WQHD Touch | Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | Mil-Spec test | MIL-STD-810G military certification | | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | |
| Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | | | | | | | | | | | | | | | | | |
| Case material | <i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum | | | | | | | | Environment | PEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant | | | | | | | | | | | | |

ThinkPad X1 Carbon (3rd Gen) 20BS (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|----------------|------------------|--------|----------|---------------|--------|-------------------|--------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20BS002WUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" FHD | No | 128G SSD | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20BS0034US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20BS002VUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS0037US | i5-5200U | No | HD 5500 | 4GBx1 | 14" FHD | No | 180G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS003AUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" FHD | No | 128G SSD | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS0033US | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS003CUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD | No | 180G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS002YUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS0032US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS0039US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS002TUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 360G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS002UUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS0031US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS003BUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS003DUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 01/15 |
| 20BS006SUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 128G SSD | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 05/15 |
| 20BS006TUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD PCIe | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 05/15 |
| 20BS006UUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 05/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ | WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | | | | | | | | | | |
|-------------------|---|---------------------|--------------------|---------------------|-------|--------------------------------|---|--|--|------------|--------|----------|------------|---------------|---------|---------------------|---------------------|--------------------|-------|-------|-------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.996 lb / 1.359 kg</td> <td>2.877 lb / 1.305 kg</td> <td>3.175 lb / 1.44 kg</td> </tr> </tbody> </table> | | | Models | FHD | WQHD | WQHD Touch | Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | |
| Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | | | | | | | | | | | | | | | | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | | | | | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys UltraNav™ TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | | | | | | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.9 hr</td> <td>9.9 hr</td> <td>9.9 hr</td> </tr> </tbody> </table> | | | Models | FHD | WQHD | WQHD Touch | Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | |
| Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | | | | | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>1.1hr</td> <td>55min</td> <td>55min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.5hr</td> <td>2.3hr</td> <td>2.3hr</td> </tr> </tbody> </table> | | | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | 1.1hr | 55min | 55min | Charge to 100% | 2.5hr | 2.3hr | 2.3hr |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | |
| Charge to 80% | 1.1hr | 55min | 55min | | | | | | | | | | | | | | | | | | |
| Charge to 100% | 2.5hr | 2.3hr | 2.3hr | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 P64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | | | | | | | | | | | | | |
| Media reader | None | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | | | | | | | | | | | | | | | | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective April 2015

(MQ2-1) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BS (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|----------------|------------------|------|----------|---------------|--------|-------------------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20BS009TUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 07/15 |
| 20BS009VUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" FHD | No | 128G SSD | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 07/15 |
| 20BS009WUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 07/15 |
| 20BS009UUS | i5-5200U | No | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 07/15 |
| 20BS00BGUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BS00BHUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BS00BKUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" FHD | No | 180G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 08/15 |
| 20BS00B9US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | MT | 256G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BS00B7US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | No | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 09/15 |
| 20BS00B8US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | No | 256G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 DG Win7 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|---|----------------|---------------------|----------|--------------|---------------|---------|---------|---------|----------------|------------|----------|---------|---------|-----|----------|---------|-------|-----|----------|---------|---------|-----|---------------------|--|--------|-----|------|------------|--------|---------------------|---------------------|--------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-5200U</td> <td rowspan="5">2</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td rowspan="5">DDR3L-1600</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-5500U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | i7-5500U | 2.4 GHz | 3 GHz | 4MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.996 lb / 1.359 kg</td> <td>2.877 lb / 1.305 kg</td> <td>3.175 lb / 1.44 kg</td> </tr> </tbody> </table> | Models | FHD | WQHD | WQHD Touch | Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 | Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.9 hr</td> <td>9.9 hr</td> <td>9.9 hr</td> </tr> </tbody> </table> | Models | FHD | WQHD | WQHD Touch | Battery life | 10.9 hr | 9.9 hr | 9.9 hr | AC adapter | | | | | | | | | | | | | | | | | | | | | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>1.1hr</td> <td>55min</td> <td>55min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.5hr</td> <td>2.3hr</td> <td>2.3hr</td> </tr> </tbody> </table> | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | 1.1hr | 55min | 55min | Charge to 100% | 2.5hr | 2.3hr | 2.3hr | Preload | | | | | | | | | | | | | | | | | | | |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | 1.1hr | 55min | 55min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | 2.5hr | 2.3hr | 2.3hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | None | | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad X1 Carbon (3rd Gen) 20BS (TopSeller) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|----------------|------------------|--------|----------|---------------|--------|-------------------|---------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20BS002XUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20BS0030US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BS0036US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BS003FUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BS0035US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BS0038US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BS003EUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BS003GUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ | WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|--|--------------------------------|---|----------------|---------------------|------------|--------------|----------|------------|---------------|---------|--------|------------|----------------|---------|---------|-------|----------|---------|-------|-----|----------|---------|---------|-----|---------------------|--|--|--|--------|-----|------|------------|--------|---------------------|---------------------|--------------------|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-5200U</td> <td rowspan="5">2</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td rowspan="5">DDR3L-1600</td> </tr> <tr> <td>i5-5300U</td> <td>2.3 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-5500U</td> <td>2.4 GHz</td> <td>3 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-5600U</td> <td>2.6 GHz</td> <td>3.2 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | i5-5300U | 2.3 GHz | 2.9 GHz | 3MB | i7-5500U | 2.4 GHz | 3 GHz | 4MB | i7-5600U | 2.6 GHz | 3.2 GHz | 4MB | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.996 lb / 1.359 kg</td> <td>2.877 lb / 1.305 kg</td> <td>3.175 lb / 1.44 kg</td> </tr> </tbody> </table> | | | Models | FHD | WQHD | WQHD Touch | Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 | Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.9 hr</td> <td>9.9 hr</td> <td>9.9 hr</td> </tr> </tbody> </table> | | | Models | FHD | WQHD | WQHD Touch | Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | | | | | | | | | | | | | | | | | | | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | None | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>1.1hr</td> <td>55min</td> <td>55min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.5hr</td> <td>2.3hr</td> <td>2.3hr</td> </tr> </tbody> </table> | | | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | 1.1hr | 55min | 55min | Charge to 100% | 2.5hr | 2.3hr | 2.3hr | | | | | | | | | | | | | | | | | | | | |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | 1.1hr | 55min | 55min | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | 2.5hr | 2.3hr | 2.3hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(MQ2-2) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BS (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|----------------|------------------|------|----------|---------------|--------|-------------------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20BS009XUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 07/15 |
| 20BS009YUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 07/15 |
| 20BS00A0US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 07/15 |
| 20BS00BJUS | i5-5200U | No | HD 5500 | 4GBx1 | 14" FHD | No | 180G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 08/15 |
| 20BS00BLUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 08/15 |
| 20BS00BMUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 08/15 |
| 20BS00B5US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | MT | 256G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 09/15 |
| 20BS00BAUS | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | MT | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 09/15 |
| 20BS00B4US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | No | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 09/15 |
| 20BS00B6US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | No | 256G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-depot | No | 09/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | |
|---------------------|---|------------|----------------|---------------------|--------|---|--|--------------------|----------|------------|---------------|---------|--------|--------|----------------|-------|-------|-------|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | | | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | | Memory Types | | | | | | | | | | | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | | DDR3L-1600 | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | | | | | | | |
| i7-5600U | 2.6 GHz | | 3.2 GHz | 4MB | | | | | | | | | | | | | | |
| Weight ² | Models | FHD | WQHD | WQHD Touch | Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | | | | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 | | | | | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | | | | | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | |
| Optical | None | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | | | | | | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Max battery life ¹⁰ | Models | FHD | WQHD | WQHD Touch | Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | RapidCharge | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | 1.1hr | 55min | 55min | Charge to 100% | 2.5hr | 2.3hr | 2.3hr |
| Media reader | None | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | | | | | Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | | | | | Limited warranty ¹² 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | |

See footnotes for more detailed information

(MQ2-7) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BT

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (sold-dered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|---------------------|--------------|-------------|----------------|------------------|------|----------|---------------|--------|-------------------|---------------------|---------------|----------------------|----------------|----------------------|--------|----------------|
| 20BT005UUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | mDP-VGA | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 DG Win7 | 3-depot | No | 05/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|-------------------|---|------------|----------------|---------------------|-------|--------------------------------|--|--------|---------------------|---------------------|--------------------|--|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ | WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | FHD | WQHD | WQHD Touch | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Weight | | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | | |
| Graphics | Intel HD Graphics 5500 | | | | | Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys UltraNav™ TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | | | | | vPro (optional) | Intel vPro Technology | | | | | |
| Optical | None | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | | | | | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Max battery life ¹⁰ | Models | FHD | WQHD | WQHD Touch | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | RapidCharge | AC adapter | 45W | 65W Slim | 65W | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | Charge to 80% | 1.1hr | 55min | 55min | | | |
| Media reader | None | | | | | Charge to 100% | 2.5hr | 2.3hr | 2.3hr | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 P64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64 | | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective April 2015

(MQ2-5) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BT (Windows 8)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|----------------|------------------|--------|----------|---------------|--------|-------------------|--------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20BT000AUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/15 |
| 20BT000FUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD | No | 180G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/15 |
| 20BT000HUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/15 |
| 20BT000QUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT000UUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 360G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT000WUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT0017US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT0019US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT003EUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT003JUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT000CUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/15 |
| 20BT000GUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/15 |
| 20BT000KUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT000XUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 360G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT0011US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT0012US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT0014US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT0016US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 360G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |
| 20BT003MUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | Yes | 01/15 |
| 20BT003QUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ | WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | | | | | | | | | | | |
|-------------------|---|---------------------|--------------------|---------------------|-------|--------------------------------|---|--|--|--|------------|--------|----------|------------|---------------|---------|---------------------|---------------------|--------------------|-------|-------|-------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.996 lb / 1.359 kg</td> <td>2.877 lb / 1.305 kg</td> <td>3.175 lb / 1.44 kg</td> </tr> </tbody> </table> | | | | Models | FHD | WQHD | WQHD Touch | Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | |
| Weight | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | | | | | | | | | | | | | | | | | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | | | | | | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys UltraNav™ TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 | | | | | Security chip | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | | | | | | | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | | | | | Max battery life ¹⁰ | <table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.9 hr</td> <td>9.9 hr</td> <td>9.9 hr</td> </tr> </tbody> </table> | | | | Models | FHD | WQHD | WQHD Touch | Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | |
| Models | FHD | WQHD | WQHD Touch | | | | | | | | | | | | | | | | | | | |
| Battery life | 10.9 hr | 9.9 hr | 9.9 hr | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | | | | | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>1.1hr</td> <td>55min</td> <td>55min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.5hr</td> <td>2.3hr</td> <td>2.3hr</td> </tr> </tbody> </table> | | | | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | 1.1hr | 55min | 55min | Charge to 100% | 2.5hr | 2.3hr | 2.3hr |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | 1.1hr | 55min | 55min | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | 2.5hr | 2.3hr | 2.3hr | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64-bit Win8.1 P64: Windows 8.1 64-bit Win10 P64: Windows 10 Pro 64-bit | | | | | | | | | | | | | | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | | | | | | | | | | | | | | | | | |
| Media reader | None | | | | | | | | | | | | | | | | | | | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | | | | | | | | | | | | | | | | | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective April 2015

(MQ2-3) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BT (Onsite) - Windows 8

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Fingerprint reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|----------------|------------------|--------|----------|---------------|--------|-------------------|--------------------|---------------|----------------------|------------|----------------------|--------|----------------|
| 20BT000JUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD | No | 180G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/15 |
| 20BT003XUS | i5-5300U | vPro | HD 5500 | 4GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/15 |
| 20BT000LUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT000MUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT000NUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 360G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT000PUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT000SUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT0010US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT0018US | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT003VUS | i5-5300U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/15 |
| 20BT000BUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/15 |
| 20BT000DUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/15 |
| 20BT000EUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | Yes | 01/15 |
| 20BT000RUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT000TUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 360G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT000VUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 256G SSD Opal2 | 7265 ac+BT | EM7345 | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT000YUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT0013US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT0015US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 360G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |
| 20BT003WUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 240G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win8.1 P64 | 3-onsite | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | | | |
|-------------------|---|------------|----------------|---------------------|-------|--------------------------------|--|---|---|--|---------------------|--------------------|--|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ | WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Weight ² | Models | | FHD | WQHD | WQHD Touch | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | | Weight | | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | Case material | | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | |
| Graphics | Intel HD Graphics 5500 | | | | | | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | vPro (optional) | Intel vPro Technology | | | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | |
| Optical | None | | | | | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | | | | | Max battery life ¹⁰ | Models | | FHD | WQHD | WQHD Touch | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | RapidCharge | AC adapter | | 45W | 65W Slim | 65W | | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | Charge to 80% | | | 1.1hr | 55min | 55min | | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | Charge to 100% | | | 2.5hr | 2.3hr | 2.3hr | | |
| Media reader | None | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | | | | Win8.1 P64: | Windows 8.1 64-bit | | | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | | | | | Win8.1 P64: | Windows 8.1 Pro 64-bit | | | | | | |
| | | | | | | Win10 P64: | Windows 10 Pro 64 | | | | | | |
| | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | |

See footnotes for more detailed information
US model(s) withdrawn effective April 2015

(MQ2-4) © Lenovo

ThinkPad X1 Carbon (3rd Gen) 20BT (Onsite) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Multi-touch | Storage | WLAN & Bluetooth | WWAN | SIM card | Monitor cable | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|--------------|-------------|----------------|------------------|------|----------|---------------|--------|-------------------|---------------------|---------------|----------------------|-----------|----------------------|--------|----------------|
| 20BT007YUS | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" FHD | No | 128G SSD | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-onsite | Yes | 07/15 |
| 20BT0081US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | MT | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-onsite | Yes | 07/15 |
| 20BT0080US | i7-5600U | vPro | HD 5500 | 8GBx1 | 14" WQHD IPS | No | 256G SSD Opal2 | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-onsite | Yes | 07/15 |
| 20BT0087US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | MT | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20BT0085US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | No | 256G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-onsite | Yes | 09/15 |
| 20BT0086US | i7-5600U | vPro | HD 5500 | 16GBx1 | 14" WQHD IPS | No | 512G SSD PCIe | 7265 ac+BT | Upg | None | None | 720p | Backlit | Finger | 8(50wh) | 65W | Win10 P64 | 3-onsite | Yes | 09/15 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | |
|---------------------|---|---------------------|---------------------|---------------------|--------|---|--|---------|----------|------------|--|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | | Memory Types | | | | |
| | i5-5200U | 2 | 2.2 GHz | 2.7 GHz | 3MB | | DDR3L-1600 | | | | |
| | i5-5300U | | 2.3 GHz | 2.9 GHz | 3MB | | | | | | |
| | i7-5500U | | 2.4 GHz | 3 GHz | 4MB | | | | | | |
| | i7-5600U | | 2.6 GHz | 3.2 GHz | 4MB | | | | | | |
| | | | | | | | | | | | |
| Weight ² | Models | FHD | WQHD | WQHD Touch | Weight | | | | | | |
| | | 2.996 lb / 1.359 kg | 2.877 lb / 1.305 kg | 3.175 lb / 1.44 kg | | | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum | | | | | | | | | | |
| Graphics | Intel HD Graphics 5500 | | | | | Camera | HD720p resolution, low light sensitive, fixed focus, gesture input | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | Audio support | HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | |
| Memory | 4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets | | | | | Keyboard | 6-row, LED backlit, spill-resistant, multimedia Fn keys | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | |
| Multi-touch (opt) | Capacitive-type multi-touch, supports 10-finger gesture, 270 nits | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | |
| Storage | M.2 Solid State Drive (SSD), PCIe 2.0 x4 or SATA | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | |
| Optical | None | | | | | vPro (optional) | Intel vPro Technology | | | | |
| Ethernet | Gigabit Ethernet via Ethernet extension cable | | | | | Fingerprint reader | Fingerprint reader on the keyboard bezel, swipe sensor | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | Battery type | Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery | | | | |
| WLAN ⁴ | 7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card | | | | | Max battery life ¹⁰ | Models | FHD | WQHD | WQHD Touch | |
| | | | | | | | Battery life | 10.9 hr | 9.9 hr | 9.9 hr | |
| WWAN (optional) | Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | |
| | | | | | | RapidCharge | AC adapter | 45W | 65W Slim | 65W | |
| SIM card (opt) | AT&T® or Verizon® LTE (4G), contract required with service provider | | | | | Preload | Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 | | | | |
| Media reader | None | | | | | | Win8.1 64: Windows 8.1 64-bit | | | | |
| Ports | Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector | | | | | | Win8.1 P64: Windows 8.1 Pro 64-bit | | | | |
| Monitor cable | Optional: Mini DisplayPort to VGA Monitor Cable | | | | | | Win10 P64: Windows 10 Pro 64 | | | | |
| | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | |

See footnotes for more detailed information

(MQ2-8) © Lenovo



Lenovo® ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)



Lenovo ThinkPad X1 Carbon (4th Gen)

ThinkPad X1 Carbon (4th Gen) Platform Specifications

Product Specifications Reference (PSREF)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | | Media reader | MicroSD card reader, supports UHS-II microSD card | | | | | | | | | | | | | | | |
|-------------------------|--|------------|--------------|----------------|---------------------|-------|--------------|--------------------------------|---|--|--|--|------------|-----|----------|-----|---------------|-------------|--------|--------|----------------|-------------|--------|--------|
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Ports | Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector | | | | | | | | | | | | | | |
| | i5-6200U | 2 | 4 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | Intel HD graphics 520 | WiGig dock (opt) | WiGig dock, mutually exclusive with WWAN | | | | | | | | | | | | | | |
| | i5-6300U | | | 2.4 GHz | 3.0 GHz | 3MB | | | Adapter (optional) | HDMI-VGA: Lenovo HDMI to VGA Monitor Cable | | | | | | | | | | | | | | |
| | i7-6500U | | | 2.5 GHz | 3.1 GHz | 4MB | | | | mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable | | | | | | | | | | | | | | |
| | i7-6600U | | | 2.6 GHz | 3.4 GHz | 4MB | | | | RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor, external digital monitor support via Mini DisplayPort or HDMI™; supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort) @60Hz; 4096x2304 (HDMI) @24Hz | | | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | Audio support | HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle Some: 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, IPS, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 72% gamut, 170° viewing angle | | | | | | | UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole, reset switch | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | | | | | | | ThinkEngine | Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via optional Ethernet (RJ-45) adapter (by native Intel Ethernet Connection I219-V (Non-vPro) or I219-LM (vPro)) | | | | | | | Fingerprint reader | Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | |
| WLAN ⁴ | One of the following, configurable by model (WiGig is mutually exclusive with WWAN): • 11ac+BT, Intel Dual Band Wireless-AC 8260, 2x2, M.2 card • WiGig™+11ac+BT, Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | Battery | Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | Max battery life ¹⁰ | MobileMark® 2014: 11 hr | | | | | | | | | | | | | | | |
| WWAN (optional) | One of the following, configurable by model (mutually exclusive with WiGig): • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card • Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>Not support</td> <td>1.0 hr</td> <td>1.0 hr</td> </tr> <tr> <td>Charge to 100%</td> <td>Not support</td> <td>2.5 hr</td> <td>2.5 hr</td> </tr> </tbody> </table> | | | | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | Not support | 1.0 hr | 1.0 hr | Charge to 100% | Not support | 2.5 hr | 2.5 hr |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | Not support | 1.0 hr | 1.0 hr | | | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | | | | | | | | | | |
| Dimensions ³ | WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm | | | | | | | Preload | Windows 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | | | | | | | | | | | | | |
| Weight ² | from 2.579 lb / 1.17 kg | | | | | | | | <ul style="list-style-type: none"> • Lenovo Solution Center • Lenovo Companion • Lenovo Setting • Microsoft Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | | | | |
| Case material | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium | | | | | | | | <ul style="list-style-type: none"> • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® LiveSafe™ (30-day trial) | | | | | | | | | | | | | | | |
| | | | | | | | | Limited warranty ¹² | One of the following, configurable by model: • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) | | | | | | | | | | | | | | | |
| | | | | | | | | Mil-Spec test | MIL-STD-810G military certification | | | | | | | | | | | | | | | |
| | | | | | | | | Environment | EPEAT™ Gold (US only); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant | | | | | | | | | | | | | | | |

ThinkPad X1 Carbon (4th Gen) 20FB (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Adapter | Dock | Camera | Backlit keyboard | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Global | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|----------------|--------------------------|------------------|------|----------|---------|------|--------|------------------|---------------------|---------------|----------------------|---------------|----------------------|--------|----------------|
| 20FB002JUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB002KUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB002MUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB002PUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB002RUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB0045US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB0048US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB004AUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB004BUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB004EUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB004JUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB004LUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB004MUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB004TUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB0050US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB005AUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB005CUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB005KUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB005PUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB005SUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB005WUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB0065US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB002LUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |
| 20FB002NUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG Win7 | 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

| | | | | | | | | | | | | | | |
|-------------------|---|------------|----------------|---------------------|-------|--------------|---|--|--|---|--|---|--|--|
| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ Weight ² Case material | WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium | | | | | | |
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | Media reader Ports WiGig dock (opt) Adapter (optional) | MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter | | | | | |
| | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | | | | | | | | |
| | i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | |
| | i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | |
| i7-6600U | 2.6 GHz | | 3.4 GHz | 4MB | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor | | | | | | Camera Audio support | HD720p resolution, low light sensitive, fixed focus HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | Security Security chip vPro (optional) Fingerprint reader | Power-on / hard disk / supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Touch style fingerprint reader on the palm rest | | | | | |
| Memory | 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets | | | | | | | | Battery Max battery life ¹⁰ AC adapter RapidCharge | Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery MobileMark® 2014: 11 hr 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | | | | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | |
| Multi-touch | None | | | | | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | | | | | | | | | | | | | |
| Optical | None | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via optional Ethernet (RJ-45) adapter | | | | | | | | | | | | | |
| WLAN ⁴ | 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | |

See footnotes for more detailed information

(RV1-1) © Lenovo

ThinkPad X1 Carbon (4th Gen) 20FB (TopSeller) - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Adapter | Dock | Camera | Backlit key-board | Finger-print reader | Battery cells | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|----------------|----------------|------------------|------|----------|---------|------|--------|-------------------|---------------------|---------------|----------------------|----------|----------------------|---------|----------------|
| 20FB002QUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG | Win7 3-depot | No | 02/16 |
| 20FB002SUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 DG | Win7 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | Dimensions ³ Weight ² Case material Media reader Ports WiGig dock (opt) Adapter (optional) | WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter | | | | | | | | | | | |
|-----------------------|---|------------|----------------|---------------------|-------|---|--|---|------------|-------------------|---------------|-------------|--------|--------|----------------|-------------|--------|--------|
| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | | | Memory Types | | | | | | | | | | |
| | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | | | LPDDR3-1866 | | | | | | | | | | |
| | i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | |
| | i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | |
| i7-6600U | 2.6 GHz | | 3.4 GHz | 4MB | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | Camera Audio support Security Security chip vPro (optional) Fingerprint reader | | | | | | | | | | | | |
| Multi-touch | None | | | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via optional Ethernet (RJ-45) adapter | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | Battery Max battery life ¹⁰ AC adapter RapidCharge Preload Limited warranty ¹² | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | | | | | |
| Keyboard UltraNav™ | 6-row, spill-resistant, multimedia Fn keys, LED backlight TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | | | |
| | | | | | | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>Not support</td> <td>1.0 hr</td> <td>1.0 hr</td> </tr> <tr> <td>Charge to 100%</td> <td>Not support</td> <td>2.5 hr</td> <td>2.5 hr</td> </tr> </tbody> </table> | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | Not support | 1.0 hr | 1.0 hr | Charge to 100% | Not support | 2.5 hr | 2.5 hr |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | |
| Charge to 80% | Not support | 1.0 hr | 1.0 hr | | | | | | | | | | | | | | | |
| Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | | | | |
| | | | | | | <table border="1"> <thead> <tr> <th>Win10 DG Win7:</th> <th>Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64</th> </tr> </thead> <tbody> <tr> <td>Win10 P64:</td> <td>Windows 10 Pro 64</td> </tr> </tbody> </table> | Win10 DG Win7: | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | Win10 P64: | Windows 10 Pro 64 | | | | | | | | |
| Win10 DG Win7: | Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | | | | | | | | | | | | | | | |
| Win10 P64: | Windows 10 Pro 64 | | | | | | | | | | | | | | | | | |
| | | | | | | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad X1 Carbon (4th Gen) 20FB (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Adapter | Dock | Camera | Backlit key-board | Finger-print reader | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|---------------|--------------------------|------------------|------|----------|---------|------|--------|-------------------|---------------------|----------------|----------------------|-----------|----------------------|---------|----------------|
| 20FB0046US | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0047US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004DUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004PUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004QUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004RUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004UUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004WUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 180G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004XUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 240G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004YUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0051US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0056US | i7-6500U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0057US | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0059US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005DUS | i7-6500U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005EUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 240G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005FUS | i7-6500U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 192G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005MUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005TUS | i5-6200U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005UUS | i7-6500U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005XUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005YUS | i7-6500U | No | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0060US | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0062US | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" FHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ Weight ² Case material | WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|--|----------------|---------------------|------------|--------------|----------|-----|---------------|-------------|--------|-------------|----------------|-------------|---------|--------|----------|---------|---------|-----|----------|---------|---------|-----|---|--|--|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6200U</td> <td rowspan="4">2</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="4">LPDDR3-1866</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | i5-6300U | 2.4 GHz | 3.0 GHz | 3MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | Media reader Ports WiGig dock (opt) Adapter (optional) | MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter | | |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor | Camera Audio support | HD720p resolution, low light sensitive, fixed focus Dual Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Security Security chip vPro (optional) Fingerprint reader | Power-on / hard disk / supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets | Battery Max battery life ¹⁰ AC adapter RapidCharge | Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery MobileMark® 2014: 11 hr 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>Not support</td> <td>1.0 hr</td> <td>1.0 hr</td> </tr> <tr> <td>Charge to 100%</td> <td>Not support</td> <td>2.5 hr</td> <td>2.5 hr</td> </tr> </tbody> </table> | | | | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | Not support | 1.0 hr | 1.0 hr | Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | Not support | 1.0 hr | 1.0 hr | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via optional Ethernet (RJ-45) adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

(RV1-3) © Lenovo

ThinkPad X1 Carbon (4th Gen) 20FB (TopSeller) - Windows 10 - II

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Adapter | Dock | Camera | Backlit key-board | Finger-print reader | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|----------------|--------------------------|------------------|------|----------|---------|------|--------|-------------------|---------------------|----------------|----------------------|-----------|----------------------|---------|----------------|
| 20FB0044US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 180G SSD Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004FUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 128G SSD | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004GUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 256G SSD Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004HUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 240G SSD Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004KUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004SUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 180G SSD Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0053US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0054US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0055US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 512G SSD | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005BUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 192G SSD | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005GUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 256G SSD Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005NUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005QUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005RUS | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 512G SSD | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005VUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 512G SSD | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0061US | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 192G SSD | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0063US | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0064US | i7-6600U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 256G SSD Opal2 | 8260 ac+BT | None | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0049US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004CUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004NUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB004VUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 256G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0052US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 256G SSD PCIe NVMe Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB0058US | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 240G SSD Opal2 | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | Dimensions ³ Weight ² Case material | WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm from 2.579 lb / 1.17 kg Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|---|--|----------------|---------------------|------------|--------------|----------|-----|---------------|-------------|--------|-------------|----------------|-------------|---------|--------|----------|---------|---------|-----|----------|---------|---------|-----|---|--|--|--|
| | <table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-6200U</td> <td rowspan="4">2</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="4">LPDDR3-1866</td> </tr> <tr> <td>i5-6300U</td> <td>2.4 GHz</td> <td>3.0 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> <tr> <td>i7-6600U</td> <td>2.6 GHz</td> <td>3.4 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | i5-6300U | 2.4 GHz | 3.0 GHz | 3MB | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | i7-6600U | 2.6 GHz | 3.4 GHz | 4MB | Media reader Ports WiGig dock (opt) Adapter (optional) | MicroSD card reader, supports UHS-II microSD card Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector WiGig dock, mutually exclusive with WWAN HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter | | |
| Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | | 2.6 GHz | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor | Camera Audio support | HD720p resolution, low light sensitive, fixed focus Dual Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Security Security chip vPro (optional) Fingerprint reader | Power-on / hard disk / supervisor password, security keyhole, reset switch Trusted Platform Module, TCG 1.2-compliant Intel vPro Technology Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets | Battery Max battery life ¹⁰ AC adapter RapidCharge | Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery MobileMark® 2014: 11 hr 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>Not support</td> <td>1.0 hr</td> <td>1.0 hr</td> </tr> <tr> <td>Charge to 100%</td> <td>Not support</td> <td>2.5 hr</td> <td>2.5 hr</td> </tr> </tbody> </table> | | | | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | Not support | 1.0 hr | 1.0 hr | Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | Not support | 1.0 hr | 1.0 hr | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Win10 P64: Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via optional Ethernet (RJ-45) adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad X1 Carbon (4th Gen) 20FB (TopSeller) - Windows 10 - III

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory (soldered) | Display | Storage | WLAN & Bluetooth | WWAN | SIM card | Adapter | Dock | Camera | Backlit key-board | Finger-print reader | Bat-tery cells | Power adapter (watt) | Preload | Base warranty (year) | Glob-al | Ann date (m/y) |
|------------|-----------|------|----------|-------------------|----------------|--------------------|------------------|------|----------|---------|------|--------|-------------------|---------------------|----------------|----------------------|-----------|----------------------|---------|----------------|
| 20FB005HUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 128G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005JUS | i5-6300U | vPro | HD 520 | 8GBx1 | 14.0" WQHD IPS | 512G SSD | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |
| 20FB005LUS | i7-6600U | vPro | HD 520 | 16GBx1 | 14.0" WQHD IPS | 512G SSD PCIe NVMe | 8260 ac+BT | Upg | None | None | None | 720p | Backlit | Finger | 4 | 65W | Win10 P64 | 3-depot | No | 02/16 |

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(4th Gen\) Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | | | | | | Dimensions ³ | WxDxH: 13.11" x 9.02" x 0.59-0.65"; 333.0mm x 229.0mm x 14.95-16.45mm | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|---|------------|----------------|---------------------|-------|---|--------------------------------|---|----------------|---------------------|-------|--------------|----------|----------|---------|---------------|-------------|-------------|----------|----------------|-------------|--------|----------|---------|---------|-----|----------|---------|---------|-----|---------------------|-------------------------|--|--|--|
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| | Processor | # of Cores | Base Frequency | Max Turbo Frequency | Cache | Memory Types | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-6200U | 2 | 2.3 GHz | 2.8 GHz | 3MB | LPDDR3-1866 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | i5-6300U | | 2.4 GHz | 3.0 GHz | 3MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6500U | 2.5 GHz | | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i7-6600U | 2.6 GHz | | 3.4 GHz | 4MB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | | | | | | Display cover: Carbon-Fiber Reinforced Plastic; Bottom: Super magnesium | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media reader | | | | | | MicroSD card reader, supports UHS-II microSD card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ports | | | | | | Three USB 3.0 (one Always On), MiniDP, HDMI, Lenovo OneLink+ connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WiGig dock (opt) | | | | | | WiGig dock, mutually exclusive with WWAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adapter (optional) | | | | | | HDMI-VGA: Lenovo HDMI to VGA Monitor Cable mDP-VGA: Lenovo Mini DisplayPort to VGA Monitor Cable RJ45: ThinkPad OneLink+ to RJ45 adapter VGA/RJ45: ThinkPad OneLink+ to VGA/RJ45 adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics 520 in processor | | | | | | Camera | HD720p resolution, low light sensitive, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | Audio support | HD Audio, Conexant® CX11852 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 4GB, 8GB, or 16GB / 1866MHz LPDDR3 / soldered to systemboard, no sockets | | | | | | Security | Power-on / hard disk / supervisor password, security keyhole, reset switch | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 700:1 contrast ratio, IPS Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS | | | | | | Security chip | Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | | | | | | vPro (optional) | Intel vPro Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hinge | Normal hinge, 180 degree | | | | | | Fingerprint reader | Touch style fingerprint reader on the palm rest | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: M.2 SSD / SATA 6.0Gb/s Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 4, 32Gb/s | | | | | | Battery | Integrated Lithium Polymer 4-cell (52Wh) RapidCharge battery | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | | | | | | Max battery life ¹⁰ | MobileMark® 2014: 11 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet via optional Ethernet (RJ-45) adapter | | | | | | AC adapter | 45W AC adapter, 65W Slim AC adapter, or 65W AC adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN ⁴ | 8260 ac+BT: Intel Dual Band Wireless-AC 8260, 2x2, M.2 card 18260 ac+BT: Intel Tri-Band Wireless-AC 18260, 2x2 WLAN, WiGig, M.2 card | | | | | | RapidCharge | <table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>Not support</td> <td>1.0 hr</td> <td>1.0 hr</td> </tr> <tr> <td>Charge to 100%</td> <td>Not support</td> <td>2.5 hr</td> <td>2.5 hr</td> </tr> </tbody> </table> | | | | AC adapter | 45W | 65W Slim | 65W | Charge to 80% | Not support | 1.0 hr | 1.0 hr | Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | |
| AC adapter | 45W | 65W Slim | 65W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 80% | Not support | 1.0 hr | 1.0 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charge to 100% | Not support | 2.5 hr | 2.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | Preload | Win10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN (optional) | Upg: Wireless WAN upgradable EM7455: Wireless WAN, Sierra Wireless EM7455, Qualcomm® 4G LTE-Advanced/ DC-HSPA+/HSPA+/HSPA/UMTS/GNSS, M.2 card ME906S: Wireless WAN, HUAWEI ME906S, HUAWEI 4G LTE/ WCDMA/HSPA/GSM/GPRS/EDGE/GNSS, M.2 card (WE only) | | | | | | Limited warranty ¹² | 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card (opt) | Micro-SIM card slot, optional Verizon LTE (US) or Lenovo Connect (WE) SIM card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys, LED backlight | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UltraNav™ | TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

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Lenovo® ThinkPad E450



Lenovo ThinkPad E450



Lenovo ThinkPad E450

ThinkPad E450 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|-----------------------------|---|------------|--------------|----------------|---------------------|--------|--------------|---|---------------------------|---|--|
| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector | |
| | i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | | None | |
| | i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | | Camera | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | | HD5500 | | <i>Some:</i> 0.3-megapixel, fixed focus | |
| i7-5500U | 2 | 4 | 2.4 GHz | 3.0 GHz | 4MB | HD5500 | | <i>Some:</i> HD720p resolution, fixed focus | | | |
| Graphics | Intel HD Graphics in processor only, or AMD Radeon R5 M240 Graphics, 1GB DDR3 memory, AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | ThinkLight™ | None | |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Multi-touch | <i>Some:</i> supports 10-finger gesture | | | | | | | | Security chip | TPM : Trusted Platform Module, TCG 1.2-compliant Soft : Software TPM enabled | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | vPro | None | |
| Optical | None | | | | | | | | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor | |
| M.2 SSD | None | | | | | | | | NFC | None | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Battery life | 6-cell (47Wh): up to 9.0 hr | |
| WLAN | <i>One of the following, configurable by model:</i> • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | AC adapter | <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) | |
| WWAN | None | | | | | | | | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) | |
| SIM card | None | | | | | | | | | <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage System Update • Evernote • Maxthon Cloud Browser • Norton Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions) | |
| Smart Card Read ExpressCard | None | | | | | | | | | <i>Some:</i> Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions) | |
| Dimensions | <i>None Touch (WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| Weight | <i>6-cell None Touch:</i> from 4.00 lb (1.81kg) | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | |
| Case color | Graphite Black | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | |

ThinkPad E450 20DC - TopSeller

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|----------------|----------------------|--------|----------------|
| 20DC003FUS | i3-4005U | No | HD 4400 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | No | 6 (47wh) | 45W | Win8.1 64 | 1-depot | No | 01/15 |
| 20DC003JUS | i3-4005U | No | HD 4400 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | No | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003KUS | i3-4005U | No | HD 4400 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003LUS | i3-4005U | No | HD 4400 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003SUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003TUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003UUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003VUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003PUS | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003NUS | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003MUS | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 64 | 1-depot | No | 01/15 |
| 20DC003QUS | i3-5005U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC003RUS | i3-5005U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DC004CUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004HUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004TUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" FHD | None | 1TB 5400 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC003WUS | i3-4005U | No | HD 4400 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0049US | i3-5005U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004NUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 128GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004EUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" FHD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad E450 Platform Specifications sheet](#)

| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions Weight | <i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm 6-cell <i>None Touch:</i> from 4.00 lb (1.81kg) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|----------------------|---|--|----------------|---------------------|--------------------|--------------|--------------------|----------|---|---|---------|---|-----|------------|--------|----------|---|---|---------|---|-----|--------|----------|---|---|---------|---------|-----|--------|------------|----------------|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>i3-4005U</td> <td>2</td> <td>4</td> <td>1.7 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> <td>HD4400</td> </tr> <tr> <td>i3-5005U</td> <td>2</td> <td>4</td> <td>2.0 GHz</td> <td>-</td> <td>3MB</td> <td>HD5500</td> </tr> <tr> <td>i5-5200U</td> <td>2</td> <td>4</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td>HD5500</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | HD5500 | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | HD5500 | Case color | Graphite Black |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics in processor only, or digital monitor support via HDMI™ (supporting HDCP to output protected content) | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Ports | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Monitor cable | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | Camera | HD720p resolution, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | Some: supports 10-finger gesture | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ | Keyboard | 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad ThinkLight™ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | None | Security chip | Some: Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | vPro | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | NFC | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | Battery type | Li-Ion 6-cell (47Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | Battery life | 6-cell (47Wh): up to 9.0 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45-watt AC adapter (Integrated Graphics) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit | Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E450 20DC - TopSeller - II

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|----------------|----------------------|--------|----------------|
| 20DC003XUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 128GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004QUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004FUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" FHD | None | 128GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004PUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" FHD | None | 128GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0046US | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0048US | i3-5005U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0043US | i3-4005U | No | HD 4400 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004DUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004KUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0042US | i3-4005U | No | HD 4400 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0045US | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004SUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004GUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0047US | i3-5005U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004MUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" FHD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0041US | i3-4005U | No | HD 4400 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004LUS | i5-5200U | No | HD 5500 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0044US | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004JUS | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" FHD | None | 1TB 5400 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0040US | i3-4005U | No | HD 4400 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | No | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad E450 Platform Specifications sheet](#)

| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions Weight | <i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|----------------------|---|--|----------------|---------------------|--------------------|--------------|--------------------|----------|---|---|---------|---|-----|------------|--------|----------|---|---|---------|---|-----|--------|----------|---|---|---------|---------|-----|--------|------------|---|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>i3-4005U</td> <td>2</td> <td>4</td> <td>1.7 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> <td>HD4400</td> </tr> <tr> <td>i3-5005U</td> <td>2</td> <td>4</td> <td>2.0 GHz</td> <td>-</td> <td>3MB</td> <td>HD5500</td> </tr> <tr> <td>i5-5200U</td> <td>2</td> <td>4</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td>HD5500</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | HD5500 | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | HD5500 | Case color | 6-cell <i>None Touch:</i> from 4.00 lb (1.81kg) |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics in processor only, or digital monitor support via HDMI™ (supporting HDCP to output protected content) | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Ports | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Monitor cable | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | Camera | HD720p resolution, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | Some: supports 10-finger gesture | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | None | ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | Some: Trusted Platform Module, TCG 1.2-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | vPro | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | NFC | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | Battery type | Li-Ion 6-cell (47Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery life | 6-cell (47Wh): up to 9.0 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45-watt AC adapter (Integrated Graphics) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit | Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E450 20DC (Radeon) - TopSeller

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|----------------|----------------------|--------|----------------|
| 20DC0099US | i7-5500U | No | R7 M260 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0050US | i7-5500U | No | R7 M260 | 8GBx1 | 14.0" FHD | None | 128GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004YUS | i7-5500U | No | R7 M260 | 8GBx1 | 14.0" HD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004VUS | i7-5500U | No | R7 M260 | 4GBx1 | 14.0" FHD | None | 128GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC003YUS | i7-5500U | No | R7 M260 | 8GBx1 | 14.0" HD | None | 128GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004WUS | i7-5500U | No | R7 M260 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004XUS | i7-5500U | No | R7 M260 | 4GBx1 | 14.0" FHD | None | 1TB 5400 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC0051US | i7-5500U | No | R7 M260 | 8GBx1 | 14.0" FHD | None | 1TB 5400 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DC004UUS | i7-5500U | No | R7 M260 | 4GBx1 | 14.0" FHD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad E450 Platform Specifications sheet](#)

| | | | | | | | | | | |
|-------------|--|------------|--------------|----------------|---------------------|-------|--------------|--------------------|---|---|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Dimensions Weight Case color Case material | None Touch(WxDxH): 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm 6-cell None Touch: from 4.00 lb (1.81kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | HD5500 | Multicard Reader Ports Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector | |
| | i7-5500U | 2 | 4 | 2.4 GHz | 3.0 GHz | 4MB | | HD5500 | | |
| Graphics | AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Monitor cable | None |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Camera | HD720p resolution, fixed focus |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys |
| Multi-touch | Some: supports 10-finger gesture | | | | | | | | ThinkLight™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole |
| Optical | None | | | | | | | | Security chip | None |
| M.2 SSD | None | | | | | | | | vPro | None |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | | | | | | | | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | NFC | None |
| WLAN | One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) |
| WWAN | None | | | | | | | | Battery life | 6-cell (47Wh): up to 9.0 hr |
| SIM card | None | | | | | | | | AC adapter | 65-watt AC adapter (Discrete Graphics) |
| | | | | | | | | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit |
| | | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant |

See footnotes for more detailed information

ThinkPad E450 20DC - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20DC00B0US | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 07/15 |
| 20DC00AVUS | i3-4005U | No | HD 4400 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 07/15 |
| 20DC00B1US | i5-5200U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 07/15 |
| 20DC00B2US | i3-4005U | No | HD 4400 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 07/15 |
| 20DC00BYUS | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 0.3M | Keyboard | TPM | No | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20DC00BWUS | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 08/15 |
| 20DC00BVUS | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 0.3M | Keyboard | TPM | No | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 08/15 |
| 20DC00BXUS | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3160 ac+BT4.0 | None | None | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20DC00C0US | i3-5005U | No | HD 5500 | 4GBx1 | 14.0" HD | None | 192GB SSD | None | 3160 ac+BT4.0 | None | None | 0.3M | Keyboard | TPM | No | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad E450 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|------------------|---|---|--------------|----------------|---------------------|--------|--------------|--------------------|-------------------------------------|---|---|--|
| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Dimensions | <i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Weight | <i>6-cell None Touch:</i> from 4.00 lb (1.81kg) | | |
| | i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | Case color | Graphite Black | | |
| | i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | |
| i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | HD5500 | | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | |
| Graphics | Intel HD Graphics in processor only, or digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Ports | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector | | |
| | Chipset | Intel SoC (System on Chip) platform | | | | | | | | Monitor cable | None | |
| Memory | | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Camera | <i>Some:</i> 0.3-megapixel, fixed focus <i>Some:</i> HD720p resolution, fixed focus | |
| | Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio | | | | | | | | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | |
| Multi-touch | | Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys | |
| | Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | |
| Optical | | Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | ThinkLight™ | None | |
| | M.2 SSD | Some: Hybrid drive with 8GB NAND flash memory | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Ethernet | | None | | | | | | | | Security chip | TPM : Trusted Platform Module, TCG 1.2-compliant Soft : Software TPM enabled | |
| | Bluetooth™ | None | | | | | | | | vPro | None | |
| WLAN | | Intel WGI218V Gigabit Ethernet Connection | | | | | | | | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor | |
| | WWAN | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | NFC | None | |
| SIM card | | None | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) | |
| | Preload | One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | Battery life | 6-cell (47Wh): up to 9.0 hr | |
| Limited warranty | | None | | | | | | | | AC adapter | 45-watt AC adapter (Integrated Graphics) | |
| | Environment | None | | | | | | | | Preload | <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | |
| Environment | | None | | | | | | | | Preload | <i>Some:</i> Windows 10 Pro 64 | |
| | Environment | None | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| Environment | | None | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | |

See footnotes for more detailed information

ThinkPad E450 20DC (Radeon) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20DC00AWUS | i7-5500U | No | R7 M260 | 4GBx1 | 14.0" FHD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | Soft | Finger | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 07/15 |
| 20DC00AYUS | i7-5500U | No | R7 M260 | 8GBx1 | 14.0" FHD | None | 192GB SSD | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | Soft | Finger | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 07/15 |
| 20DC00AXUS | i7-5500U | No | R7 M260 | 4GBx1 | 14.0" FHD | None | 500GB 7200 | None | 7265 ac+BT4.0 | None | None | 720p | Keyboard | No | Finger | 6 (47wh) | 65W | Win10 DG Win7 | 1-depot | No | 07/15 |

• For detailed platform specifications, please see [ThinkPad E450 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|-------------|---|------------|--------------|----------------|---------------------|-------|--------------|--------------------|--------------------------|---|--|--|
| Processor | 5th Generation Intel® Core™ i5 / i7 Processor | | | | | | | | Dimensions | <i>None Touch(WxDxH):</i> 13.35" x 9.41" x 0.94"; 339mm x 239mm x 24mm | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Weight | <i>6-cell None Touch:</i> from 4.00 lb (1.81kg) | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | HD5500 | Case color | Graphite Black | | |
| | i7-5500U | 2 | 4 | 2.4 GHz | 3.0 GHz | 4MB | | HD5500 | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | |
| Graphics | AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Monitor cable | None | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Camera | HD720p resolution, fixed focus | | |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | Audio support | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), external monitor (HDMI), Lenovo OneLink connector | | |
| Multi-touch | <i>Some:</i> supports 10-finger gesture | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | ThinkNav™ ThinkLight™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None | | |
| Optical | None | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | |
| M.2 SSD | None | | | | | | | | Security chip | <i>TPM</i> : Trusted Platform Module, TCG 1.2-compliant <i>Soft</i> : Software TPM enabled | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | | | | | | | | vPro | None | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor | | |
| WLAN | <i>One of the following, configurable by model:</i> • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | NFC | None | | |
| WWAN | None | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) | | |
| SIM card | None | | | | | | | | Battery life | 6-cell (47Wh): up to 9.0 hr | | |
| | | | | | | | | | AC adapter | 65-watt AC adapter (Discrete Graphics) | | |
| | | | | | | | | | Preload | <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | |
| | | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | | |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | |

See footnotes for more detailed information



Lenovo® ThinkPad E455



Lenovo ThinkPad E455



Lenovo ThinkPad E455

ThinkPad E455 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|-----------------------------|---|------------|--------------|-------------|---------------------|------------------------|--------------|--|---------------------------|---|--|
| Processor | AMD Accelerated Processor A6, A8, or A10 APU | | | | | | | | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack | |
| | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | | None | |
| | A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | | R5 M240 | | Camera | |
| A10-7300 | 4 | 4 | 1.9 GHz | 3.2 GHz | 4MB | R7 M260DX (R6+R5 M240) | | HD720p resolution, fixed focus Audio support HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | |
| Graphics | AMD Radeon™ R4 HD Graphics in processor only, AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 APU digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys | |
| Chipset | AMD A76M FCH Chipset | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | ThinkLight™ | None | |
| Display | <i>Some:</i> 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole | |
| Multi-touch | None | | | | | | | | vPro | None | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | Fingerprint reader | None | |
| Optical M.2 SSD | None | | | | | | | | NFC | None | |
| Ethernet Bluetooth™ | Realtek® RTL8111GUS Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) | |
| WLAN | <i>One of the following, configurable by model:</i> • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | Battery life | Up to 6.5 hr | |
| WWAN | None | | | | | | | | AC adapter | <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) | |
| SIM card | None | | | | | | | | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) | |
| Smart Card Read ExpressCard | None | | | | | | | | | <i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage System Update • Evernote • Maxthon Cloud Browser • Norton Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions) | |
| Dimensions Weight | <i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) | | | | | | | | | <i>Some:</i> Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ | |
| Case color | Graphite black | | | | | | | | | <i>Some:</i> Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions) | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | |

See footnotes for more detailed information

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ThinkPad E455 20DE (Integrated) - TopSeller

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|----------------|----------------------|--------|----------------|
| 20DE001PUS | A6-7000 | No | R4 HD | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001DUS | A6-7000 | No | R4 HD | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001CUS | A6-7000 | No | R4 HD | 8GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001KUS | A6-7000 | No | R4 HD | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001BUS | A6-7000 | No | R4 HD | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE0017US | A6-7000 | No | R4 HD | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE001AUS | A6-7000 | No | R4 HD | 8GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE001GUS | A6-7000 | No | R4 HD | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE001RUS | A6-7000 | No | R4 HD | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win8.1 64 | 1-depot | No | 03/15 |

• For detailed platform specifications, please see [ThinkPad E455 Platform Specifications sheet](#)

| Processor | AMD Accelerated Processor A6 APU | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | |
|------------------|---|--------------------|--|---------------------|-------------|---------------------|----------|--------------|----------|---------|---|---|---------|---------|-----|------------|-------|-------|---|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Clock Speed</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Graphics</th> </tr> </thead> <tbody> <tr> <td>A6-7000</td> <td>2</td> <td>2</td> <td>2.2 GHz</td> <td>3.0 GHz</td> <td>1MB</td> <td>DDR3L-1600</td> <td>R4 HD</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | Ports | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack |
| Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | | | | | | | | | | | |
| A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | | | | | | | | | | | | |
| Graphics | AMD Radeon™ R4 HD Graphics in processor only | Monitor cable | None | | | | | | | | | | | | | | | | |
| Chipset | AMD A76M FCH Chipset | Camera | HD720p resolution, fixed focus | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | |
| Display | 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | |
| Multi-touch | None | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | ThinkLight™ | None | | | | | | | | | | | | | | | | |
| Optical | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | |
| M.2 SSD | None | Security chip | None | | | | | | | | | | | | | | | | |
| Ethernet | Realtek® RTL8111GUS Gigabit Ethernet Connection | vPro | None | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | None | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | NFC | None | | | | | | | | | | | | | | | | |
| Dimensions | None Touch(WxDxH): 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) | Battery type | Li-Ion 6-cell (47Wh) | | | | | | | | | | | | | | | | |
| Weight | From 4.00 lb (1.81kg) | Battery life | Up to 6.5 hr | | | | | | | | | | | | | | | | |
| Case color | Graphite black | AC adapter | 45-watt AC adapter (Integrated Graphics) | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | |
| | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | |
| | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | |

ThinkPad E455 20DE (Discrete) - TopSeller

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/ly) |
|------------|-----------|------|-----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|----------------|----------------------|--------|-----------------|
| 20DE001HUS | A8-7100 | No | R5 M240 | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001QUS | A8-7100 | No | R5 M240 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001MUS | A8-7100 | No | R5 M240 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001FUS | A10-7300 | No | R7 M260DX | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE0019US | A10-7300 | No | R7 M260DX | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE001EUS | A10-7300 | No | R7 M260DX | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DE0016US | A10-7300 | No | R7 M260DX | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE001JUS | A10-7300 | No | R7 M260DX | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE0018US | A8-7100 | No | R5 M240 | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE001LUS | A8-7100 | No | R5 M240 | 4GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DE001NUS | A8-7100 | No | R5 M240 | 8GBx1 | 14.0" HD | None | 1TB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win8.1 P64 | 1-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad E455 Platform Specifications sheet](#)

| Processor | AMD Accelerated Processor A8, or A10 APU | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|--------------------|--|---------------------|-------------|---------------------|------------------------|--------------|----------|---------|---|---|---------|---------|-----|------------|---------|----------|---|---|---------|---------|-----|------------------------|-------|---|
| Processor | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Clock Speed</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Graphics</th> </tr> </thead> <tbody> <tr> <td>A8-7100</td> <td>4</td> <td>4</td> <td>1.8 GHz</td> <td>3.0 GHz</td> <td>4MB</td> <td rowspan="2">DDR3L-1600</td> <td>R5 M240</td> </tr> <tr> <td>A10-7300</td> <td>4</td> <td>4</td> <td>1.9 GHz</td> <td>3.2 GHz</td> <td>4MB</td> <td>R7 M260DX (R6+R5 M240)</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | DDR3L-1600 | R5 M240 | A10-7300 | 4 | 4 | 1.9 GHz | 3.2 GHz | 4MB | R7 M260DX (R6+R5 M240) | Ports | Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack |
| Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | | | | | | | | | | | | | | | | | | |
| A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | DDR3L-1600 | R5 M240 | | | | | | | | | | | | | | | | | | | |
| A10-7300 | 4 | 4 | 1.9 GHz | 3.2 GHz | 4MB | | R7 M260DX (R6+R5 M240) | | | | | | | | | | | | | | | | | | | |
| Graphics | AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 APU | Monitor cable | None | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | AMD A76M FCH Chipset | Camera | HD720p resolution, fixed focus | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Audio support | HD Audio, Conexant [®] CX20751 codec, Dolby [®] Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | | | | | | | | |
| Display | 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio | Keyboard | 6-row, spill-resistant, multimedia Fn keys | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | UltraNav™ | TrackPoint [®] pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | None | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | None | Security chip | None | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Realtek [®] RTL8111GUS Gigabit Ethernet Connection | vPro | None | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | None | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | NFC | None | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | None Touch(WxDxH): 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) | Battery type | Li-Ion 6-cell (47Wh) | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | From 4.00 lb (1.81kg) | Battery life | Up to 6.5 hr | | | | | | | | | | | | | | | | | | | | | | | |
| Case color | Graphite black | AC adapter | 65-watt AC adapter (Discrete Graphics) | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | Preload | Some: No operating system Some: Windows [®] 7 Professional 64-bit Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | | | | |
| | | Environment | EPEAT™ Gold; ENERGY STAR [®] ; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E455 20DE (Integrated) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20DE001XUS | A6-7000 | No | R4 HD | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 07/15 |
| 20DE001UUS | A6-7000 | No | R4 HD | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 07/15 |

• For detailed platform specifications, please see [ThinkPad E455 Platform Specifications sheet](#)

| Processor | AMD Accelerated Processor A6 APU | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack None | | | | | | | | | | | | | | | | |
|------------------|---|------------------------|--|---------------------|-------------|---------------------|----------|--------------|----------|---------|---|---|---------|---------|-----|------------|-------|---------------|------|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Clock Speed</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Graphics</th> </tr> </thead> <tbody> <tr> <td>A6-7000</td> <td>2</td> <td>2</td> <td>2.2 GHz</td> <td>3.0 GHz</td> <td>1MB</td> <td>DDR3L-1600</td> <td>R4 HD</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | Monitor cable | None |
| Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | | | | | | | | | | | |
| A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | | | | | | | | | | | | |
| Graphics | AMD Radeon™ R4 HD Graphics in processor only | Camera | HD720p resolution, fixed focus | | | | | | | | | | | | | | | | |
| Chipset | AMD A76M FCH Chipset | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None | | | | | | | | | | | | | | | | |
| Display | 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | |
| Multi-touch | None | Security chip | None | | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | vPro | None | | | | | | | | | | | | | | | | |
| Optical | None | Fingerprint reader | None | | | | | | | | | | | | | | | | |
| M.2 SSD | None | NFC | None | | | | | | | | | | | | | | | | |
| Ethernet | Realtek® RTL8111GUS Gigabit Ethernet Connection | Battery type | Li-Ion 6-cell (47Wh) | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Battery life | Up to 6.5 hr | | | | | | | | | | | | | | | | |
| WLAN | <i>One of the following, configurable by model:</i> • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | AC adapter | 45-watt AC adapter (Integrated Graphics) | | | | | | | | | | | | | | | | |
| Dimensions | <i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) | Preload | <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Some:</i> Windows 10 Pro 64 | | | | | | | | | | | | | | | | |
| Weight | From 4.00 lb (1.81kg) | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | |
| Case color | Graphite black | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | |

ThinkPad E455 20DE (Discrete) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|-----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20DE001WUS | A10-7300 | No | R7 M260DX | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win10 DG Win7 | 1-depot | No | 07/15 |
| 20DE001VUS | A10-7300 | No | R7 M260DX | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | RTL bgn+BT4.0 | None | None | 720p | Keyboard | No | No | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 07/15 |

• For detailed platform specifications, please see [ThinkPad E455 Platform Specifications sheet](#)

| | | | | | | | | | |
|---------------|---|------------|--------------|-------------|---------------------|-------|--------------|------------------------|--|
| Processor | AMD Accelerated Processor A8, or A10 APU | | | | | | | | Multicard Reader Ports 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0, one USB 2.0 (Always On), Ethernet (RJ-45), HDMI, Lenovo OneLink connector, combo audio / microphone jack |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | |
| | A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | | R5 M240 | |
| | A10-7300 | 4 | 4 | 1.9 GHz | 3.2 GHz | 4MB | DDR3L-1600 | R7 M260DX (R6+R5 M240) | |
| Graphics | AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 APU | | | | | | | | Monitor cable None |
| Chipset | AMD A76M FCH Chipset | | | | | | | | Camera HD720p resolution, fixed focus |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Audio support HD Audio, Conexant [®] CX20751 codec, Dolby [®] Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack |
| Display | 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio | | | | | | | | Keyboard 6-row, spill-resistant, multimedia Fn keys |
| Multi-touch | None | | | | | | | | UltraNav™ TrackPoint [®] pointing device and multi-touch with 3+2 buttons click pad |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | ThinkLight™ None |
| Optical | None | | | | | | | | Security Power-on password, hard disk password, supervisor password, security keyhole |
| M.2 SSD | None | | | | | | | | Security chip None |
| Ethernet | Realtek [®] RTL8111GUS Gigabit Ethernet Connection | | | | | | | | vPro None |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Fingerprint reader None |
| WLAN | <i>One of the following, configurable by model:</i> • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | NFC None |
| Dimensions | <i>None Touch(WxDxH):</i> 13.34" x 9.40" x 0.94" (339mm x 239mm x 24mm) | | | | | | | | Battery type Li-Ion 6-cell (47Wh) |
| Weight | From 4.00 lb (1.81kg) | | | | | | | | Battery life Up to 6.5 hr |
| Case color | Graphite black | | | | | | | | AC adapter 65-watt AC adapter (Discrete Graphics) |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | Preload <i>Some:</i> Windows [®] 7 Professional 64 <i>Some:</i> Windows 10 Pro 64 preinstalled through downgrade rights in Windows 10 Pro 64 |
| | | | | | | | | | Limited warranty 1-year - depot repair service / service upgrades available |
| | | | | | | | | | Environment EPEAT™ Gold; ENERGY STAR [®] ; RoHS-compliant |

See footnotes for more detailed information



Lenovo® ThinkPad E460



Lenovo ThinkPad E460



Lenovo ThinkPad E460

ThinkPad E460 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|---------------|--|------------|--------------|----------------|---------------------|-------|--------------|-----------------------|--|---|--|
| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable | None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack None | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | |
| | i3-6100U | 2 | 4 | 2.3 GHz | - | 3MB | DDR3L-1600 | Intel HD Graphics 520 | | | |
| | i5-6200U | | | 2.3 GHz | 2.8 GHz | 3MB | | | | | |
| i7-6500U | 2.5 GHz | | | 3.1 GHz | 4MB | | | | | | |
| Graphics | Intel HD Graphics in processor only, or AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or AMD Radeon R7 M360 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent displays; Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | Camera Audio support | Some: HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Keyboard UltraNav™ ThinkLight™ | 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Security Security chip | Power-on password, hard disk password, supervisor password, security keyhole TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2 : Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2 | |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | vPro Fingerprint reader NFC | None Some: Fingerprint reader on the keyboard bezel, swipe sensor None | |
| Multi-touch | None | | | | | | | | Battery type Battery life AC adapter | Li-Ion 6-cell (47Wh) 6-cell (47Wh): up to 9.0 hr Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics) | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) | Some: Windows 10 Pro 64 Some: Windows 10 Home 64 • Lenovo Solution Center • Lenovo REACHit • Lenovo SHAREit • Lenovo Companion • Lenovo Settings • ThinkVantage System Update • Microsoft Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) |
| Optical | None | | | | | | | | Ethernet Bluetooth™ | Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | |
| M.2 SSD | None | | | | | | | | WLAN | One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | |
| Ethernet | Gigabit Ethernet Connection | | | | | | | | WWAN | None | |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | SIM card | None | |
| WLAN | One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | Dimensions | Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm | |
| WWAN | None | | | | | | | | Weight | From 4.23 lb (1.92kg) | |
| SIM card | None | | | | | | | | Case color | Graphite black | |
| Dimensions | Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm | | | | | | | | Case material | Aluminum: Aluminum display cover PC/ABS: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | |
| Weight | From 4.23 lb (1.92kg) | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| Case color | Graphite black | | | | | | | | Mil-Spec test | None | |
| Case material | Aluminum: Aluminum display cover PC/ABS: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | |

ThinkPad E460 20ET - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Case material | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|---------------|--------|----------|--------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20ET0014US | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM1.2 | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20ET001AUS | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | None | 192GB SSD | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM1.2 | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20ET0010US | i5-6200U | No | HD 520 | 8GBx1 | 14.0" HD | None | 192GB SSD | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM1.2 | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20ET0015US | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | None | 192GB SSD | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM1.2 | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20ET000YUS | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM1.2 | Finger | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20ET0011US | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20ET0017US | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | None | 192GB SSD | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20ET0012US | i5-6200U | No | HD 520 | 4GBx1 | 14.0" HD | None | 500GB 7200 | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20ET0016US | i5-6200U | No | HD 520 | 8GBx1 | 14.0" HD | None | 192GB SSD | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20ET0018US | i3-6100U | No | HD 520 | 4GBx1 | 14.0" HD | None | 192GB SSD | None | 3165 ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM | Finger | 6 (47wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E460 Platform Specifications sheet](#)

| | | | | | | | | | | |
|---------------|--|------------|--------------|----------------|---------------------|-------|--------------|-----------------------|--------------------|---|
| Processor | 6th Generation Intel® Core™ i3 / i5 Processor | | | | | | | | Smart Card Reader | None |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | ExpressCard | None |
| | i3-6100U | 2 | 4 | 2.3 GHz | - | 3MB | DDR3L-1600 | Intel HD Graphics 520 | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| | i5-6200U | | | 2.3 GHz | 2.8 GHz | 3MB | | | Ports | Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack |
| Graphics | Intel HD Graphics in processor only, digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Monitor cable | None |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Camera | Some: HD720p resolution, fixed focus |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys |
| Multi-touch | None | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | | ThinkLight™ | None |
| Ethernet | Gigabit Ethernet Connection | | | | | | | | Security chip | Power-on password, hard disk password, supervisor password, security keyhole TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2 |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | vPro | None |
| WLAN | One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor |
| WWAN | None | | | | | | | | NFC | None |
| SIM card | None | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) |
| Dimensions | Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm From 4.23 lb (1.92kg) | | | | | | | | Battery life | 6-cell (47Wh): up to 9.0 hr |
| Weight | Graphite black | | | | | | | | AC adapter | Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics) |
| Case color | Aluminum: Aluminum display cover | | | | | | | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 |
| Case material | PC/ABS: PC/ABS plastic display cover | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available |
| | | | | | | | | | Mil-Spec test | None |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®, RoHS-compliant |

ThinkPad E460 20ET (Radeon) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Case material | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|---------------|--------|----------|--------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20ET001BUS | i7-6500U | No | R7 M360 | 8GBx1 | 14.0" FHD | None | 192GB SSD | None | 8260 ac+BT | None | None | Aluminum | 720p | Keyboard | TPM2.0 | Finger | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20ET001CUS | i7-6500U | No | R7 M360 | 8GBx1 | 14.0" FHD | None | 500GB 7200 | None | 8260 ac+BT | None | None | Aluminum | 720p | Keyboard | TPM2.0 | Finger | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20ET0013US | i7-6500U | No | R7 M360 | 8GBx1 | 14.0" FHD | None | 500GB 7200 | None | 8260 ac+BT | None | None | Aluminum | 720p | Keyboard | TPM2.0 | Finger | 6 (47wh) | 65W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20ET0019US | i7-6500U | No | R7 M360 | 8GBx1 | 14.0" FHD | None | 192GB SSD | None | 8260 ac+BT | None | None | Aluminum | 720p | Keyboard | TPM2.0 | Finger | 6 (47wh) | 65W | Win10 DG Win7 | 1-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E460 Platform Specifications sheet](#)

| | | | | | | | | | | |
|---------------|--|-------------------------------------|--------------|----------------|---------------------|-------|--------------|--------------------|--------------------|--|
| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Smart Card Reader | None |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | ExpressCard | None |
| Graphics | AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or AMD Radeon R7 M360 Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| | Chipset | Intel SoC (System on Chip) platform | | | | | | | | Ports |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Monitor cable | None |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | Camera | Some: HD720p resolution, fixed focus |
| Multi-touch | None | | | | | | | | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys |
| Ethernet | Gigabit Ethernet Connection | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | ThinkLight™ | None |
| WLAN | One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole |
| WWAN | None | | | | | | | | Security chip | TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2 |
| SIM card | None | | | | | | | | vPro | None |
| Dimensions | Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm | | | | | | | | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor |
| Weight | From 4.23 lb (1.92kg) | | | | | | | | NFC | None |
| Case color | Graphite black | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) |
| Case material | Aluminum: Aluminum display cover PC/ABS: PC/ABS plastic display cover | | | | | | | | Battery life | 6-cell (47Wh): up to 9.0 hr |
| | | | | | | | | | AC adapter | Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics) |
| | | | | | | | | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 |
| | | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available |
| | | | | | | | | | Mil-Spec test | None |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant |



Lenovo® ThinkPad E465



Lenovo ThinkPad E465



Lenovo ThinkPad E465

ThinkPad E465 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|---------------|--|------------|--------------|-------------|---------------------|-------|--------------|------------------------|--------------------|---|---|
| Processor | AMD Accelerated Processor A6, A8, or A10 APU | | | | | | | | Smart Card Reader | None | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | ExpressCard | None | |
| | A6-8500P | 2 | 6 | 1.6 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R5 Graphics | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | |
| | A6-8500P | 2 | 6 | 1.6 GHz | 3.0 GHz | 1MB | | R5 M330 | Ports | Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack | |
| | A8-8600P | 4 | 10 | 1.6 GHz | 3.0 GHz | 2MB | | R6 M335DX (R6+R5 M330) | Monitor cable | None | |
| | A10-8700P | 4 | 10 | 1.8 GHz | 3.2 GHz | 2MB | | R6 M340DX (R6+R5 M330) | Camera | HD720p resolution, fixed focus | |
| Graphics | AMD Radeon™ R5 Graphics in processor only, or AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or Dual Graphics support for A8 and A10 APU digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display Max resolution: 1920x1080 (HDMI) @60Hz | | | | | | | | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | |
| Chipset | AMD SoC (System on Chip) platform | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | |
| Display | <i>Some:</i> 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | ThinkLight™ | None | |
| Multi-touch | None | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | | Security chip | <i>TPM2.0:</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM:</i> TPM2.0 and TPM1.2 | |
| Optical | None | | | | | | | | vPro | None | |
| M.2 SSD | None | | | | | | | | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor | |
| Ethernet | Gigabit Ethernet Connection | | | | | | | | NFC | None | |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) | |
| WLAN | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | Battery life | Up to 6.5 hr | |
| WWAN | None | | | | | | | | AC adapter | <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) | |
| SIM card | None | | | | | | | | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <ul style="list-style-type: none"> • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) | <i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows 10 Home 64 <ul style="list-style-type: none"> • Lenovo Solution Center • Lenovo REACHit • Lenovo SHAREit • Lenovo Companion • Lenovo Settings • ThinkVantage System Update • Microsoft Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) |
| Dimensions | <i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| Weight | From 4.27 lb (1.94kg) | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | |
| Case color | Graphite black | | | | | | | | | | |
| Case material | <i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | | | | | | | | | | |

ThinkPad E465 20EX (Integrated) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Case material | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|-----------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|---------------|--------|----------|--------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20EX00CUS | A6-8500P | No | R5 | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | BCM ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM1.2 | No | 6 (47wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E465 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|---------------------|---|------------|--------------|-------------|---------------------|-------|--------------|----------|--------------------------------|--|------|--|
| Processor | AMD Accelerated Processor A6 APU | | | | | | | | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack | | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | Monitor cable | None | |
| Graphics | AMD Radeon™ R5 Graphics in processor only, digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Camera Audio support | HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | |
| Chipset Memory | AMD SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Keyboard UltraNav™ ThinkLight™ | 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None | | |
| Display | <i>Some:</i> 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | Security Security chip | Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0:</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM:</i> TPM2.0 and TPM1.2 | | |
| Multi-touch | None | | | | | | | | vPro | None | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory | | | | | | | | Fingerprint reader NFC | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None | | |
| Optical | None | | | | | | | | Battery type | Li-Ion 6-cell (47Wh) | | |
| Ethernet Bluetooth™ | Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Battery life | Up to 6.5 hr | | |
| WLAN | <i>One of the following, configurable by model:</i> • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | AC adapter | <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) | | |
| WWAN | None | | | | | | | | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | |
| SIM card | None | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | | |
| Dimensions | <i>Aluminum (WxDxH):</i> 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm <i>PC/ABS (WxDxH):</i> 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | |
| Weight | From 4.27 lb (1.94kg) | | | | | | | | | | | |
| Case color | Graphite black | | | | | | | | | | | |
| Case material | <i>Aluminum:</i> Aluminum display cover <i>PC/ABS:</i> PC/ABS plastic display cover | | | | | | | | | | | |

ThinkPad E465 20EX (Discrete) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Case material | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|-----------|--------|----------|-------------|------------|---------|------------------|----------|----------|---------------|--------|----------|--------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20EX000DUS | A10-8700P | No | R6 M340DX | 8GBx1 | 14.0" HD | None | 500GB 5400 | None | BCM ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM2.0 | No | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20EX000AUS | A10-8700P | No | R6 M340DX | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | BCM ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM2.0 | No | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20EX0009US | A10-8700P | No | R6 M340DX | 8GBx1 | 14.0" HD | None | 192GB SSD | None | BCM ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM2.0 | No | 6 (47wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20EX0008US | A10-8700P | No | R6 M340DX | 4GBx1 | 14.0" HD | None | 500GB 5400 | None | BCM ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM2.0 | No | 6 (47wh) | 65W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20EX000EUS | A10-8700P | No | R6 M340DX | 8GBx1 | 14.0" HD | None | 192GB SSD | None | BCM ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM2.0 | No | 6 (47wh) | 65W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20EX000BUS | A10-8700P | No | R6 M340DX | 8GBx1 | 14.0" HD | None | 500GB 5400 | None | BCM ac+BT | None | None | PC/ABS | 720p | Keyboard | TPM2.0 | No | 6 (47wh) | 65W | Win10 DG Win7 | 1-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E465 Platform Specifications sheet](#)

| | | | | | | | | | | |
|---------------------|--|------------|--------------|-------------|---------------------|------------------------|--------------|------------------------|---|---|
| Processor | AMD Accelerated Processor A6, A8, or A10 APU | | | | | | | | Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ | 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio / microphone jack None HD720p resolution, fixed focus HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio / microphone jack 6-row, spill-resistant, multimedia Fn keys TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | |
| | A6-8500P | 2 | 6 | 1.6 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R5 M330 | | |
| | A8-8600P | 4 | 10 | 1.6 GHz | 3.0 GHz | 2MB | | R6 M335DX (R6+R5 M330) | | |
| A10-8700P | 4 | 10 | 1.8 GHz | 3.2 GHz | 2MB | R6 M340DX (R6+R5 M330) | | | | |
| Graphics | AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or Dual Graphics support for A8 and A10 APU digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Security Security chip | Power-on password, hard disk password, supervisor password, security keyhole TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2 |
| Chipset Memory | AMD SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | vPro Fingerprint reader NFC | None Some: Fingerprint reader on the keyboard bezel, swipe sensor None |
| Display | Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 14.0" (355mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | Battery type Battery life AC adapter | Li-Ion 6-cell (47Wh) Up to 6.5 hr Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics) |
| Multi-touch | None | | | | | | | | Preload | Some: No operating system Some: Windows® 7 Professional 64 Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 Some: Windows 10 Pro 64 Some: Windows 10 Home 64 |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ Some: SSHD with 8GB NAND flash memory | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available |
| Optical | None | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant |
| Ethernet Bluetooth™ | Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | |
| WLAN | One of the following, configurable by model: • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | | |
| WWAN | None | | | | | | | | | |
| SIM card | None | | | | | | | | | |
| Dimensions | Aluminum (WxDxH): 13.35" x 9.41" x 0.90"; 339mm x 239mm x 22.9mm PC/ABS (WxDxH): 13.35" x 9.41" x 0.96"; 339mm x 239mm x 24.4mm | | | | | | | | | |
| Weight | From 4.27 lb (1.94kg) | | | | | | | | | |
| Case color | Graphite black | | | | | | | | | |
| Case material | Aluminum: Aluminum display cover PC/ABS: PC/ABS plastic display cover | | | | | | | | | |



Lenovo® ThinkPad E550



Lenovo ThinkPad E550



Lenovo ThinkPad E550

ThinkPad E550 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | |
|-----------------------------|---|------------|--------------|----------------|---------------------|--------|--------------|--------------------|---|--|
| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Multicard Reader Ports Monitor cable Camera Audio support | 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector None <i>Some:</i> 0.3-megapixel, fixed focus <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | |
| | i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | | |
| | i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | | |
| | i3-5015U | 2 | 4 | 2.1 GHz | | 3MB | | HD5500 | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | | HD5500 | | |
| i7-5500U | 2 | 4 | 2.4 GHz | 3.0 GHz | 4MB | HD5500 | | | | |
| Graphics | Intel HD Graphics in processor only, or AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display Max resolution: 1920x1080 (HDMI)@60Hz | | | | | | | | Keyboard UltraNav™ ThinkLight™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None |
| Chipset Memory | Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Security chip vPro Fingerprint reader NFC | Power-on password, hard disk password, supervisor password, security keyhole <i>Some:</i> Trusted Platform Module, TCG 1.2-compliant None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | Battery type Battery life AC adapter | Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) |
| Multi-touch | <i>Some:</i> supports 10-finger gesture | | | | | | | | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) <i>Some:</i> Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ <i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows 10 Home 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions) |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory <i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel None | | | | | | | | | |
| Optical | <i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel None | | | | | | | | | |
| M.2 SSD | None | | | | | | | | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | |
| WLAN | <i>One of the following, configurable by model:</i> • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM43162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | | |
| WWAN | None | | | | | | | | | |
| SIM card | None | | | | | | | | | |
| Smart Card Read ExpressCard | None | | | | | | | | | |
| Dimensions | <i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm | | | | | | | | | |
| Weight | <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) | | | | | | | | | |
| Case color | Graphite Black | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | |
| Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | |
| Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | |

ThinkPad E550 20DF - TopSeller

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|----------------|----------------------|--------|----------------|
| 20DF0033US | i3-4005U | No | HD 4400 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | No | 6 (48wh) | 45W | Win8.1 64 | 1-depot | No | 01/15 |
| 20DF0043US | i3-4005U | No | HD 4400 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | No | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF0044US | i3-4005U | No | HD 4400 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | No | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF0045US | i3-4005U | No | HD 4400 | 8GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF0046US | i3-4005U | No | HD 4400 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF004BUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF004CUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF004DUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF004EUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF002WUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 64 | 1-depot | No | 01/15 |
| 20DF0049US | i3-5005U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF004AUS | i3-5005U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF0048US | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF0047US | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF003EUS | i3-5005U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003AUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0035US | i3-4005U | No | HD 4400 | 4GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0034US | i3-4005U | No | HD 4400 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | No | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003BUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003HUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003LUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions Weight Case color Case material | <i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--|--|---------------------|----------------|---------------------|--------------------|--------------|--------------------|----------|---|---|---------|---|-----|------------|--------|----------|---|---|---------|---|-----|--------|----------|---|---|---------|---------|-----|--------|---------------------------|---|
| Processor | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>i3-4005U</td> <td>2</td> <td>4</td> <td>1.7 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> <td>HD4400</td> </tr> <tr> <td>i3-5005U</td> <td>2</td> <td>4</td> <td>2.0 GHz</td> <td>-</td> <td>3MB</td> <td>HD5500</td> </tr> <tr> <td>i5-5200U</td> <td>2</td> <td>4</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td>HD5500</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | HD5500 | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | HD5500 | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics in processor only, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | Monitor cable | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Camera | HD720p resolution, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | Keyboard UltraNav™ ThinkLight™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | Some: supports 10-finger gesture | Security Security chip vPro Fingerprint reader NFC | Power-on password, hard disk password, supervisor password, security keyhole Some: Trusted Platform Module, TCG 1.2-compliant None Some: Fingerprint reader on the keyboard bezel, swipe sensor None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | Battery type Battery life AC adapter | Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr 45-watt AC adapter (Integrated Graphics) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.0mm high, removable None | Preload | Some: No operating system Some: Windows® 7 Professional 64 Some: Windows 8.1 64-bit Some: Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Environment | EEPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E550 20DF - TopSeller - II

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|----------------|----------------------|--------|----------------|
| 20DF003SUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" FHD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0036US | i3-4005U | No | HD 4400 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003MUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" FHD | None | 1TB 5400 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003JUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" FHD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003TUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003UUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003CUS | i3-5005U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003DUS | i3-5005U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003RUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003PUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003FUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003KUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003VUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" FHD | None | 1TB 5400 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0038US | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0037US | i3-4005U | No | HD 4400 | 8GBx1 | 15.6" HD | None | 1TB 5400 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF002YUS | i3-4005U | No | HD 4400 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003QUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003NUS | i5-5200U | No | HD 5500 | 8GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0039US | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0030US | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003GUS | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win8.1 DG Win7 | 1-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions Weight Case color Case material | <i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|--|---------------------|----------------|---------------------|--------------------|--------------|--------------------|----------|---|---|---------|---|-----|-------------|--------|----------|---|---|---------|---|-----|--------|----------|---|---|---------|---------|-----|--------|---------------------------|---|
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| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L -1600 | HD4400 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics in processor only, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | Monitor cable Camera Audio support | None HD720p resolution, fixed focus HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard UltraNav™ ThinkLight™ | 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | Security Security chip vPro Fingerprint reader | Power-on password, hard disk password, supervisor password, security keyhole Some: Trusted Platform Module, TCG 1.2-compliant None Some: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | Some: supports 10-finger gesture | NFC | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | Battery type Battery life AC adapter | Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr 45-watt AC adapter (Integrated Graphics) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical M.2 SSD | DVD burner, 9.0mm high, removable None | Preload | Some: No operating system Some: Windows® 7 Professional 64 Some: Windows 8.1 Pro 64-bit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet Bluetooth™ | Intel WGI218V Gigabit Ethernet Connection Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Limited warranty | preinstalled through downgrade rights in Windows 8.1 Pro 64-bit 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | Environment | EPPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E550 20DF (Radeon) - TopSeller

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|------|---------------------|-------------------|----------------------|----------------|----------------------|--------|----------------|
| 20DF002XUS | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" HD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 P64 | 1-depot | No | 01/15 |
| 20DF0042US | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" FHD | None | 1TB 5400 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003XUS | i7-5500U | No | R7 M260 | 4GBx1 | 15.6" FHD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0041US | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" FHD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0040US | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003YUS | i7-5500U | No | R7 M260 | 4GBx1 | 15.6" FHD | None | 1TB 5400 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0031US | i7-5500U | No | R7 M260 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF0032US | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" HD | None | 128GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |
| 20DF003WUS | i7-5500U | No | R7 M260 | 4GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win8.1 DG Win7 | 1-depot | No | 01/15 |

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | | | | |
|-------------|---|------------|--------------|----------------|---------------------|-------|--------------|--------------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | | Dimensions | <i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm | | | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Weight | <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) | | | | | | | | | | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | HD5500 | Case color | Graphite Black | | | | | | | | | | | |
| | i7-5500U | 2 | 4 | 2.4 GHz | 3.0 GHz | 4MB | | HD5500 | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | |
| Graphics | AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | |
| | | | | | | | | | | Ports | Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | | Monitor cable | None | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | Camera | HD720p resolution, fixed focus | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio | | | | | | | | | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | |
| | Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | | | | | | | | |
| Multi-touch | Some: supports 10-finger gesture | | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable | | | | | | | | | ThinkLight™ | None | | | | | | | | | | |
| | Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ | | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | |
| Optical | Some: Hybrid drive with 8GB NAND flash memory | | | | | | | | | Security chip | None | | | | | | | | | | |
| | DVD burner, 9.0mm high, removable | | | | | | | | | vPro | None | | | | | | | | | | |
| M.2 SSD | None | | | | | | | | | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | | | | | | | | | NFC | None | | | | | | | | | | |
| | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) | | | | | | | | | | |
| Bluetooth™ | | | | | | | | | | Battery life | 6-cell (48Wh): up to 9.0 hr | | | | | | | | | | |
| | | | | | | | | | | AC adapter | 65-watt AC adapter (Discrete Graphics) | | | | | | | | | | |
| WLAN | One of the following, configurable by model: | | | | | | | | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit | | | | | | | | | | |
| | • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | |
| | • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E550 20DF - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|-----|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20DF00C0US | i3-4005U | No | HD 4400 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 07/15 |
| 20DF00BXUS | i3-4005U | No | HD 4400 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 07/15 |
| 20DF00C2US | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 07/15 |
| 20DF00C4US | i5-5200U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 07/15 |
| 20DF00CQUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20DF00EDUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 0.3M | Numpad | TPM | No | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20DF00EGUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 192GB SSD | DVD±RW | 3160 ac+BT4.0 | None | None | 0.3M | Numpad | TPM | No | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 08/15 |
| 20DF00EEUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 0.3M | Numpad | TPM | No | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 08/15 |
| 20DF00EFUS | i3-5005U | No | HD 5500 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3160 ac+BT4.0 | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 08/15 |

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

| Processor | 4th or 5th Generation Intel® Core™ i3 / i5 / i7 Processor | Dimensions | <i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|--------------------|--|--|----------------|---------------------|--------------------|--------------|--------------------|----------|---|---|---------|---|-----|------------|--------|----------|---|---|---------|---|-----|--------|----------|---|---|---------|---------|-----|--------|--------|---|--|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>i3-4005U</td> <td>2</td> <td>4</td> <td>1.7 GHz</td> <td>-</td> <td>3MB</td> <td rowspan="3">DDR3L-1600</td> <td>HD4400</td> </tr> <tr> <td>i3-5005U</td> <td>2</td> <td>4</td> <td>2.0 GHz</td> <td>-</td> <td>3MB</td> <td>HD5500</td> </tr> <tr> <td>i5-5200U</td> <td>2</td> <td>4</td> <td>2.2 GHz</td> <td>2.7 GHz</td> <td>3MB</td> <td>HD5500</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | HD5500 | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | HD5500 | Weight | <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) | |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-4005U | 2 | 4 | 1.7 GHz | - | 3MB | DDR3L-1600 | HD4400 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i3-5005U | 2 | 4 | 2.0 GHz | - | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | | HD5500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case color | Graphite Black | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | Intel HD Graphics in processor only, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Ports | Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Monitor cable | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | Camera | Some: 0.3-megapixel, fixed focus Some: HD720p resolution, fixed focus Some: 3D camera, Intel RealSense™ 3D Camera with MIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | Some: supports 10-finger gesture | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | DVD burner, 9.0mm high, removable | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.2 SSD | None | ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | Security chip | TPM : Trusted Platform Module, TCG 1.2-compliant Soft : Software TPM enabled | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | vPro | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | NFC | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery type | Li-Ion 6-cell (48Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery life | 6-cell (48Wh): up to 9.0 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 45-watt AC adapter (Integrated Graphics) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Preload | Some: Windows® 7 Professional 64 | Some: Windows 10 Pro 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E550 20DF (Radeon) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Type-model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20DF00C3US | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | None | Finger | 6 (48wh) | 65W | Win10 DG Win7 | 1-depot | No | 07/15 |
| 20DF00BYUS | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | Soft | Finger | 6 (48wh) | 65W | Win10 P64 | 1-depot | No | 07/15 |
| 20DF00C1US | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" FHD | None | 192GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 720p | Numpad | Soft | Finger | 6 (48wh) | 65W | Win10 P64 | 1-depot | No | 07/15 |
| 20DF00CAUS | i7-5500U | No | R7 M260 | 8GBx1 | 15.6" FHD | None | 192GB SSD | DVD±RW | 7265 ac+BT4.0 | None | None | 3D | Numpad | Soft | Finger | 6 (48wh) | 65W | Win10 P64 | 1-depot | No | 07/15 |

• For detailed platform specifications, please see [ThinkPad E550 Platform Specifications sheet](#)

| | | | | | | | | | | | | |
|-------------|---|------------|--------------|----------------|---------------------|-------|--------------|--------------------|--------------------|--|--|--|
| Processor | 5th Generation Intel® Core™ i3 / i5 / i7 Processor | | | | | | | | Dimensions | <i>None Touch(WxDxH):</i> 14.84" x 10.08" x 1.06"; 377mm x 256mm x 27mm | | |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | Weight | <i>6-cell None Touch:</i> from 5.21 lb (2.35kg) | | |
| | i5-5200U | 2 | 4 | 2.2 GHz | 2.7 GHz | 3MB | DDR3L-1600 | HD5500 | Case color | Graphite Black | | |
| | i7-5500U | 2 | 4 | 2.4 GHz | 3.0 GHz | 4MB | | HD5500 | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | |
| Graphics | AMD Radeon R7 M260 Graphics, 2GB DDR3 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Ports | Two USB 3.0 (one Always On), one USB 2.0, Ethernet (RJ-45), external monitor (VGA DB-15, HDMI), Lenovo OneLink connector | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Monitor cable | None | | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | Camera | <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC | | |
| Multi-touch | <i>Some:</i> supports 10-finger gesture | | | | | | | | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | |
| Optical | DVD burner, 9.0mm high, removable | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | |
| M.2 SSD | None | | | | | | | | ThinkLight™ | None | | |
| Ethernet | Intel WGI218V Gigabit Ethernet Connection | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Security chip | <i>TPM</i> : Trusted Platform Module, TCG 1.2-compliant <i>Soft</i> : Software TPM enabled | | |
| WLAN | <i>One of the following, configurable by model:</i> • Intel Wireless-AC 3160, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | vPro | None | | |
| WWAN | None | | | | | | | | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor | | |
| SIM card | None | | | | | | | | NFC | None | | |
| | | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) | | |
| | | | | | | | | | Battery life | 6-cell (48Wh): up to 9.0 hr | | |
| | | | | | | | | | AC adapter | 65-watt AC adapter (Discrete Graphics) | | |
| | | | | | | | | | Preload | <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 <i>Some:</i> Windows 10 Pro 64 | | |
| | | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | | |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | |

See footnotes for more detailed information



Lenovo® ThinkPad E555



Lenovo ThinkPad E555



Lenovo ThinkPad E555

ThinkPad E555 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | |
|------------------|--|------------|--------------|-------------|---------------------|------------------------|--------------|------------------------|--|---|
| Processor | AMD Accelerated Processor A6, A8, A10, or FX APU | | | | | | | | Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload | 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None HD720p resolution, fixed focus HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole None None None None Li-Ion 6-cell (48Wh) Up to 6.3 hr Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics) Some: No operating system Some: Windows® 7 Professional 64 reinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) Some: Windows 7 Professional preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ Some: Windows 10 Pro 64 Some: Windows 10 Home 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • McAfee LiveSafe (30 days of virus definitions) |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | |
| | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | | |
| | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | | R5 M240 | | |
| | A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | | R5 HD | | |
| | A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | | R5 M240 | | |
| | A10-7300 | 4 | 4 | 1.9 GHz | 3.2 GHz | 4MB | | R7 M260DX (R6+R5 M240) | | |
| FX-7500 | 4 | 4 | 2.1 GHz | 3.3 GHz | 4MB | R7 M265DX (R7+R5 M240) | | | | |
| Graphics | AMD Radeon™ R4 or R5 HD Graphics in processor only, AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 and FX APU external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display | | | | | | | | | |
| Chipset | AMD A76M FCH Chipset | | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio | | | | | | | | | |
| Multi-touch | None | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | | | | | | | | | |
| Optical | Some: DVD burner, 9.0mm high, fixed Some: Blank Bezel | | | | | | | | | |
| M.2 SSD | None | | | | | | | | | |
| Ethernet | Realtek® RTL8111GUS Gigabit Network Connection | | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | |
| WLAN | One of the following, configurable by model: • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM943162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | | |
| WWAN | None | | | | | | | | | |
| SIM card | None | | | | | | | | | |
| Smart Card Read | None | | | | | | | | | |
| ExpressCard | None | | | | | | | | | |
| Dimensions | All (WxDxH): 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm) | | | | | | | | | |
| Weight | From 5.20 lb (2.36kg) | | | | | | | | | |
| Case color | Graphite black | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | |
| Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | |
| Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | |

See footnotes for more detailed information

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ThinkPad E555 20DH (AMD) - TopSeller

Product Specifications Reference (PSREF)

| Type-model | Processor | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | Finger print reader | Battery cells(wh) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|----------|--------|----------|-----------|---------|------------------|----------|----------|--------|----------|---------------------|-------------------|----------------|----------------------|--------|----------------|
| 20DH0028US | A6-7000 | R4 HD | 4GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002EUS | A6-7000 | R4 HD | 8GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002GUS | A8-7100 | R5 HD | 8GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002FUS | A8-7100 | R5 HD | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002BUS | A8-7100 | R5 HD | 8GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002LUS | A6-7000 | R4 HD | 8GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002RUS | A6-7000 | R4 HD | 8GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002HUS | A8-7100 | R5 HD | 8GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002MUS | A8-7100 | R5 HD | 4GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002DUS | A6-7000 | R4 HD | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002QUS | A6-7000 | R4 HD | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002SUS | A8-7100 | R5 HD | 4GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002JUS | A6-7000 | R4 HD | 8GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002AUS | A6-7000 | R4 HD | 4GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002UUS | A8-7100 | R5 HD | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002KUS | A8-7100 | R5 HD | 8GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH0030US | A6-7000 | R4 HD | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 64 | 1-Depot | No | 03/15 |

• For detailed platform specifications, please see [ThinkPad E555 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | |
|---------------|---|------------|--------------|-------------|---------------------|-------|--------------|---------------|---|---|-------------------------------------|---------------------------------|--|--|
| Processor | AMD Accelerated Processor A6, A8 APU | | | | | | | | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack | | | | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | Monitor cable | None | | | |
| | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | | Camera | HD720p resolution, fixed focus | | | |
| A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | R5 HD | | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | |
| Graphics | AMD Radeon™ R4 or R5 HD Graphics in processor only | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | | |
| Chipset | AMD A76M FCH Chipset | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | ThinkLight™ | None | | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | Security chip | None | | | | |
| Optical | <i>Some:</i> DVD burner, 9.0mm high, fixed <i>Some:</i> Blank Bezel | | | | | | | | vPro | None | | | | |
| M.2 SSD | None | | | | | | | | Fingerprint reader | None | | | | |
| Ethernet | Realtek® RTL8111GUS Gigabit Network Connection | | | | | | | | NFC | None | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) | | | | |
| WLAN | RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | Battery life | Up to 6.3 hr | | | | |
| WWAN | None | | | | | | | | AC adapter | 45-watt AC adapter (Integrated Graphics) | | | | |
| SIM card | None | | | | | | | | Preload | <i>Some:</i> No operating system | | <i>Some:</i> Windows 8.1 64-bit | | |
| Dimensions | <i>All (WxDxH):</i> 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm) | | | | | | | | <i>Some:</i> Windows® 7 Professional 64 | | <i>Some:</i> Windows 8.1 Pro 64-bit | | | |
| Weight | From 5.20 lb (2.36kg) | | | | | | | | preinstalled through downgrade rights in Windows 8.1 Pro 64-bit | | | | | |
| Case color | Graphite black | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | |

See footnotes for more detailed information

ThinkPad E555 20DH (AMD) - Discrete (TopSeller)

Product Specifications Reference (PSREF)

| Type-model | Processor | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | Finger print reader | Battery cells(wh) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|-----------|--------|-----------|------------|---------|------------------|----------|----------|--------|----------|---------------------|-------------------|----------------|----------------------|--------|----------------|
| 20DH002PUS | A10-7300 | R7 M260DX | 4GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH002CUS | A10-7300 | R7 M260DX | 8GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH0029US | A10-7300 | R7 M260DX | 8GBx1 | 15.6" HD | 1TB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002NUS | A10-7300 | R7 M260DX | 4GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 01/15 |
| 20DH002TUS | A10-7300 | R7 M260DX | 4GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 01/15 |
| 20DH0031US | A10-7300 | R7 M260DX | 8GBx1 | 15.6" FHD | 500GB 7200 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 P64 | 1-Depot | No | 03/15 |
| 20DH002YUS | A6-7000 | R5 M240 | 4GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win8.1 DG Win7 | 1-Depot | No | 03/15 |

• For detailed platform specifications, please see [ThinkPad E555 Platform Specifications sheet](#)

| | | | | | | | | | | |
|------------|--|------------|--------------|-------------|---------------------|-------|--------------|--|---|------------------------------|
| Processor | AMD Accelerated Processor A6, A8, A10, or FX APU | | | | | | | Dimensions | All (WxDxH): 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm) | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Weight | From 5.20 lb (2.36kg) | |
| | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | Case color | Graphite black | |
| | A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | |
| | A10-7300 | 4 | 4 | 1.9 GHz | 3.2 GHz | 4MB | | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | |
| FX-7500 | 4 | 4 | 2.1 GHz | 3.3 GHz | 4MB | Ports | | Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack | | |
| Graphics | AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 and FX APU | | | | | | | Monitor cable | None | |
| Chipset | AMD A76M FCH Chipset | | | | | | | Camera | HD720p resolution, fixed focus | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | Audio support | HD Audio, Conexant [®] CX20751 codec, Dolby [®] Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™ Some: Hybrid drive with 8GB NAND flash memory | | | | | | | UltraNav™ | TrackPoint [®] pointing device and multi-touch with 3+2 buttons click pad | |
| Optical | Some: DVD burner, 9.0mm high, fixed Some: Blank Bezel | | | | | | | ThinkLight™ | None | |
| M.2 SSD | None | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Ethernet | Realtek [®] RTL8111GUS Gigabit Network Connection | | | | | | | Security chip | None | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | vPro | None | |
| WLAN | One of the following, configurable by model: • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM943162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | Fingerprint reader | None | |
| WWAN | None | | | | | | | NFC | None | |
| SIM card | None | | | | | | | Battery type | Li-Ion 6-cell (48Wh) | |
| | | | | | | | | Battery life | Up to 6.3 hr | |
| | | | | | | | | AC adapter | 65-watt AC adapter (Discrete Graphics) | |
| | | | | | | | | Preload | Some: No operating system | Some: Windows 8.1 64-bit |
| | | | | | | | | | Some: Windows [®] 7 Professional 64 | Some: Windows 8.1 Pro 64-bit |
| | | | | | | | | | preinstalled through downgrade rights in Windows 8.1 Pro 64-bit | |
| | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR [®] ; RoHS-compliant | |

ThinkPad E555 20DH (AMD) - TopSeller (Windows 10)

Product Specifications Reference (PSREF)

| Type-model | Processor | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | Finger print reader | Battery cells(wh) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|----------|--------|----------|-----------|---------|------------------|----------|----------|--------|----------|---------------------|-------------------|---------------|----------------------|--------|----------------|
| 20DH003AUS | A6-7000 | R4 HD | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 07/15 |
| 20DH003CUS | A6-7000 | R4 HD | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win10 P64 | 1-Depot | No | 07/15 |

• For detailed platform specifications, please see [ThinkPad E555 Platform Specifications sheet](#)

| | | | | | | | | | | | | | | | | | | |
|---------------|---|------------|--------------|-------------|---------------------|-------|--------------|---------------|---|---|--------------------------------|--|--|--------------------------------|--|--|--|--|
| Processor | AMD Accelerated Processor A6, A8 APU | | | | | | | | Multicard Reader Ports | 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack | | | | | | | | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | Monitor cable | None | | | | | | | |
| | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R4 HD | | Camera | HD720p resolution, fixed focus | | | | | | | |
| A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | R5 HD | | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | |
| Graphics | AMD Radeon™ R4 or R5 HD Graphics in processor only | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | | | | | | |
| Chipset | AMD A76M FCH Chipset | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | ThinkLight™ | None | | | | | | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | Security chip | None | | | | | | | | |
| Optical | <i>Some:</i> DVD burner, 9.0mm high, fixed <i>Some:</i> Blank Bezel | | | | | | | | vPro | None | | | | | | | | |
| M.2 SSD | None | | | | | | | | Fingerprint reader | None | | | | | | | | |
| Ethernet | Realtek® RTL8111GUS Gigabit Network Connection | | | | | | | | NFC | None | | | | | | | | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) | | | | AC adapter | | | | |
| WLAN | RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | Battery life | Up to 6.3 hr | | | | | | | | |
| WWAN | None | | | | | | | | AC adapter | 45-watt AC adapter (Integrated Graphics) | | | | | | | | |
| SIM card | None | | | | | | | | Preload | <i>Some:</i> Windows® 7 Professional 64 | | | | <i>Some:</i> Windows 10 Pro 64 | | | | |
| Dimensions | <i>All (WxDxH):</i> 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm) | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | |
| Weight | From 5.20 lb (2.36kg) | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | |
| Case color | Graphite black | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | | | | | | | | | | | | | | | | | |

See footnotes for more detailed information

ThinkPad E555 20DH (AMD) - Discrete (TopSeller) - Windows 10

Product Specifications Reference (PSREF)

| Type-model | Processor | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | Finger print reader | Battery cells(wh) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|-----------|--------|----------|------------|---------|------------------|----------|----------|--------|----------|---------------------|-------------------|---------------|----------------------|--------|----------------|
| 20DH0039US | A10-7300 | R7 M260DX | 4GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win10 P64 | 1-Depot | No | 07/15 |
| 20DH003BUS | A10-7300 | R7 M260DX | 4GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | RTL bgn+BT | No | No | 720p | Numpad | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 07/15 |

• For detailed platform specifications, please see [ThinkPad E555 Platform Specifications sheet](#)

| | | | | | | | | | | | |
|------------|---|------------|--------------|-------------|---------------------|------------------------|--------------|------------------------|--|---|--|
| Processor | AMD Accelerated Processor A6, A8, A10, or FX APU | | | | | | | | Dimensions | All (WxDxH): 14.84" x 10.04" x 1.07" (377mm x 255mm x 27.1mm) | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | Weight | From 5.20 lb (2.36kg) | |
| | A6-7000 | 2 | 2 | 2.2 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R5 M240 | Case color | Graphite black | |
| | A8-7100 | 4 | 4 | 1.8 GHz | 3.0 GHz | 4MB | | R5 M240 | Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic | |
| | A10-7300 | 4 | 4 | 1.9 GHz | 3.2 GHz | 4MB | | R7 M260DX (R6+R5 M240) | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | |
| FX-7500 | 4 | 4 | 2.1 GHz | 3.3 GHz | 4MB | R7 M265DX (R7+R5 M240) | | Ports | Two USB 3.0 (one Always On), one USB 2.0, VGA DB-15, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack | | |
| | | | | | | | | | Monitor cable | None | |
| Graphics | AMD Radeon R5 M240 Graphics, 2GB DDR3 memory, or Dual Graphics support for A10 and FX APU | | | | | | | | Camera | HD720p resolution, fixed focus | |
| Chipset | AMD A76M FCH Chipset | | | | | | | | Audio support | HD Audio, Conexant® CX20751 codec, Dolby® Advanced Audio™ v4 / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | |
| Memory | 16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, 200 nits <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, 220 nits | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, Active Protection System™ <i>Some:</i> Hybrid drive with 8GB NAND flash memory | | | | | | | | ThinkLight™ | None | |
| Optical | <i>Some:</i> DVD burner, 9.0mm high, fixed <i>Some:</i> Blank Bezel | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| M.2 SSD | None | | | | | | | | Security chip | None | |
| Ethernet | Realtek® RTL8111GUS Gigabit Network Connection | | | | | | | | vPro | None | |
| Bluetooth™ | Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Fingerprint reader | None | |
| WLAN | <i>One of the following, configurable by model:</i> • RTL8723BE, Realtek 11b/g/n, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • BCM943162, Broadcom 11-AC, 1x1, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | NFC | None | |
| WWAN | None | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) | |
| SIM card | None | | | | | | | | Battery life | Up to 6.3 hr | |
| | | | | | | | | | AC adapter | 65-watt AC adapter (Discrete Graphics) | |
| | | | | | | | | | Preload | <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 10 Pro 64 preinstalled through downgrade rights in Windows 10 Pro 64 | |
| | | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | |



Lenovo® ThinkPad E560



Lenovo ThinkPad E560



Lenovo ThinkPad E560

ThinkPad E560 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | |
|--|---|------------|--------------|----------------|---------------------|-------|--------------|-----------------------|--|--|
| Processor | 6th Generation Intel® Core™ i3 / i5 / i7 Processor and Celeron Processor | | | | | | | | Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable Camera Audio support Keyboard UltraNav™ ThinkLight™ Security Security chip vPro Fingerprint reader NFC Battery type Battery life AC adapter Preload Limited warranty Mil-Spec test Environment | None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack 6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None Power-on password, hard disk password, supervisor password, security keyhole <i>TPM2.0 :</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM :</i> TPM2.0 and TPM1.2 None <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor None Li-Ion 6-cell (48Wh) 6-cell (48Wh): up to 9.0 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) <i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows 10 Home 64 • Lenovo Solution Center • Lenovo REACHit • Lenovo SHAREit • Lenovo Companion • Lenovo Settings • ThinkVantage System Update • Microsoft Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) 1-year - depot repair service / service upgrades available None EPEAT™ Gold; ENERGY STAR®; RoHS-compliant |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | |
| | Cel 3855U | 2 | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | Intel HD Graphics 510 | | |
| | i3-6100U | 2 | 4 | 2.3 GHz | - | 3MB | | Intel HD Graphics 520 | | |
| | i5-6200U | | | 2.3 GHz | 2.8 GHz | 3MB | | | | |
| i7-6500U | 2.5 GHz | | | 3.1 GHz | 4MB | | | | | |
| Graphics | Intel HD Graphics in processor only, or AMD Radeon R7 M370 Graphics, 2GB GDDR5 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent displays; Max resolution: 1920x1080 (HDMI)@60Hz | | | | | | | | | |
| Chipset Memory | Intel SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | | |
| Multi-touch | None | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel | | | | | | | | | |
| Optical | None | | | | | | | | | |
| M.2 SSD | None | | | | | | | | | |
| Ethernet Bluetooth™ | Gigabit Ethernet Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | |
| WLAN | <i>One of the following, configurable by model:</i> • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | | |
| WWAN | None | | | | | | | | | |
| SIM card | None | | | | | | | | | |
| Dimensions Weight Case color Case material | <i>All (WxDxH):</i> 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm From 5.39 lb (2.45kg) Graphite Black PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | | | | | | | | | |

ThinkPad E560 20EV - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|----------|-------------|------------|---------|------------------|----------|----------|--------|----------|--------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20EV002LUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002PUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | None | 192GB SSD | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002MUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | None | 192GB SSD | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002NUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002QUS | i5-6200U | No | HD 520 | 8GBx1 | 15.6" HD | None | 192GB SSD | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM | Finger | 6 (48wh) | 45W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002FUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM1.2 | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20EV002EUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | None | 192GB SSD | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM1.2 | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20EV002HUS | i5-6200U | No | HD 520 | 8GBx1 | 15.6" HD | None | 192GB SSD | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM1.2 | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20EV002DUS | i3-6100U | No | HD 520 | 4GBx1 | 15.6" HD | None | 500GB 7200 | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM1.2 | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20EV002GUS | i5-6200U | No | HD 520 | 4GBx1 | 15.6" HD | None | 192GB SSD | DVD±RW | 3165 ac+BT | None | None | 720p | Numpad | TPM1.2 | Finger | 6 (48wh) | 45W | Win10 DG Win7 | 1-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E560 Platform Specifications sheet](#)

| | | | | | | | | | | |
|---------------|--|------------|--------------|--------------------|---------------------|------------|--------------|-----------------------|--|---|
| Processor | 6th Generation Intel® Core™ i3 / i5 Processor and Celeron Processor | | | | | | | | Smart Card Reader ExpressCard Multicard Reader Ports Monitor cable | None None 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack None |
| | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | |
| | Cel 3855U | 2 | 2 | 1.6 GHz | - | 2MB | DDR3L-1600 | Intel HD Graphics 510 | | |
| | i3-6100U i5-6200U | 2 | 4 | 2.3 GHz 2.3 GHz | - 2.8 GHz | 3MB 3MB | | Intel HD Graphics 520 | | |
| Graphics | Intel HD Graphics in processor only, or external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | | | | | | | | Camera | Some: HD720p resolution, fixed focus Some: 3D camera, Intel RealSense™ 3D Camera with MIC |
| Chipset | Intel SoC (System on Chip) platform | | | | | | | | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | UltraNav™ TrackPoint® ThinkLight™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad None |
| Multi-touch | None | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ | | | | | | | | Security chip | TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2 |
| Optical | Some: SSHD with 8GB NAND flash memory Some: DVD burner, 9.0mm high, removable Some: Blank Bezel | | | | | | | | vPro | None |
| Ethernet | Gigabit Ethernet Connection | | | | | | | | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | NFC | None |
| WLAN | One of the following, configurable by model: • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) |
| WWAN | None | | | | | | | | Battery life | 6-cell (48Wh): up to 9.0 hr |
| SIM card | None | | | | | | | | AC adapter | Some: 45-watt AC adapter (Integrated Graphics) Some: 65-watt AC adapter (Discrete Graphics) |
| Dimensions | All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm | | | | | | | | Preload | Some: No operating system Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 |
| Weight | From 5.39 lb (2.45kg) | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available |
| Case color | Graphite Black | | | | | | | | Mil-Spec test | None |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant |

ThinkPad E560 20EV (Radeon) - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | vPro | Graphics | Memory | Display | Multi-touch | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Power adapter (watt) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|------|----------|--------|-----------|-------------|------------|---------|------------------|----------|----------|--------|----------|--------|---------------------|-------------------|----------------------|---------------|----------------------|--------|----------------|
| 20EV0027US | i7-6500U | No | R7 M370 | 8GBx1 | 15.6" FHD | None | 192GB SSD | DVD±RW | 8260 ac+BT | None | None | 3D | Numpad | TPM2.0 | Finger | 6 (48wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002SUS | i7-6500U | No | R7 M370 | 8GBx1 | 15.6" FHD | None | 192GB SSD | DVD±RW | 8260 ac+BT | None | None | 720p | Numpad | TPM2.0 | Finger | 6 (48wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002RUS | i7-6500U | No | R7 M370 | 8GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 8260 ac+BT | None | None | 720p | Numpad | TPM2.0 | Finger | 6 (48wh) | 65W | Win10 P64 | 1-depot | No | 11/15 |
| 20EV002JUS | i7-6500U | No | R7 M370 | 8GBx1 | 15.6" FHD | None | 500GB 7200 | DVD±RW | 8260 ac+BT | None | None | 720p | Numpad | TPM2.0 | Finger | 6 (48wh) | 65W | Win10 DG Win7 | 1-depot | No | 11/15 |
| 20EV002KUS | i7-6500U | No | R7 M370 | 8GBx1 | 15.6" FHD | None | 192GB SSD | DVD±RW | 8260 ac+BT | None | None | 720p | Numpad | TPM2.0 | Finger | 6 (48wh) | 65W | Win10 DG Win7 | 1-depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E560 Platform Specifications sheet](#)

| Processor | 6th Generation Intel® Core™ i5 / i7 Processor | Smart Card Reader | None | | | | | | | | | | | | | | | | | | | | |
|------------------|---|--------------------|--|---------------------|----------------|---------------------|-----------------------|--------------|--------------------|----------|---|---|---------|---------|-----|------------|-----------------------|----------|---------|---------|-----|-------------|------|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Processor Graphics</th> </tr> </thead> <tbody> <tr> <td>i5-6200U</td> <td rowspan="2">2</td> <td rowspan="2">4</td> <td>2.3 GHz</td> <td>2.8 GHz</td> <td>3MB</td> <td rowspan="2">DDR3L-1600</td> <td rowspan="2">Intel HD Graphics 520</td> </tr> <tr> <td>i7-6500U</td> <td>2.5 GHz</td> <td>3.1 GHz</td> <td>4MB</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | i5-6200U | 2 | 4 | 2.3 GHz | 2.8 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 520 | i7-6500U | 2.5 GHz | 3.1 GHz | 4MB | ExpressCard | None |
| Processor Number | # of Cores | # of Threads | Base Frequency | Max Turbo Frequency | Cache | Memory Types | Processor Graphics | | | | | | | | | | | | | | | | |
| i5-6200U | 2 | 4 | 2.3 GHz | 2.8 GHz | 3MB | DDR3L-1600 | Intel HD Graphics 520 | | | | | | | | | | | | | | | | |
| i7-6500U | | | 2.5 GHz | 3.1 GHz | 4MB | | | | | | | | | | | | | | | | | | |
| | | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | |
| | | Monitor cable | None | | | | | | | | | | | | | | | | | | | | |
| Graphics | AMD Radeon R7 M370 Graphics, 2GB GDDR5 memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | Camera | <i>Some:</i> HD720p resolution, fixed focus <i>Some:</i> 3D camera, Intel RealSense™ 3D Camera with MIC | | | | | | | | | | | | | | | | | | | | |
| Chipset | Intel SoC (System on Chip) platform | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers or JBL speakers, 2W x 2 / dual array microphone, combo audio / microphone jack | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | | | | | | | | | | | | | | | | | | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | |
| Optical | <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel | Security chip | <i>TPM2.0:</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM:</i> TPM2.0 and TPM1.2 | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Ethernet Connection | vPro | None | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | |
| WLAN | <i>One of the following, configurable by model:</i> • Intel Dual Band Wireless-AC 3165, 1x1, Wi-Fi + BT combo adapter, M.2 Card • Intel Dual Band Wireless-AC 8260, 2x2, Wi-Fi + BT combo adapter, M.2 Card | NFC | None | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | Battery type | Li-Ion 6-cell (48Wh) | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | Battery life | 6-cell (48Wh): up to 9.0 hr | | | | | | | | | | | | | | | | | | | | |
| Dimensions | <i>All (WxDxH):</i> 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm | AC adapter | <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) | | | | | | | | | | | | | | | | | | | | |
| Weight | From 5.39 lb (2.45kg) | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 <i>Some:</i> Windows 10 Pro 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | |
| Case color | Graphite Black | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | Mil-Spec test | None | | | | | | | | | | | | | | | | | | | | |
| | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | |



Lenovo® ThinkPad E565



Lenovo ThinkPad E565



Lenovo ThinkPad E565

ThinkPad E565 Platform Specifications

Product Specifications Reference (PSREF)

| | | | | | | | | | | | |
|---------------|--|------------|--------------|-------------|---------------------|------------------------|--------------|------------------------|--|---|--|
| Processor | AMD Accelerated Processor A6, A8, A10, or FX APU | | | | | | | | Smart Card Reader | None | |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | ExpressCard | None | |
| | A6-8500P | 2 | 6 | 1.6 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R5 Graphics | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | |
| | A8-8600P | 4 | 10 | 1.6 GHz | 3.0 GHz | 2MB | | R6 Graphics | Ports | Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack | |
| | A8-8600P | 4 | 10 | 1.6 GHz | 3.0 GHz | 2MB | | R6 M335DX (R6+R5 M330) | Monitor cable | None | |
| | A10-8700P | 4 | 10 | 1.8 GHz | 3.2 GHz | 2MB | | R6 M340DX (R6+R5 M330) | Camera | HD720p resolution, fixed focus | |
| FX-8800P | 4 | 12 | 2.1 GHz | 3.4 GHz | 2MB | R8 M350DX (R7+R5 M330) | | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | |
| Graphics | AMD Radeon™ R5 or R6 Graphics in processor only, or AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or Dual Graphics support for A8, A10 and FX APU external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | |
| Chipset | AMD SoC (System on Chip) platform | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | ThinkLight™ | None | |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole | |
| Multi-touch | None | | | | | | | | Security chip | TPM2.0: Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM: TPM2.0 and TPM1.2 | |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel | | | | | | | | vPro | None | |
| Optical | None | | | | | | | | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor | |
| M.2 SSD | None | | | | | | | | NFC | None | |
| Ethernet | Gigabit Network Connection | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) | |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Battery life | Up to 6.5 hr <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) | |
| WLAN | <i>One of the following, configurable by model:</i> • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | AC adapter | <i>Some:</i> 45-watt AC adapter (Integrated Graphics) <i>Some:</i> 65-watt AC adapter (Discrete Graphics) | |
| WWAN | None | | | | | | | | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) | <i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows 10 Home 64 • Lenovo Solution Center • Lenovo REACHit • Lenovo SHAREit • Lenovo Companion • Lenovo Settings • ThinkVantage System Update • Microsoft Office preloaded; purchase a product key to activate • McAfee® Live Safe (30-day trial) |
| SIM card | None | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available | |
| Dimensions | <i>All (WxDxH):</i> 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | |
| Weight | From 5.46 lb (2.48kg) | | | | | | | | | | |
| Case color | Graphite black | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | | | | | | | | | | |

ThinkPad E565 20EY - TopSeller

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|----------|--------|----------|-----------|---------|------------------|----------|----------|--------|----------|--------|---------------------|-------------------|---------------|----------------------|--------|----------------|
| 20EY000AUS | A6-8500P | R5 | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM1.2 | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 11/15 |
| 20EY0008US | A6-8500P | R5 | 8GBx1 | 15.6" HD | 500G 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM1.2 | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 11/15 |
| 20EY000KUS | A6-8500P | R5 | 4GBx1 | 15.6" HD | 500G 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM | No | 6(48wh) | Win10 P64 | 1-Depot | No | 11/15 |
| 20EY000FUS | A6-8500P | R5 | 8GBx1 | 15.6" HD | 500G 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM | No | 6(48wh) | Win10 P64 | 1-Depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E565 Platform Specifications sheet](#)

| | | | | | | | | | | |
|---------------------|--|------------|--------------|-------------|---------------------|-------|--------------|-------------|--------------------|---|
| Processor | AMD Accelerated Processor A6, A8 APU | | | | | | | | Smart Card Reader | None |
| | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | ExpressCard | None |
| | A6-8500P | 2 | 6 | 1.6 GHz | 3.0 GHz | 1MB | DDR3L-1600 | R5 Graphics | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| | A8-8600P | 4 | 10 | 1.6 GHz | 3.0 GHz | 2MB | | R6 Graphics | Ports | Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack |
| Graphics | AMD Radeon™ R5 or R6 Graphics in processor only, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); | | | | | | | | Monitor cable | None |
| Chipset Memory | AMD SoC (System on Chip) platform 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | | | | | | | | Camera | HD720p resolution, fixed focus |
| Display | <i>Some:</i> 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio <i>Some:</i> 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | | | | | | | | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack |
| Multi-touch | None | | | | | | | | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad |
| Storage | <i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ | | | | | | | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad |
| Optical | <i>Some:</i> SSHD with 8GB NAND flash memory <i>Some:</i> DVD burner, 9.0mm high, removable <i>Some:</i> Blank Bezel | | | | | | | | ThinkLight™ | None |
| Ethernet Bluetooth™ | Gigabit Network Connection Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | Security | Power-on password, hard disk password, supervisor password, security keyhole |
| WLAN | <i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | Security chip | <i>TPM2.0:</i> Trusted Platform Module, TPM2.0 FW (firmware) <i>TPM1.2:</i> Trusted Platform Module, TCG 1.2-compliant <i>TPM:</i> TPM2.0 and TPM1.2 |
| WWAN | None | | | | | | | | vPro | None |
| SIM card | None | | | | | | | | Fingerprint reader | <i>Some:</i> Fingerprint reader on the keyboard bezel, swipe sensor |
| Dimensions | <i>All (WxDxH):</i> 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm | | | | | | | | NFC | None |
| Weight | From 5.46 lb (2.48kg) | | | | | | | | Battery type | Li-Ion 6-cell (48Wh) |
| Case color | Graphite black | | | | | | | | Battery life | Up to 6.5 hr |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | | | | | | | | AC adapter | 45-watt AC adapter (Integrated Graphics) |
| | | | | | | | | | Preload | <i>Some:</i> No operating system <i>Some:</i> Windows 10 Pro 64 <i>Some:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 10 Pro 64 |
| | | | | | | | | | Limited warranty | 1-year - depot repair service / service upgrades available |
| | | | | | | | | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant |

ThinkPad E565 20EY - Discrete (TopSeller)

Product Specifications Reference (PSREF)

| Model | Processor | Graphics | Memory | Display | Storage | Optical | WLAN & Bluetooth | WWAN/SSD | SIM card | Camera | Keyboard | TPM | Finger print reader | Battery cells(wh) | Preload | Base Warranty (year) | Global | Ann Date (m/y) |
|------------|-----------|-----------|--------|-----------|------------|---------|------------------|----------|----------|--------|----------|--------|---------------------|-------------------|---------------|----------------------|--------|----------------|
| 20EY000HUS | A10-8700P | R6 M340DX | 8GBx1 | 15.6" FHD | 192GB SSD | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 P64 | 1-Depot | No | 11/15 |
| 20EY0006US | A10-8700P | R6 M340DX | 8GBx1 | 15.6" FHD | 500GB 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 P64 | 1-Depot | No | 11/15 |
| 20EY0007US | A10-8700P | R6 M340DX | 4GBx1 | 15.6" FHD | 192GB SSD | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 P64 | 1-Depot | No | 11/15 |
| 20EY0009US | A10-8700P | R6 M340DX | 8GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 P64 | 1-Depot | No | 11/15 |
| 20EY000JUS | A10-8700P | R6 M340DX | 4GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 P64 | 1-Depot | No | 11/15 |
| 20EY000EUS | A10-8700P | R6 M340DX | 8GBx1 | 15.6" FHD | 500GB 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 11/15 |
| 20EY000CUS | A10-8700P | R6 M340DX | 4GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 11/15 |
| 20EY000GUS | A10-8700P | R6 M340DX | 4GBx1 | 15.6" FHD | 192GB SSD | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 11/15 |
| 20EY000DUS | A10-8700P | R6 M340DX | 8GBx1 | 15.6" FHD | 192GB SSD | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 11/15 |
| 20EY000BUS | A10-8700P | R6 M340DX | 8GBx1 | 15.6" HD | 500GB 5400 | DVD±RW | BCM ac+BT | No | No | 720p | Numpad | TPM2.0 | No | 6(48wh) | Win10 DG Win7 | 1-Depot | No | 11/15 |

• For detailed platform specifications, please see [ThinkPad E565 Platform Specifications sheet](#)

| Processor | AMD Accelerated Processor A8, A10, or FX APU | Smart Card Reader | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|---|--------------------|--|---------------------|-------------|---------------------|------------------------|--------------|----------|----------|---|----|---------|---------|-----|------------|------------------------|-----------|---|----|---------|---------|-----|------------------------|----------|---|----|---------|---------|-----|------------------------|-------------|------|
| | <table border="1"> <thead> <tr> <th>Processor Number</th> <th># of Cores</th> <th># of Threads</th> <th>Clock Speed</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> <th>Graphics</th> </tr> </thead> <tbody> <tr> <td>A8-8600P</td> <td>4</td> <td>10</td> <td>1.6 GHz</td> <td>3.0 GHz</td> <td>2MB</td> <td rowspan="3">DDR3L-1600</td> <td>R6 M335DX (R6+R5 M330)</td> </tr> <tr> <td>A10-8700P</td> <td>4</td> <td>10</td> <td>1.8 GHz</td> <td>3.2 GHz</td> <td>2MB</td> <td>R6 M340DX (R6+R5 M330)</td> </tr> <tr> <td>FX-8800P</td> <td>4</td> <td>12</td> <td>2.1 GHz</td> <td>3.4 GHz</td> <td>2MB</td> <td>R8 M350DX (R7+R5 M330)</td> </tr> </tbody> </table> | Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | A8-8600P | 4 | 10 | 1.6 GHz | 3.0 GHz | 2MB | DDR3L-1600 | R6 M335DX (R6+R5 M330) | A10-8700P | 4 | 10 | 1.8 GHz | 3.2 GHz | 2MB | R6 M340DX (R6+R5 M330) | FX-8800P | 4 | 12 | 2.1 GHz | 3.4 GHz | 2MB | R8 M350DX (R7+R5 M330) | ExpressCard | None |
| Processor Number | # of Cores | # of Threads | Clock Speed | Max Turbo Frequency | Cache | Memory Types | Graphics | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A8-8600P | 4 | 10 | 1.6 GHz | 3.0 GHz | 2MB | DDR3L-1600 | R6 M335DX (R6+R5 M330) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A10-8700P | 4 | 10 | 1.8 GHz | 3.2 GHz | 2MB | | R6 M340DX (R6+R5 M330) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FX-8800P | 4 | 12 | 2.1 GHz | 3.4 GHz | 2MB | | R8 M350DX (R7+R5 M330) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Ports | Three USB 3.0 (one Always On), VGA, HDMI, Ethernet (RJ-45), Lenovo OneLink connector, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Monitor cable | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Camera | HD720p resolution, fixed focus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Audio support | HD Audio, Conexant® CX11852 codec, Dolby® Advanced Audio™ / stereo speakers, 2W x 2 / dual array microphone, combo audio/microphone jack | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Graphics | AMD Radeon R5 M330 Graphics, 2GB DDR3 memory, or Dual Graphics support for A8, A10 and FX APU external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content) | Keyboard | 6-row, spill-resistant, multimedia Fn keys, numeric keypad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | UltraNav™ | TrackPoint® pointing device and multi-touch with 3+2 buttons click pad | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ThinkLight™ | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chipset | AMD SoC (System on Chip) platform | Security | Power-on password, hard disk password, supervisor password, security keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Memory | 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets | Security chip | TPM2.0 : Trusted Platform Module, TPM2.0 FW (firmware) TPM1.2: Trusted Platform Module, TCG 1.2-compliant TPM : TPM2.0 and TPM1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, IPS, 250 nits, 16:9 aspect ratio | vPro | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Fingerprint reader | Some: Fingerprint reader on the keyboard bezel, swipe sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | NFC | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multi-touch | None | Battery type | Li-Ion 6-cell (48Wh) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Battery life | Up to 6.5 hr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | AC adapter | 65-watt AC adapter (Discrete Graphics) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Active Protection System™ | Preload | Some: No operating system Some: Windows® 7 Professional 64 Some: Windows 10 Pro 64 Some: Windows 10 Home 64 preinstalled through downgrade rights in Windows 10 Pro 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Some: SSHD with 8GB NAND flash memory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Some: DVD burner, 9.0mm high, removable | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Some: Blank Bezel | Limited warranty | 1-year - depot repair service / service upgrades available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Optical | | Environment | EPEAT™ Gold; ENERGY STAR®; RoHS-compliant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | Gigabit Network Connection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bluetooth™ | Bluetooth wireless, integrated in Wi-Fi + Bluetooth combo adapter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WLAN | One of the following, configurable by model: • BCM, Broadcom Wireless-AC, 1x1, Wi-Fi + Bluetooth combo adapter, M.2 Card • QCA, Qualcomm Wireless-AC, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WWAN | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM card | None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | All (WxDxH): 14.84" x 10.04" x 1.07"; 377mm x 255mm x 27.1mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | From 5.46 lb (2.48kg) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case color | Graphite black | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Case material | PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic display cover | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Lenovo Quick Pick (<http://www.lenovoquickpick.com>) is an options and services configurator for Lenovo systems.

For the options and services information on ThinkPad Laptops, please see below:

| | |
|---|--|
| <p>ThinkPad L440 http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l440</p> <p>ThinkPad L540 http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l540</p> | <p>ThinkPad L450 http://www.lenovoquickpick.com/usa/system/thinkpad/l-series/l450</p> |
| <p>ThinkPad T440 http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t440</p> <p>ThinkPad T440p http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t440p</p> <p>ThinkPad T440s http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t440s</p> | <p>ThinkPad T450 http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t450</p> <p>ThinkPad T450s http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t450s</p> |
| <p>ThinkPad T540p http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t540p</p> <p>ThinkPad W540 http://www.lenovoquickpick.com/usa/system/thinkpad/w-series/w540</p> | <p>ThinkPad T550 http://www.lenovoquickpick.com/usa/system/thinkpad/t-series/t550</p> <p>ThinkPad W541 http://www.lenovoquickpick.com/usa/system/thinkpad/w-series/w541</p> <p>ThinkPad W550s http://www.lenovoquickpick.com/usa/system/thinkpad/w-series/w550s</p> <p>ThinkPad P50 http://www.lenovoquickpick.com/usa/system/thinkpad/p-series/p50</p> <p>ThinkPad P70 http://www.lenovoquickpick.com/usa/system/thinkpad/p-series/p70</p> |
| <p>ThinkPad 11e http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-1st-gen-intel-windows</p> <p>ThinkPad 11e Chromebook http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-1st-gen-chromebook</p> <p>ThinkPad X240 http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x240</p> <p>ThinkPad X1 Carbon (2nd Gen) http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x1-carbon-2nd-gen</p> | <p>ThinkPad 11e (2nd Gen) http://www.lenovoquickpick.com/usa/system/thinkpad/11e-series/11e-2nd-generation-intel-windows</p> <p>ThinkPad X250 http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x250</p> <p>ThinkPad X1 Carbon (3rd Gen) http://www.lenovoquickpick.com/usa/system/thinkpad/x-series/x1-carbon-3rd-gen</p> |
| <p>ThinkPad E440 http://www.lenovoquickpick.com/usa/system/thinkpad/e-series/edge-e440</p> <p>ThinkPad E540 http://www.lenovoquickpick.com/usa/system/thinkpad/e-series/edge-e540</p> <p>ThinkPad E545 http://www.lenovoquickpick.com/usa/system/thinkpad/e-series/edge-e545</p> | |
| <p>ThinkPad S431 http://www.lenovoquickpick.com/usa/system/thinkpad/s-series/s431</p> | |

Disclaimer

Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an "AS-IS" basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.

PSREF books for the withdrawn systems:

http://www.lenovo.com/psref/psrefs_withdrawn.html

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, go to http://support.lenovo.com/en_US/product-service/warranty-status/WarrantyPolicies.page. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

- ¹ Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
- ² **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
- ³ **Thinness** may vary at certain points on the system.
- ⁴ **Wireless capability:** Requires compatible wireless-enabled options sold separately.
- ⁵ **TAA:** ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.
- ⁶ **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- ⁷ **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.
- ⁸ **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- ¹⁰ **Battery:** These model numbers achieved the battery life based on MobileMark® 2012 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.
- ¹¹ **External monitor:** This system supports a maximum of two external monitors. The integrated display(s) must be disabled to support two external monitors.
- ¹² **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
- ¹⁴ **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- ¹⁶ **Activating Verizon Wireless Service:** Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Service not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.
- ¹⁷ **International Warranty Service (IWS)** is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
- ¹⁹ **Depot repair service:** The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.
- ²⁰ **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.
- ²² **Lenovo Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See Lenovo Warranty Services terms and conditions for complete details and restrictions.
- ²³ **Activating AT&T Wireless Service:** Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T BroadbandConnect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply, including early termination fee; see www.wireless.att.com for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.
- ²⁶ **Full-size keyboard:** As defined by ISO/IEC 15412.
- ³⁰ **Measures only maximum** data transfer rate, not application performance. Many factors affect application performance.

²⁴ **Limited onsite service systems** are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

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