# QuickSpecs

## Overview

### HP Chromebook Enterprise 14 G7



**Left**

| | | | |
|---|---|---|---|
| **1.** | Microphones (2) | **5.** | Touch Pad |
| **2.** | Webcam | **6.** | SuperSpeed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1) |
| **3.** | Privacy Camera (Optional) | **7.** | HDMI v1.4 |
| **4.** | Webcam LED | **8.** | Nano Lock Slot (Lock sold separately.) |

## Overview



**Right**

1. Power Button
2. SuperSpeed USB Type-C® 5Gbps signaling rate (Power Delivery, video, data)
3. SuperSpeed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1)

4. Micro SD Memory Card Reader
5. Stereo Headphone / Microphone Combo Jack

# QuickSpecs

## Overview

### AT A GLANCE

- Supports latest Intel® Celeron® N4500 and N5100 processors
- Choice of up to 8 GB memory and 64 GB eMMc storage
- Intel® Wi-Fi 6 AX 2x2 WLAN with MU-MIMO and HP Extended Range Wireless LAN for stable connection in dense environment
- Optional backlit keyboard
- Narrow bezel display design
- 180-degree hinge and optional IPS anti-glare touchscreen for collaboration
- Optional privacy camera
- Spend less time charging with HP Fast Charge technology
- One HDMI port to connect to displays and projectors without dongle
- 1 SuperSpeed USB Type-C® 5Gbps signaling rate (Power Delivery, video, data) (USB 3.2 Gen 1)
- 18.35 mm thin from the front
- Weight starting at 1.54 kg (3.38 lbs)
- Front-facing 720p HD camera comes with two microphones
- Android Apps ready

**NOTE: See important legal disclosures for all listed specs in their respective features sections.**

## Technical Specifications

### PRODUCT NAME

HP Chromebook Enterprise 14 G7

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### OPERATING SYSTEM

**Preinstalled**     Chrome OS

NOTE: Single Chrome Enterprise Upgrade included. Requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see https://support.google.com/a/answer/60216

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### PROCESSORS

Intel® Celeron® N4500 (up to 2.8 GHz burst frequency, 4 MB L3 cache, 2 cores) [1,2]
Intel® Celeron® N5100 (up to 2.80 GHz burst frequency, 4 MB L3 cache, 4 cores) [1,2]

**Processor Family**
Intel® Celeron® processor (N5100, N4500)

1. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations Intel's numbering, branding and/or namig is not a measurement of higher performance
2. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

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### GRAPHICS

**Integrated**
Intel® UHD Graphics [3]

**Supports**
Support HD decode, DX12, HDMI

3. FHD/HD content required to view HD images.

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## Technical Specifications

### DISPLAY

**Non-Touch**

35.56 cm (14") diagonal, HD (1366 x 768) anti-glare WLED SVA, 250 nits, 45% NTSC, eDP NB ultraslim [3,4]

35.56 cm (14") diagonal, FHD (1920 x 1080) anti-glare WLED UWVA, 250 nits, 45% NTSC, eDP NB slim [3,4]

**Touch**

35.56 cm (14") diagonal, HD (1366 x 768) anti-glare WLED SVA, 250 nits, 45% NTSC, eDP NB Touch on panel [3,4,5]

35.56 cm (14") diagonal, FHD (1920 x 1080) anti-glare WLED UWVA, 250 nits, 45% NTSC, eDP NB slim Touch on panel [3,4,5]

3. FHD/HD content required to view FHD/HD images.

4. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

5. Actual brightness will be lower with touchscreen or Sure View.

### STORAGE AND DRIVES

**Primary Storage**

128 GB eMMC 5.0 [6]

64 GB eMMC 5.0 [6]

32 GB eMMC 5.0 [6]

6. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 9 GB is not user available

### MEMORY

**Maximum Memory**

8 GB LPDDR4X-4266 SDRAM

**Memory**

8 GB LPDDR4X -4266 SDRAM

4 GB LPDDR4X -4266 SDRAM

**Memory Slots**

Memory soldered on board

## Technical Specifications

### NETWORKING/COMMUNICATIONS

**WLAN**

Intel® Dual Band Wi-Fi 6 AX201 802.11a/b/g/n/ac/ax (2x2) WLAN and Bluetooth® 5.1 Combo, non-vPro® [7]

MU-MIMO supported
HP Extended Range WLAN supported

**Chromecast**

Chromecast Support [8]

7. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for Wi-Fi 6 (802.11ax WLAN) are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax WLAN devices. Only available in countries where 802.11ax is supported.
8. Chromecast must be purchased separately.

### AUDIO/MULTIMEDIA

**Audio**

HD audio
Dual 2W stereo speakers
Integrated dual microphones

**Camera**

720p HD camera [9]
Privacy shutter [10]

9. HD content required to view HD images.
10. Privacy shutter is an optional feature.

## Technical Specifications

### KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

**Keyboard**

Full-size island-style Chrome keyboard, spill resistant

Full-size island-style Chrome keyboard, backlit, spill resistant [11]

**Pointing Device**

Clickpad with multi-touch gesture support

Taps enabled as default

11. Backlit keyboard is an optional feature.

### SOFTWARE AND SECURITY

**Preinstalled Software**

**Security Management**

Titan C security chip

Nano lock slot (Lock sold separately)

Zero-Touch Enrollment capable

NOTE: Single Chrome Enterprise Upgrade included. Requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see https://support.google.com/a/answer/60216

### POWER

**Power Supply**

HP Smart 45 W USB Type-C adapter

**Primary Battery**

HP Long Life 2-cell, 47 Wh Li-ion polymer [12,13]

HP Fast Charge Technology (90% in 90 minutes) [14]

**Power Cord**

3-wire plug - 1m

**Battery Life**

Up to 12 hours and 30 minutes[20]

**Battery Weight**

## Technical Specifications

0.42 lb
0.192 kg

12. Battery is internal and not replaceable by customer. Serviceable by warranty.

13. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

14. Recharges the battery up to 90% within 90 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

20. Testing conducted by HP using Google Chrome OS power_LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage. See http://www.chromium.org/chromium-os/testing/power-testing for test details. Full charge battery life will decrease after Adaptive Battery Optimizer activation.

## WEIGHTS & DIMENSIONS

**Product Weight**
Starting at 3.38 lb [15]
Starting at 1.54 kg [15]

**Product Dimensions (w x d x h)**
12.85 x 8.93 x 0.72 in
32.65x 22.7 x 1.83 cm

15. Weight will vary by configuration. Does not include power adapter

## PORTS/SLOTS

1 SuperSpeed USB Type-C® 5Gbps signaling rate (Power Delivery, video, data) (USB 3.2 Gen 1)
2 SuperSpeed USB Type-A 5Gbps signaling rate (USB 3.2 Gen 1)
1 Headphone/microphone combo jack
1 HDMI v1.4 [16]

**Expansion Slots**
1 Micro SD multi-format digital media reader
Supports SD, SDHC, SDXC

16. HDMI cable sold separately.

## Technical Specifications

### SERVICE AND SUPPORT

1-year limited warranty and 90-day software limited warranty options depending on country. Batteries have a default one-year limited warranty. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc. [17]

17. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.

## Technical Specifications

### SYSTEM UNIT

| | |
|---|---|
| **Stand-Alone Power Requirements (AC Power)** | USB-C® 45W adapter |
| Nominal Operating Voltage | 15V |
| Average Operating Power | <4.3w with PLT test |
| Integrated graphics | Intel UHD Graphics 12EUs/24EUs |
| Max Operating Power | < 45W |
| **Temperature** | |
| Operating | 41° to 95° F (5° to 35° C) |
| Non-operating | -4° to 140° F (-20° to 60° C) |
| **Relative Humidity** | |
| Operating | 10% to 90% |
| Non-operating | 5% to 95% |
| **Shock** | |
| Operating | 40 G, 2 ms, half-sine |
| Non-operating | 240 G, 2 ms, half-sine |
| **Random Vibration** | |
| Operating | 1.043 grms |
| Non-operating | 3.5 grms |
| **Altitude (unpressurized)** | |
| Operating | -50 to 10,000 ft (-15 to 3,048 m) |
| Non-operating | -50 to 40,000 ft (-15 to 12,192 m) |
| **Planned Industry Standard Certifications** | |
| UL | Yes |
| CSA | No |
| FCC Compliance | Yes |
| ENERGY STAR® | Yes, ENERGY STAR® 8.0 [18] |
| EPEAT | EPEAT® Silver in United States [19] |
| ICES | Yes |
| Australia / | Yes |
| NZ A-Tick Compliance | Yes |
| CCC | Yes |
| Japan VCCI Compliance | No |
| KC | Yes |
| BSMI | Yes |
| CE Marking Compliance | Yes |
| BNCI or BELUS | No |
| CIT | Yes |
| GOST | Yes |
| Saudi Arabian Compliance (ICCP) | Yes |
| SABS | Yes |
| UKRSERTCOMPUTER | No |

## Technical Specifications

18. Configurations of the HP Chromebook Enterprise 14 G7 that are ENERGY STAR® qualified are identified as HP Chromebook Enterprise 14 G7 ENERGY STAR on HP websites and on http://www.energystar.gov.

19. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

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HP Chromebook Enterprise 14 G7

## Technical Specifications

### DISPLAYS

1. Actual brightness will be lower with touchscreen or sure view.

Note: all specifications represent the typical specifications provided by hp's component manufacturers; actual performance may vary either higher or lower.

**Panel LCD 14-in FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP NWBZ slim**

| | |
|---|---|
| **Outline Dimensions (W x H x D)** | 316.17 x 197.98 max. |
| **Active Area** | 309.37 x 174.02 |
| **Weight** | <285g max. |
| **Diagonal Size** | 14.0" |
| **Thickness** | 3.0mm max. |
| **Interface** | eDP 1.2 |
| **Surface Treatment** | Anti-glare (AG) |
| **Touch Enabled** | None |
| **Contrast Ratio** | 600:1 |
| **Refresh Rate** | 60Hz |
| **Brightness** | 250nit |
| **Pixel Resolution** | 1920 x 1080 (FHD) |
| **Format** | RGB |
| **Backlight** | LED |
| **Color Gamut Coverage** | 45% |
| **Color Depth** | 6bit |
| **Viewing Angle** | UWVA 85/85/85/85 |

**Panel LCD 14-in FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP TOP NWBZ slim**

| | |
|---|---|
| **Outline Dimensions (W x H x D)** | 316.17 x 198.07 max. |
| **Active Area** | 309.37 x 174.02 |
| **Weight** | <290g max. |
| **Diagonal Size** | 14.0" |
| **Thickness** | 3.0mm (Panel Side) / 3.2mm (PCBA Side) max. |
| **Interface** | eDP 1.2 |
| **Surface Treatment** | Anti-glare (AG) |
| **Touch Enabled** | Yes |
| **Contrast Ratio** | 600:1  - AG |
| **Refresh Rate** | 60Hz |
| **Brightness** [1] | 250 nits |
| **Pixel Resolution** | 1920 x 1080 (FHD) |
| **Format** | RGB |
| **Backlight** | LED |
| **Color Gamut Coverage** | 45% |
| **Color Depth** | 6bit |
| **Viewing Angle** | UWVA 85/85/85/85 |

## Technical Specifications

| Panel LCD 14-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR TOP NWBZ flat | Outline Dimensions (W x H x D) | 315.9*197.54 |
|---|---|---|
| | Active Area | 309.4 x 173.95 |
| | Weight | 290g Max |
| | Diagonal Size | 14." |
| | Thickness | 3.0mm (Panel Side) / 3.2mm (PCBA Side) max. |
| | Interface | eDP 1.2 |
| | Surface Treatment | Anti-glare (AG) |
| | Touch Enabled | Yes |
| | Contrast Ratio | 400:1 - AG |
| | Refresh Rate | 60Hz |
| | Brightness[1] | 250nits |
| | Pixel Resolution | 1366 x 768 (HD) |
| | Format | RGB |
| | Backlight | LED |
| | Color Gamut Coverage | 45% |
| | Color Depth | 6 bits |
| | Viewing Angle | SVA 45/45/15/30 |

| Panel LCD 14-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP NWBZ ultraslim | Outline Dimensions (W x H x D) | 315.9+/-0.3 x 197.54 +/- 0.5 |
|---|---|---|
| | Active Area | 309.4 x 173.95 |
| | Weight | 285g Max |
| | Diagonal Size | 14." |
| | Thickness | 3.0mm max |
| | Interface | eDP 1.2 |
| | Surface Treatment | Anti-glare (AG) |
| | Touch Enabled | None |
| | Contrast Ratio | 300:1 - AG |
| | Refresh Rate | 60Hz |
| | Brightness | 250nits |
| | Pixel Resolution | 1366 x 768 (HD) |
| | Format | RGB |
| | Backlight | LED |
| | Color Gamut Coverage | 45% |
| | Color Depth | 6 bits |
| | Viewing Angle | SVA 45/45/15/30 |

## Technical Specifications

### STORAGE

| eMMC 5.0 | Drive Weight | 0.2 g |
| --- | --- | --- |
| | Rotation speed | 32 GB/64 GB/128 GB |
| | Cache Buffer | |
| | Height | 1.4 mm |
| | Width | 11.5x13 mm |
| | Interface | MMC protocol |
| | Transfer Rate | Up to 250 MB/s |
| | Seek Time | Up to 70 MB/s |
| | Logical Blocks | 32 GB (31,268,536,320 Bytes)/64 GB (62,537,072,640 Bytes)/128 GB (125,074,145,280) |
| | Operating Temperature | 0 to 70 |
| | Security Features | HS400 |

For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 5.1 GB is not user available.

## Technical Specifications

### NETWORKING

| | | |
|---|---|---|
| **Intel® Wi-Fi 6 AX201 + BT5.1 (802.11ax 2x2, supporting gigabit data rate ) (non-vPro)[1,5]** | **Wireless LAN Standards** | IEEE 802.11a<br>IEEE 802.11b<br>IEEE 802.11g<br>IEEE 802.11n<br>IEEE 802.11ac<br>IEEE 802.11ax<br>IEEE 802.11d<br>IEEE 802.11e<br>IEEE 802.11h<br>IEEE 802.11i<br>IEEE 802.11k<br>IEEE 802.11r<br>IEEE 802.11v |
| | **Interoperability** | Features Wi-Fi 6 technology |
| | **Frequency Band** | 802.11b/g/n/ax<br>•2.402 – 2.482 GHz<br>802.11a/n/ac/ax<br>•4.9 – 4.95 GHz (Japan)<br>•5.15 – 5.25 GHz<br>•5.25 – 5.35 GHz<br>•5.47 – 5.725 GHz<br>•5.825 – 5.850 GHz |
| | **Data Rates** | •802.11b: 1, 2, 5.5, 11 Mbps<br>•802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>•802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>•802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)<br>•802.11ac : MCS0 ~ MCS9, (1SS, and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz)<br>•802.11ax : MCS0 ~ MCS11, (1SS and 2SS) (20MHz, 40MHz, ,80MHz & 160MHz) |
| | **Modulation** | Direct Sequence Spread Spectrum<br>OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM |
| | **Security[3]** | •IEEE compliant 64 / 128 bit WEP encryption for a/b/g mode only<br>•AES-CCMP: 128 bit in hardware<br>•802.1x authentication<br>•WPA, WPA2:  802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.<br>•WPA2 certification<br>•IEEE 802.11i<br>•WAPI |
| | **Network Architecture Models** | Ad-hoc (Peer to Peer)<br>Infrastructure (Access Point Required) |
| | **Roaming** | IEEE 802.11 compliant roaming between access points |
| | **Output Power[2]** | • 802.11b : +18.5dBm minimum |

## Technical Specifications

- 802.11g : +17.5dBm minimum
- 802.11a : +18.5dBm minimum
- 802.11n HT20(2.4GHz) : +15.5dBm minimum
- 802.11n HT40(2.4GHz) : +14.5dBm minimum
- 802.11n HT20(5GHz) : +15.5dBm minimum
- 802.11n HT40(5GHz) : +14.5dBm minimum
- 802.11ac VHT80(5GHz) : +11.5dBm minimum
- 802.11ac VHT160(5GHz) : +11.5dBm minimum
- 802.11ax HT40(2.4GHz) : +10dBm minimum
- 802.11ax VHT160(5GHz) : +10dBm minimum

| | |
|---|---|
| **Power Consumption** | •Transmit mode 2.0 W<br>•Receive mode 1.6 W<br>•Idle mode (PSP) 180 mW (WLAN Associated)<br>•Idle mode 50 mW (WLAN unassociated)<br>•Connected Standby 10mW<br>•Radio disabled 8 mW |
| **Power Management** | ACPI and PCI Express compliant power management<br>802.11 compliant power saving mode |
| **Receiver Sensitivity[4]** | •802.11b, 1Mbps : -93.5dBm maximum<br>•802.11b, 11Mbps : -84dBm maximum<br>•802.11a/g, 6Mbps : -86dBm maximum<br>•802.11a/g, 54Mbps : -72dBm maximum<br>•802.11n, MCS07 : -67dBm maximum<br>•802.11n, MCS15 : -64dBm maximum<br>•802.11ac, MCS0 : -84dBm maximum<br>•802.11ac, MCS9 : -59dBm maximum<br>•802.11ax, MCS11(HT40): -59dBm maximum<br>•802.11ax, MCS11(VHT160): -58.5dBm maximum |
| **Antenna type** | High efficiency antenna with spatial diversity, mounted in the display enclosure<br>Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications |
| **Form Factor** | PCI-Express M.2 MiniCard with CNVi Interface |
| **Dimensions** | 1. Type 2230 : 2.3 x 22.0 x 30.0 mm<br>2. Type 1216: 1.67 x 12.0 x 16.0 mm |
| **Weight** | 1. Type 2230 : 2.8g<br>2. Type 126: 1.3g |
| **Operating Voltage** | 3.3v +/- 9% |

| | | |
|---|---|---|
| **Temperature** | Operating | 14° to 158° F (−10° to 70° C) |
| | Non-operating | −40° to 176° F (−40° to 80° C) |
| **Humidity** | Operating | 10% to 90% (non-condensing) |
| | Non-operating | 5% to 95% (non-condensing) |
| **Altitude** | Operating | 0 to 10,000 ft (3,048 m) |
| | Non-operating | 0 to 50,000 ft (15,240 m) |

## Technical Specifications

| | |
|---|---|
| **LED Activity** | LED Amber – Radio OFF; LED Off – Radio ON |

**Integrated Module with Bluetooth 5.1 Wireless Technology**

| | |
|---|---|
| **Bluetooth Specification** | 4.0/4.1/4.2/5.0/5.1 Compliant |
| **Frequency Band** | 2402 to 2480 MHz |
| **Number of Available Channels** | Legacy : 0~79 (1 MHz/CH)<br>BLE : 0~39 (2 MHz/CH) |
| **Data Rates and Throughput** | Legacy : 3 Mbps data rate; throughput up to 2.17 Mbps<br>BLE : 1 Mbps data rate; throughput up to 0.2 Mbps<br>Legacy : Synchronous Connection Oriented links up to 3, 64 kbps, voice channels<br>Legacy : Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5) |
| **Transmit Power** | The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR. |

1. Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax devices. Only available in countries where 802.11ax is supported.
2. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
3. Check latest software/driver release for updates on supported security features.
4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
5. Wi-Fi 5 or 6 is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

# QuickSpecs

## Technical Specifications

### POWER

| HP Smart 45 W USB Type-C adapter | | |
|---|---|---|
| | **Dimensions** | 3.74 x 1.69 x 1.08 in (9.5 x 4.3 x 2.75 cm) |
| | **Weight** | 0.45 lbs (200g) max<br>(Not including power cord. Power cord varies by country.) |
| | **Input** | 100 to 240 VAC |
| | **Input Efficiency** | Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec:<br>5V : 81.5%<br>9V : 86.7%<br>12V : 87.41%<br>15V : 87.8% |
| | **Input frequency range** | 47 ~ 63Hz |
| | **Input AC current** | Max. 1.4 A at 90 Vac |
| | **Output** | 5V/9V/12V/15V |
| | **Output power** | 45W |
| | **DC output** | 5V/9V/12V/15V |
| | **Hold-up time** | 5ms at 115 Vac input |
| | **Output current limit** | <5.0A |
| | **Connector** | USB Type-C® |
| | **Operating temperature** | 32°F to 95°F (0°to 35°C) |
| | **Non-operating (storage) temperature** | -4°F to 185°F (-20° to 85°C) |
| | **Altitude** | 0 to 16,400 ft (0 to 5000m) |
| | **Humidity** | 20% to 95% |
| | **Storage Humidity** | 10% to 95% |
| | **EMI and Safety Certifications** | Eg:<br>*CE Mark - full compliance with LVD and EMC directives<br>* Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE.<br>* MTBF - over 200,000 hours at 25°C ambient condition. |

| **HP 2-cell Long Life Li-Ion (47 Wh)** | | |
|---|---|---|
| | Dimensions (H x W x L) | 5.2 x 240.8 x 76.4 mm (0.204 x 9.48 x 3 inch) |
| | Weight | 0.192 kg (0.42 lb) |
| | Cells/Type | 2cell Lithium-Ion Polymer cell / 4473A9 |
| | Energy | |
| | Voltage | 8.8V |
| | Amp-hour capacity | 6.150 Ah |
| | Watt-hour capacity | 47.3 Wh |
| | Temperature | |
| | Operating (Charging) | 32° to 113° F (0° to 45° C) |

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## Technical Specifications

| | |
|---|---|
| Operating (Discharging) | 14˚ to 122˚ F (-10˚ to 60˚ C) |
| Fuel Gauge LED | NA |
| Warranty | 1-year [6] |
| Optional Travel Battery Available | No |

## Technical Specifications

### ENVIRONMENTAL DATA

| Eco-Label Certifications & declarations | This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:<br>• IT ECO declaration<br>• US ENERGY STAR®<br>• US Federal Energy Management Program (FEMP)<br>• EPEAT® Silver registered in the United States. See http://www.epeat.net for registration status in your country.<br>• TCO 8.0<br>• China Energy Conservation Program (CECP)<br>• China State Environmental Protection Administration (SEPA)<br>• Taiwan Green Mark<br>• Korea Eco-label<br>• Japan PC Green label* |
|---|---|
| **Sustainable Impact Specifications** | • 5% post-consumer recycled plastic<br>• Low halogen<br>• Outside Box and corrugated cushions are 100% sustainably sourced and recyclable<br>• Recycled Plastic cushions<br>• Bulk packaging available |
| **System Configuration** | The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook". |

| **Energy Consumption (in accordance with US ENERGY STAR® test method)** | **115VAC, 60Hz** | **230VAC, 50Hz** | **100VAC, 50Hz** |
|---|---|---|---|
| Normal Operation (Sort idle) | 5.04 W | 4.88 W | 5.04 W |
| Normal Operation (Long idle) | 3.70 W | 3.37 W | 3.40 W |
| Sleep | 0.90 W | 0.89 W | 0.91 W |
| Off | 0.37 W | 0.36 W | 0.38 W |

Note:

Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

# QuickSpecs

## Technical Specifications

| Heat Dissipation* | 115VAC, 60Hz | 230VAC, 50Hz | 100VAC, 50Hz |
|---|---|---|---|
| Normal Operation (Short idle) | 17 BTU/hr | 17 BTU/hr | 17 BTU/hr |
| Normal Operation (Long idle) | 13 BTU/hr | 12 BTU/hr | 12 BTU/hr |
| Sleep | 3 BTU/hr | 3 BTU/hr | 3 BTU/hr |
| Off | 1 BTU/hr | 1 BTU/hr | 1 BTU/hr |

*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

| Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296) | Sound Power ($L_{WAd}$, bels) | Sound Pressure ($L_{pAm}$, decibels) |
|---|---|---|
| Typically Configured – Idle | 2.4 | 16.2 |
| Fixed Disk – Random writes | 2.4 | 16.2 |
| Optical Drive – Sequential reads | 2.4 | 16.2 |

| Longevity and Upgrading | This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the<br><br>Spare parts are available throughout the warranty period and or for up to "5" years after the end of production. |
|---|---|

| Additional Information | • This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.<br>• This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.<br>• This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).<br>• This product is in compliance with the IEEE 1680 (EPEAT) standard at the silver level, see www.epeat.net<br>• Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.<br>• This product is 96.3% recycle-able when properly disposed of at end of life. |
|---|---|

| Packaging Materials | External: | PAPER/Corrugated | 230 g |
|---|---|---|---|
| | | PAPER/Corrugated | 51 g |
| | Internal: | PLASTIC/EPE (Expanded Polyethylene) | 142 g |

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| | | PLASTIC/Polyethylene low density | 9 g |
|---|---|---|---|
| | The plastic packaging material contains at least 100% recycled content. | | |
| | The corrugated paper packaging materials contains at least 97.5% recycled content. | | |
| **RoHS Compliance** | HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam.<br><br>We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products.<br><br>We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.<br><br>To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement. | | |
| **Material Usage** | This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at<br><br>http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html):<br><ul><li>Asbestos</li><li>Certain Azo Colorants</li><li>Certain Brominated Flame Retardants – may not be used as flame retardants in plastics</li><li>Cadmium</li><li>Chlorinated Hydrocarbons</li><li>Chlorinated Paraffins</li><li>Bis(2-Ethylhexyl) phthalate (DEHP)</li><li>Benzyl butyl phthalate (BBP)</li><li>Dibutyl phthalate (DBP)</li><li>Diisobutyl phthalate (DIBP)</li><li>Formaldehyde</li><li>Halogenated Diphenyl Methanes</li><li>Lead carbonates and sulfates</li><li>Lead and Lead compounds</li><li>Mercuric Oxide Batteries</li><li>Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li><li>Ozone Depleting Substances</li><li>Polybrominated Biphenyls (PBBs)</li><li>Polybrominated Biphenyl Ethers (PBBEs)</li><li>Polybrominated Biphenyl Oxides (PBBOs)</li><li>Polychlorinated Biphenyl (PCB)</li><li>Polychlorinated Terphenyls (PCT)</li><li>Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li><li>Radioactive Substances</li><li>Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li></ul> | | |

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|---|---|
| **Packaging Usage** | HP follows these guidelines to decrease the environmental impact of product packaging:<br>• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.<br>• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.<br>• Design packaging materials for ease of disassembly.<br>• Maximize the use of post-consumer recycled content materials in packaging materials.<br>• Use readily recyclable packaging materials such as paper and corrugated materials.<br>• Reduce size and weight of packages to improve transportation fuel efficiency.<br>• Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. |
| **End-of-life Management and Recycling** | HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.<br><br>The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities.  This information (product disassembly instructions) is posted on the Hewlett Packard web site at:  http://www.hp.com/go/recyclers.  These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment. |
| **HP, Inc. Corporate Environmental Information** | For more information about HP's commitment to the environment:<br><br>Global Citizenship Report<br> http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html<br>Eco-label certifications<br> http://www8.hp.com/us/en/hp-information/environment/ecolabels.html<br> ISO 14001 certificates:<br> http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842<br> and<br> http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf |
| **footnotes** | • Percentage of ocean-bound plastic contained in each component varies by product<br>• Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard.<br>• External power supplies, WWAN modules, power cords, cables and peripherals excluded.<br>• 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.<br>• Plastic cushions are made from >90% recycled plastic. |

## Technical Specifications

### COUNTRY OF ORIGIN

China

## Options and Accessories (sold separately and availability may vary by country)

| Category | Description | Part Number |
|---|---|---|
| Cases | HP Prelude Pro Recycled 15.6 Backpack | 1X644AA,1X644UT,1X644ET |
| | HP Prelude Pro Recycled 15.6 Top Load | 1X645AA,1X645UT,1X645ET |
| | | |
| Docking | HP USB-C/A Universal Dock G2 | 5TW13AA, 5TW13UT, 5TW13ET |
| | HP USB-C Travel Hub G2 | 7PJ38AA |
| | | |
| Input/Output | HP Bluetooth Fingerprint Reader USB Mouse | 4TS44AA, 4TS44UT, 4TS44ET |
| | HP Bluetooth Travel Bluetooth Mouse | 6SP30AA, 6SP30UT, 6SP30ET |
| | HP Comfort Grip USB Wireless Mouse | H2L63AA, H2L63UT |
| | HP USB 320M Wired Mouse | 9VA80AA,9VA80UT,9VA80ET |
| | HP USB Laser 3 Button USB Mouse | H4B81AA, H4B81ET |
| | HP USB Premium USB Mouse | 1JR32AA,1JR32UT |
| | HP USB Premium Wireless Mouse | 1JR31AA,1JR31UT |
| | HP USB Travel USB Mouse | G1K28AA, G1K28ET |
| | HP Wireless 2.4GHz X4000 Bluetooth Mouse | H3T50AA, H3T50UT |
| | HP WL USB Agnes Keyboard | T6U20AA, T6U20UT |
| | HP Slim Wireless Keyboard and Mouse | T6L04AA, T6L04UT |
| | HP Wireless USB Premium Keyboard | Z9N41AA, Z9N41AT |
| | HP Wireless Rechargeable 950MK Mouse and Keyboard | 3M165AA, 3M165UT |
| | HP Wired Desktop 320MK Mouse and Keyboard | 9SR36AA,9SR36UT,9SR36ET |
| | HP 235 WL Mouse and Keyboard Combo | 1Y4D0AA, 1Y4D0UT |
| | HP 125 Wired Keyboard | 266C9AA, 266C9UT |
| | HP 225 Wired Mouse and Keyboard Combo | 286J4AA, 286J4UT |
| | HP HDMI to DVI  Adapter | F5A28AA |
| | HP HDMI to VGA Adapter | H4F02AA, H4F02UT, H4F02ET |
| | HP USB-C to HDMI 2.0 Adapter | 2PC54AA, 1WC36UT, 1WC36AA |
| | HP USB-C to RJ45 Adapter | V8Y76AA, V7W66AA, V7W66UT |
| | HP USB-C to USB 3.0 Adapter | N2Z63AA, N2Z63UT |
| | HP USB-C to VGA Adapter | P7Z54AA, N9K76AA, N9K76UT |
| | | |
| Power | HP 45W USB-C G2 AC Power Adapter | 1HE07AA |
| | HP 45W USB-C LC AC Power Adapter | 1MZ01AA |
| | HP 65W USB-C AC Power Adapter | 1HE08AA |
| | HP 65W USB-C Slim Travel AC Power Adapter | X7W50AA, 3PN48AA, 3PN48UT |
| | | |
| Security | HP Nano Cable Lock | 1AJ39AA,1AJ39UT |
| | HP SureKey Standard/Nano/Wedge Cable Lock | 6UW42AA,6UW42UT |
| | | |
| UCC | HP Stereo 3.5mm Headset | T1A66AA |
| | HP Wired USB-A Stereo Headset | T1A67AA |

## Summary of Changes

| Date of change: | Version History: | Updated | Description of change: |
|---|---|---|---|
| March 10, 2021 | V1 to V2 | Add | Battery Life |
| March 31, 2021 | V2 to V3 | Updated | Bluetooth version |
| August 3, 2021 | V3 to V4 | Add | Zero Touch Enrollment in Security Management |
| October 22, 2021 | V4 to V5 | Update | Software and Security section |
| April 20, 2022 | V5 to V6 | Added | Reference for USB ports |
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## Summary of Changes