ThinkCentre M90a 11JX0005US

Product
ThinkCentre M90a

Region
NA

Country/Region
USA

Machine Type
11JX

TopSeller
TopSeller

Processor
Intel Core i5-10500 (6C / 12T, 3.1 / 4.5GHz, 12MB)

Chipset
Intel Q470 Chipset

Graphics
Integrated Intel UHD Graphics 630

Memory
1x 8GB

Storage
1x 256GB SSD M.2 2280 PCIe x4 NVMe Opal

Optane Memory
None

Optical
DVD±RW

Media Reader
3-in-1 Card Reader

Display
23.8" FHD (1920x1080) In-Plane Switching Technology Anti-glare with PrivacyGaurd

Touchscreen
None

Microphone
2x, Array

Camera
1080p

Speaker
3Wx2

Ethernet
Integrated 100/1000M

WLAN + Bluetooth
Intel AX201 11ax, 2x2 + BT5.1

Optional Rear Ports
None

Chassis Intrusion Switch
None

Chassis E-Lock
None

Kensington Cable Lock
None

Dust Filter
None

VESA Mount
VESA mount

Carry Handle
None

Color
Black

Stand
Full Function Monitor Stand

Keyboard
USB Traditional Keyboard, Black, English

Mouse
USB Calliope Mouse

Power Supply
170W 89% Adapter

TUV Low Noise
None

Monitor Cable
None

System Management
Intel vPro

Operating System
Windows 10 Pro 64, English

Bundled Software
None

Base Warranty
3-year, Onsite

Bundled Service
None

EAN / UPC / JAN
195042542042

End of Support
2027-01-04

Announce Date
2020-05-26

Recommended Services

Good
3Y Premier Support upgrade from 3Y Onsite (5WS0V08537)

L **WWW.LENOVO.COM**

Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors.

Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.

PSREF **https://psref.lenovo.com**
Visit psref website for the latest version of Product specifications Reference.

ThinkCentre M90a Platform Specifications

Processor — Intel® Celeron®, Intel Pentium®, or 10th Gen Intel Core™ i3 / i5 / i7 / i9 Processor

Processor	Cores / Threads	Frequency Base/Max*(GHz)	Cache	Memory Support (Up to)	Integrated Graphics
Celeron G5900	2 / 2	3.4G	2 MB	DDR4-2666	UHD 610
Celeron G5920	2 / 2	3.5G	2 MB	DDR4-2666	UHD 610
Pentium Gold G6400	2 / 4	4.0G	4 MB	DDR4-2666	UHD 610
Pentium Gold G6500	2 / 4	4.1G	4 MB	DDR4-2666	UHD 630
Pentium Gold G6600	2 / 4	4.2G	4 MB	DDR4-2666	UHD 630
Core i3-10100	4 / 8	3.6G / 4.3G	6 MB	DDR4-2666	UHD 630
Core i3-10300	4 / 8	3.7G / 4.4G	8 MB	DDR4-2666	UHD 630
Core i3-10320	4 / 8	3.8G / 4.6G	8 MB	DDR4-2666	UHD 630
Core i5-10400	6 / 12	2.9G / 4.3G	12 MB	DDR4-2666	UHD 630
Core i5-10500	6 / 12	3.1G / 4.5G	12 MB	DDR4-2666	UHD 630
Core i5-10600	6 / 12	3.3G / 4.8G	12 MB	DDR4-2666	UHD 630
Core i7-10700	8 / 16	2.9G / 4.8G	16 MB	DDR4-2933	UHD 630
Core i9-10900	10 / 20	2.8G / 5.2G	20 MB	DDR4-2933	UHD 630

Memory — 64GB max (32GB SO-DIMM only available via special bid models), DDR4-3200*, two 260-pin SO-DIMM sockets, dual-channel capable
* System automatically clocks down for the processors with lower memory controller

Storage — Support up to 2x 2.5" HDD (2nd HDD occupy ODD bay) and 1x M2.SSD
Some: Hard Drive / SATA 6.0Gb/s, 2.5", 5400 rpm or 7200 rpm
Some: M.2 SSD (2242 / 2280) / PCIe NVMe, PCIe 3.0 x2 or PCIe 3.0 x4
Some: Intel Optane™ Memory M10, M.2 2280, PCIe 3.0 x2

Optical — *Some:* DVD-ROM SATA 1.5Gb/s Drive, slim (9.0mm)
Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)

Media reader — Optional 3-in-1 media card reader

Graphics — *Some:* **Intel HD Graphics 610/630** in processor, uses main memory, DirectX® 12,
Some: **AMD Radeon™ 625**, 2GB GDDR5, DirectX™ 12,
external monitor support via DisplayPort™(up to 4096x2304＠60Hz)

Monitor Cable — Optional DP to VGA dongle, DP to DVI-D dongle, DP to 2 DP dongle (MST mode), or DP to HDMI 1.4 dongle

Display — **23.8"** (604.5mm) **Full HD 1080p (1920x1080)**, In-Plane Switching technology (may refer to IPS, PLS, ADS, AHVA, AAS), wide viewing angle (H/V 178°), LED back-light, 250 nits (350 nits for the models with PrivacyGaurd), 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, borderless design (88% Screen to Body Ratio), optional PrivacyGaurd

Multi-touch — Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology

Camera — *Some:* 1080p camera with dual microphone, ThinkShutter (physical switch on/off)
Some: RGBIR camera with dual microphone, support 1080p, ThinkShutter (physical switch on/off), support Windows Hello

Controls — Microphone mute and power on/off buttons on side, PrivacyGaurd on/off botton on bottom (only for the models with PrivacyGaurd)

Chipset — **Intel Q470 Chipset**

Rear ports* — 4x USB 3.2 Gen 1 (one supports Smart Power On), 1x ethernet (RJ-45), 1x DisplayPort, 1x optional serial (9-pin),

Side ports* — 2x USB 3.2 Gen 2, 1x USB 3.2 Type-C Gen 1(5V/3A charging), 1x optional card reader, 1x headphone / microphone combo jack (3.5mm)

M.2 card slot — Two M.2 Card slots (one for WLAN, one for SSD/Optane)
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

Audio support — High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2), Dolby® Atmos® certified

WLAN — *Some:* 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2
Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2
Some: 11ax wireless, M.2 Card, Intel Wi-Fi 6 AX201 (dual band), Wi-Fi + Bluetooth 5.1 combo adapter, Intel vPro technology support, 2x2

Bluetooth™ — *Some:* Bluetooth 5.0/5.1 wireless, integrated in Wi-Fi + BT combo adapter

Ethernet — Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®

Manageability — Intel Active Management Technology 14.0 (Intel AMT 14.0); Intel vPro technology on some models (require choosing a vPro-support Wi-Fi adapter to enable vPro function through wireless connection)

Security chip — Discrete TPM 2.0, TCG Certified

Security features
- Security slot (for Kensington® lock)
- Optional Chassis intrusion switch
- Self-Healing BIOS
- Optional PrivacyGuard screen
- Power-on, admin, hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices

Keyboard — *Some:* Lenovo Calliope Keyboard (USB connector), black
Some: Lenovo Traditional Keyboard (USB connector), black

Mouse — *Some:* Lenovo Calliope Mouse (USB connector), black
Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black

Mechanical
- Business black color
- Toolless back cover, stand removal
- Support VESA mount (100mm)

Privacy Gaurd	ODD	Dimensions (WxDxH)	Approx weight (lb / kg)
		Without stand (with camera):	
		21.3" x 1.8" x 13.4" / 541 x 46 x 340.5 (mm)	11.6 / 5.25
	√	21.3" x 2.3" x 13.4" / 541 x 57.8 x 340.5 (mm)	12.3 / 5.57
√		21.3" x 1.9" x 13.4" / 541 x 49.5 x 340.5 (mm)	13.5 / 6.13
√	√	21.3" x 2.4" x 13.4" / 541 x 61.3 x 340.5 (mm)	14.2 / 6.45
		With Full Function Monitor stand (with camera):	
		21.3" x 7.9" x 16.3" to 19.5" / 541 x 200 x 414.2 to 494.2 (mm)	16.6 / 7.51
	√		17.3 / 7.84
√			18.5 / 8.39
√	√		19.2 / 8.71
		With UltraFlex IV stand (with camera):	
		Lowest in flat mode: 21.3" x 12.3" x 9.0" / 541 x 312.8 x 227.4 (mm)	18.2 / 8.26
	√	Highest in vertical mode: 21.3" x 9.2" x 18.4" / 541 x 232.7 x 467.7 (mm)	18.9 / 8.58
√		Lowest in flat mode: 21.3" x 12.3" x 9.1" / 541 x 312.8 x 230.5 (mm)	20.1 / 9.14
√	√	Highest in vertical mode: 21.3" x 9.2" x 18.4" / 541 x 232.7 x 467.7 (mm)	20.9 / 9.46
		Note: Camera adds 14.5mm in height (Vertical mode)	

Stand — *Some:* Full Function Monitor stand, Tilt: 30° back, -5° forward; Lift: 80mm
Some: UltraFlex IV stand, Tilt: 70° back, -5° forward; Lift: up to 115mm (vertical mode) / 164mm (flat mode)

Power supply — *Some:* 150 watts adapter, autosensing, 89% PSU
Some: 170 watts adapter, autosensing, 89% PSU

Limited warranty[3] — **1-year** or **3-year**, **limited onsite service** / service upgrades available

Preload — *Some:* Windows® 10 Pro 64-bit
Some: Windows 10 Home 64-bit
Some: Windows 10 IoT Enterprise (only available via special bid model)

Environment — ENERGY STAR® 8.0*, EPEAT™ Silver rating*, ErP Lot 3, TCO 8.0, TCO Edge, TUV Eye comfort certified, TUV Low Blue Light certified, TUV Ultra Low Noise certified (on some models), RoHS-compliant
* Only available for MT 11CD/11CE

MIL-SPEC test — MIL-STD-810H military certification (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)

Accessories — For compatible accessories, please go to **http://smartfind.lenovo.com**

Note: The specifications above may not be available in all regions.

ThinkCentre M90a