

ThinkCentre M90a 11CD004TGE

Product

ThinkCentre M90a

Region

WE

Country/Region

Germany

Machine Type

11CD

TopSeller

TopSeller

Processor

Intel Core i7-10700 (8C / 16T, 2.9 / 4.8GHz, 16MB)

Chipset

Intel Q470 Chipset

Graphics

Integrated Intel UHD Graphics 630

Memory

1x 16GB SO-DIMM DDR4-2933

Storage

1x 512GB SSD M.2 2280 PCIe 3.0x4 NVMe Opal

Optane Memory

None

Optical

DVD±RW

Card Reader

3-in-1 Card Reader

Display

23.8" FHD (1920x1080) IPS Anti-glare

Touchscreen

None

Microphone

2x, Array

Camera

1080p RGBIR

Speakers

3Wx2

Ethernet

Integrated 100/1000M

WLAN + Bluetooth

Intel 9560 11ac, 2x2 + BT5.0

Optional Rear Ports

None

Chassis Intrusion Switch

Chassis Intrusion Switch

Chassis E-Lock

None

Kensington Cable Lock

None

Dust Filter

None

VESA Mount

VESA mount

Carry Handle

None

Case Color

Black

Stand

UltraFlex IV Stand

Keyboard

USB Calliope Keyboard, Black, German

Mouse

USB Calliope Mouse, Black

Power Supply

170W 89% Adapter

Additional Certificates

TUV Ultra Low Noise, ENERGY STAR 8.0, EPEAT Silver

Monitor Cable

None

System Management

None

Operating System

Windows 10 Pro 64, German

Bundled Software

None

Base Warranty

3-year, Onsite

Bundled Service

None

EAN / UPC / JAN

0195235437858

End of Support

2027-01-04

Announce Date

2020-07-06

Recommended Services**Best**

5Y Premier Support upgrade from 3Y Onsite (5WS0V08511)

Better

4Y Premier Support upgrade from 3Y Onsite (5WS0V08524)

Good

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



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ThinkCentre M90a Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron®, Intel Pentium®, or 10th Gen Intel Core™ i3 / i5 / i7 / i9 Processor						Bluetooth™ Ethernet	Some: Bluetooth 5.0/5.1 wireless, integrated in Wi-Fi + BT combo adapter Gigabit ethernet, Intel Ethernet Connection I219-LM (Jacksonville), Wake on LAN®			
	Processor	Cores / Threads	Frequency Base/Max*(GHz)	Cache	Memory Support (Up to)	Integrated Graphics	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)			
	Celeron G5900	2 / 2	3.4G	2 MB	DDR4-2666	UHD 610	Security chip	Discrete TPM 2.0, TCG Certified			
	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	Security features	● Security slot (for Kensington® lock) ● Boot sequence control ● Optional Chassis intrusion switch ● Boot without keyboard and mouse ● Self-Healing BIOS ● Individual USB port disablement ● Optional PrivacyGuard screen ● Smart USB protection, allows keyboard/mouse only, blocks all storage devices ● Power-on, admin, hard disk password			
	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	Keyboard	Some: Lenovo Calliope Keyboard (USB connector), black Some: Lenovo Traditional Keyboard (USB connector), black Some: Lenovo Calliope Mouse (USB connector), black Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black			
	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	Mouse				
	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	Mechanical	● Business black color ● Toolless back cover, stand removal ● Support VESA mount (100mm)			
	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), DDR4-2666 / DDR4-2933*, two 260-pin SO-DIMM sockets, dual-channel capable * Memory module is DDR4-3200, but clocks down for the limitation of processors						Privacy Gaurd	ODD	Dimensions (WxDxH)		Approx weight (lb / kg)
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								Without stand (with camera):		
									21.3" x 1.8" x 13.4" / 541 x 46 x 340.5 (mm)		11.6 / 5.25
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)							√	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
Media reader	Optional 3-in-1 media card reader							√	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):		
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)							√	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
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						√	√			18.5 / 8.39
							√	√			19.2 / 8.71
Display	23.8" (604.5mm) Full HD 1080p (1920x1080), IPS (In Plane Switching) technology (IPS may refer to IPS, PLS, ADS, AHVA, AAS), wide viewing angle (H/V 178°), LED backlight, 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 (for MT 11JX only)						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
Multi-touch	Optional multi-touch, supports 10-point, AIT (Advanced In-cell Touch) technology 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							√	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
Camera	Some: 1080p camera with dual microphone, ThinkShutter (physical switch on/off), support Windows Hello						√	√	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)				
Controls	Microphone mute and power on/off buttons on side, PrivacyGaurd on/off botton on bottom (only for the models with PrivacyGaurd)						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)				
Chipset	Intel Q470 Chipset						Power supply	Some: 150 watts adapter, autosensing, 89% PSU Some: 170 watts adapter, autosensing, 89% PSU			
Rear ports*	4x USB 3.2 Gen 1 (one supports Smart Power On), 1x ethernet (RJ-45), 1x DisplayPort, 1x optional serial (9-pin),						Limited warranty ³	1-year or 3-year, limited onsite service / service upgrades available			
Side ports*	2x USB 3.2 Gen 2, 1x USB 3.2 Type-C Gen 1(5V/3A charging),						Preload	Some: Windows® 10 Pro 64-bit Some: Windows 10 Home 64-bit Some: Windows 10 IoT Enterprise (only available via special bid model)			
M.2 card slot	1x optional card reader, 1x headphone / microphone combo jack (3.5mm) 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						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 ** TCO 8.0 and TCO edge are not for the models with PrivacyGaurd			
Audio support	High Definition (HD) Audio, Realtek ALC233 / two internal speakers (3W x 2), Dolby® Atmos® certified						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)			
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						Accessories	For compatible accessories, please go to http://smartfind.lenovo.com			

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

Lenovo, November 2020

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