ThinkCentre M90s 11D1000PUS

Product

ThinkCentre M90s

Region

NA

Country/Region

USA

Machine Type

11D1

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 DDR4-2666

Storage

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

Optane Memory

None

Optional Bay

None

Front Access HDD

None

Optical

DVD+RW

Media Reader

None

Speaker

2Wx1

Ethernet

Integrated 100/1000M

WLAN + Bluetooth

None

Optional Rear Ports

None

Chassis Intrusion Switch

None

Chassis E-Lock

None

Kensington Cable Lock

None

Smart Cable Clip

None

Dust Filter

None

Carry Handle

None

Color

Black

Stand

Stand

Keyboard

USB Traditional Keyboard, Black, English

Mous

USB Calliope Mouse

Power Supply

260W 85%

TUV Low Noise

None

Monitor Cable

None

System Management

Intel vPro

Operating System

Windows 10 Pro 64, English

Bundled Software

None

Base Warrantv

3-year, Onsite

Bundled Service

None

EAN/UPC/JAN

195042268058

End of Support

2027-01-02

Announce Date

2020-05-21

Recommended Services

Best

4Y Lenovo Protect (Premier Support + Keep Your Drive + Accidental Damage Protection) (5PS0N73191)

Bette

4Y Lenovo Support (Premier Support + Keep Your Drive) (5PS0N73243)

Good

3Y Premier Support Upgrade from 3Y Onsite (5WS0V07841)

Notes:

California Electronic Waste Recycling Fee

In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to: https://www.calrecycle.ca.gov/Electronics/Consumer



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ThinkCentre M90s Platform Specifications

Processor	Intel® Celeron®, Intel	Pentium®	, or 10th Gen Int	el Core™	' i3 / i5 / i7 / i9 Pro	ocessor	WLAN	Some: 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band),
	Processor	Cores / Threads	Frequency Base/Max(GHz)	Cache	Memory Support (Up to)	Integrated Graphics		Wi-Fi + Bluetooth 5.0 combo adapter, 2x2 Some: 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band),
	Celeron G5900	2/2	3.4G	2 MB	DDR4-2666	UHD 610		Wi-Fi + Bluetooth 5.0 combo adapter, 2x2
	Celeron G5920	2/2	3.5G	2 MB	DDR4-2666	UHD 610		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
	Pentium Gold G6400	2/4	4.0G	4 MB	DDR4-2666	UHD 610	Bluetooth	Some: Bluetooth 5.0/5.1 wireless, integrated in Wi-Fi + BT combo adapter
	Pentium Gold G6500	2/4	4.1G	4 MB	DDR4-2666	UHD 630	Ethernet	Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN®
	Pentium Gold G6600	2/4	4.2G	4 MB	DDR4-2666	UHD 630	Ethernet (Opt.)	Some: Intel Ethernet Server Adapter I350-T4, gigabit ethernet, 4x RJ-45, PCIe x4
	Core i3-10100	4/8	3.6G / 4.3G	6 MB	DDR4-2666	UHD 630		Some: Bitland BN8E88, gigabit ethernet, 1x RJ-45, PCIe x1
	Core i3-10300	4/8	3.7G / 4.4G	8 MB	DDR4-2666	UHD 630	Manageability	Intel Active Management Technology 14 (Intel AMT 14);
	Core i3-10320	4/8	3.8G / 4.6G	8 MB	DDR4-2666	UHD 630		Intel vPro technology on some models (require choosing a vPro-support Wi-Fi
	Core i5-10400F	6/12	2.9G / 4.3G	12 MB	DDR4-2666	None	0	adapter to enable vPro function through wireless connection)
	Core i5-10400	6 / 12	2.9G / 4.3G	12 MB	DDR4-2666	UHD 630	Security chip	Discrete TPM 2.0, TCG Certified
	Core i5-10500	6 / 12	3.1G / 4.5G	12 MB	DDR4-2666	UHD 630	Security features	 Security slot (for Kensington® lock) Padlock loop Optional Smart Cable Clip to physically lock keyboard and mouse physically lock keyboard and mouse Individual USB port disablement
	Core i5-10600	6 / 12	3.3G / 4.8G	12 MB	DDR4-2666	UHD 630		
	Core i7-10700F	8 / 16	2.9G / 4.8G	16 MB	DDR4-2933	None		
	Core i7-10700	8 / 16	2.9G / 4.8G	16 MB	DDR4-2933	UHD 630		Optional chassis intrusion switch Smart USB protection, allows keyboard/
	Core i9-10900F	10 / 20	2.8G / 5.2G	20 MB	DDR4-2933	None		Optional chassis E-Lock mouse only, blocks all storage device
	Core i9-10900	10 / 20	2.8G / 5.2G	20 MB	DDR4-2933	UHD 630		Power-on password Self-Healing BIOS
	Max freguency may refer to Intel Turbo Boost Technology 2.0 / Intel Turbo Boost Max echnology 3.0 / Intel Thermal Velocity Boost, and adopt the max one of them					Max	Keyboard	
Memory	128GB max, DDR4-3200*, four 288-pin DIMM sockets, dual-channel capable * System automatically clocks down for the processors with lower memory controlle					able ry controlle		Some: Lenovo Traditional Keyboard (USB connector), black Some: Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black Some: Lenovo Calliope Mouse (USB connector), black Some: Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black Some: Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black
Storage	Support up to 3x HDD ([2.5" + dual 3.5"] or [dual 2.5" + 3.5"]) and up to 2x M2.SSD, RAID 0/1 support (RAID preset only available via special bid) Some: Hard Drive / SATA 6.0Gb/s, 2.5" or 3.5", 7200 rpm							
Optical	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 Some: DVD-ROM, SATA 1.5Gb/s Drive, slim (9.0mm) Some: DVD Burner (DVD±RW), SATA 1.5Gb/s Drive, slim (9.0mm)					4		 SFF (8.2L), black color, metal case Dimensins with bezel & PCI holder & rubber foot: (WxDxH) 3.6" X 11.7" X 13.4"; 93mm X 298mm X 340mm Weight (approx.): 11.7 lb (5.3 kg), weight may vary by configuration
	Four onboard SATA 6.0Gb/s connectors Optional 3-in-1 media reader (support SD, SDHC, and SDXC)							Bay 1: Slim ODD bay Bay 2: 3.5" HDD bay Bay 3: 2.5" HDD bay (optional bay, or bay comes with disk) Slot 1: low-profile (length < 155mm, height < 68mm), PCle 3.0 x16 Slot 2: low-profile (length < 155mm, height < 68mm), PCle 3.0 x1 Slot 3: low-profile (length < 155mm, height < 68mm), PCle 3.0 x4 Slot 4: no slot, only bracket for optional port extension M.2 card slots: three (one for WLAN, two for SSD/Optane)
•	Intel UHD Graphics 610/630 in some processors, uses main memory, DirectX® 12, two DisplayPort™, one optional video port (choose one from HDMI / DP / Type-C), supports up to 3 independent displays, more displays support via discrete graphics Max resolution: 4096×2304 (DP / Type-C)@60Hz; 4096×2160 (HDMI)@24Hz Some: AMD Radeon™ 520, DirectX 12, 2GB GDDR5, PCIe 3.0 x8, 30 watts,							
	two DisplayPort (up to 4096x2160@60Hz) onitor cable Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle (for Collage Display with intel integrated graphics), or DP to HDMI 1.4 dongle						LOG design	Optional system floor stand for vertical orientation Toolless cover, disk, optical, extension card removal
Chipset	Intel Q470 Chipset						Power supply	Some: 180 watts, autosensing, 85% PSU Some: 260 watts, autosensing, 85% PSU
Front ports* (Std.) 2x USB 3.2 Gen 2, 2x USB 3.2 Gen 1, 1x USB 3.2 Type-C Gen 1 (15W charging), 1x microphone (3.5mm), 1x headphone / microphone combo jack (3.5mm)							Some: 310 watts, autosensing, 95% PSU Some: 380 watts, autosensing, 92% PSU	
Front ports* (Opt.) Optional: 3-iin-1 media reader Rear ports* (Std.) 4x USB 3.2 Gen 1, 1x serial (9-pin), 1x ethernet (RJ-45), 2x DisplayPort**,						Limited warranty	* Discrete graphics card / 10-core processors need > 180w power supply 1-year or 3-year, limited onsite service / service upgrades available	
1x line-out (3.5mm) Rear ports* (Opt.) <i>Optional:</i> 1x optional video port** (choose one from HDMI / DP / USB 3.2 Type-C Gen 1 with DP function), 2x USB 2.0, 2x USB 3.2 Gen 1 via PCle x1, 2x USB 3.2 Type-C Gen 2 via PCle x4, 1x 2nd serial (9-pin), 4x serial (9-pin) via PCle x1,						Preload	Some: Windows® 10 Pro 64-bit Some: Windows 10 Home 64-bit Some: Windows 10 IoT Enterprise (only available via special bid model)	
		1x parallel (25-pin), 2x PS/2 ports (keyboard/mouse), additional RJ-45 and video ports available on optional graphics or ethernet card * Depending on many factors, actual data transfer speed may be lower than theoretical speed						ENERGY STAR® 8.0*, EPEAT™ Silver rating*, ErP Lot 3, TCO (coming soon),
	1x parallel (25-pin), 2 ports available on opt * Depending on many fa	x PS/2 po ional grap ctors, actua	ohics or ethernet al data transfer spe	card ed may be				TUV low noise verified (on some models), RoHS-compliant * Only available for MT 11D1/11D2
	1x parallel (25-pin), 2 ports available on opt	x PS/2 po ional grap ctors, actua models wit	ohics or ethernet al data transfer spe h integrated graphi	card ed may be cs	e lower than theoret	tical speed	Accessories	TUV low noise verified (on some models), RoHS-compliant















