

ThinkCentre M90q Platform Specifications

Product Specifications Reference (PSREF)

Processor	Intel® Celeron®, Intel Pentium®, or 10th Gen Intel Core™ i3 / i5 / i7 / i9 Processor						WLAN <i>Some:</i> 11ac wireless, M.2 Card, Realtek RTL8822CE (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2 <i>Some:</i> 11ac wireless, M.2 Card, Intel Wireless-AC 9560 (dual band), Wi-Fi + Bluetooth 5.0 combo adapter, 2x2 <i>Some:</i> 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 Ethernet Ethernet (Opt.) <i>Some:</i> Bluetooth 5.0/5.1 wireless, integrated in Wi-Fi + BT combo adapter Gigabit ethernet, Intel Ethernet Connection I219-LM(Jacksonville), Wake on LAN® None
	Processor	Cores / Threads	Frequency Base/Max*(GHz)	Cache	Memory Support (Up to)	Integrated Graphics	
	Celeron G5900T	2 / 2	3.2G	2 MB	DDR4-2666	UHD 610	
	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 G6400T	2 / 4	3.4G	4 MB	DDR4-2666	UHD 610	
	Pentium Gold G6500T	2 / 4	3.5G	4 MB	DDR4-2666	UHD 630	
	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 i3-10100T	4 / 8	3.0G / 3.8G	6 MB	DDR4-2666	UHD 630	
	Core i3-10300T	4 / 8	3.0G / 3.9G	8 MB	DDR4-2666	UHD 630	
	Core i5-10400T	6 / 12	2.0G / 3.6G	12 MB	DDR4-2666	UHD 630	
	Core i5-10500T	6 / 12	2.3G / 3.8G	12 MB	DDR4-2666	UHD 630	
	Core i5-10600T	6 / 12	2.4G / 4.0G	12 MB	DDR4-2666	UHD 630	
	Core i7-10700T	8 / 16	2.0G / 4.5G	16 MB	DDR4-2933	UHD 630	
	Core i9-10900T	10 / 20	1.9G / 4.6G	20 MB	DDR4-2933	UHD 630	
	Core i3-10110	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		
* Max frequency may refer to Intel Turbo Boost Technology 2.0 / Intel Turbo Boost Max Technology 3.0 / Intel Thermal Velocity Boost, and adopt the max one of them							
Memory	64GB max, 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 1x 2.5" HDD + 2x M.2 SSDs, RAID 0/1 support for M.2 SSDs (RAID preset only available via special bid model) <i>Some:</i> Hard Drive / SATA 6.0Gb/s, 2.5", 7200 rpm <i>Some:</i> M.2 SSD (2242 / 2280) / PCIe NVMe, PCIe 3.0 x2 or PCIe 3.0 x4 <i>Some:</i> Intel Optane™ Memory M10, M.2 2280, PCIe 3.0 x2 <i>Some:</i> DVD-ROM, slim (9.0mm), via USB external ODD box <i>Some:</i> DVD Burner (DVD±RW), slim (9.0mm), via USB external ODD box						
Optical	One onboard SATA 6.0Gb/s connector						
Onboard SATA	One onboard SATA 6.0Gb/s connector						
Graphics	Intel HD Graphics 610/630 in processor, uses main memory, DirectX® 12, one DisplayPort™, one HDMI, more video ports available via optional ports, up to 3 independent displays; <i>Max resolution:</i> 4096x2304 (DP)@60Hz; 4096x2304 (Type-C)@60Hz; 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@50Hz						
Monitor cable	Optional DP to VGA dongle, DP to DVI-D dongle, DP to dual DP dongle, or DP to HDMI 1.4 dongle						
Chipset	Intel Q470 Chipset						
Front ports (Std.)	* one USB 3.2 Gen 2 (Always On and fast charge), one USB 3.2 Type-C Gen 1, one headphone / microphone combo jack (3.5mm)						
Rear ports (Std.)	* 2x USB 3.2 Gen 2, 2x USB 3.2 Gen 1, 1x ethernet (RJ-45), 1x DP, 1x HDMI						
Rear ports (Opt.)	* Two optional ports:						
	Position	Port 1	Port 2	Port 1&2			
Optional parts		VGA / 2nd DP / 2nd HDMI / USB 3.2 Type-C Gen 1 with DP function / Serial	Serial	Dual USB 3.2 Gen 1 ports (Available at end of July)			
* Depending on many factors, actual data transfer speed may be lower than theoretical speed							
Audio support	Realtek ALC233VB / optional internal speaker (1.5 watt)						
Manageability	Intel Active Management Technology 14 (Intel AMT 14); 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	<ul style="list-style-type: none"> • Security slot (in rear for optional Kensington® MicroSaver® cable) • Chassis intrusion switch • Power-on password • Administrator password • 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 • Self-Healing BIOS 						
Keyboard	<i>Some:</i> Lenovo Calliope Keyboard (USB connector), black <i>Some:</i> Lenovo Traditional Keyboard (USB connector), black <i>Some:</i> Lenovo Calliope Wireless Keyboard (2.4GHz via USB receiver), black						
Mouse	<i>Some:</i> Lenovo Calliope Mouse (USB connector), black <i>Some:</i> Lenovo Fingerprint Mouse (USB connector), Windows Hello support, black <i>Some:</i> Lenovo Calliope Wireless Mouse (2.4GHz via USB receiver), black						
Mechanical	Tiny (1L), black color; metal case one 2.5" bay for HDD, three M.2 slots (one for WLAN, two for M.2 SSD)						
		Dimensions (WxDxH)		Weight (Approx.)			
	Tiny only	7.0" X 7.2" X 1.4" (1.5" with rubber feet) 179mm X 183mm X 34.5mm (37mm with rubber feet)		2.76 lb (1.25 kg), vary by config			
	With VESA mount & ODD box	8.04" X 7.35" X 2.52" 204.2mm X 186.6mm X 64mm		3.84 lb (1.74 kg), vary by config			
VESA mount	Optional VESA mount bracket kit, supports VESA 75mm and 100mm						
Floor Stand	Optional system floor stand for vertical orientation						
Dust filter	Optional dust filter						
EQO design	Toolless chassis open (need optional toolless chassis screw), toolless HDD, SSD and memory assembly / removal						
Power supply	<i>Some:</i> 65 watts AC/DC adapter, autosensing, 89% PSU <i>Some:</i> 90 watts AC/DC adapter, autosensing, 89% PSU (special bid only) <i>Some:</i> 135 watts AC/DC adapter, autosensing, 89% PSU <i>Some:</i> 230 watts AC/DC adapter, autosensing, 89% PSU						
Limited warranty	1-year or 3-year, limited onsite service / service upgrades available						
Preload	Preloaded operating system <i>Some:</i> Windows® 10 Pro 64-bit <i>Some:</i> Windows 10 Home 64-bit						
Environment	ENERGY STAR® 8.0, EPEAT™ Gold / Silver rating (on some models), ErP Lot 3, TCO 8.0 (coming soon), TUV low noise / ultra low noise verified (on some models), RoHS-compliant						
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.

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