Lenovo ThinkCentre M90a Intel® Core™ i7 i7-12700 60.5 cm (23.8") 1920 x 1080 pixels All-in-One PC 16 GB DDR4-SDRAM 512 GB SSD Windows 11 Pro Wi-Fi 6E (802.11ax) Black

Brand : Lenovo

Product family: ThinkCentre

Product code: 11VF0096MH

Product name : M90a

- Windows 11 Pro 64-bit

- Intel Core i7-12700 (25MB Cache)

- 60.5 cm (23.8") Full HD 1920 x 1080 IPS

- 16GB (3200MHz) DDR4-SDRAM (1 x 16) & 512GB SSD

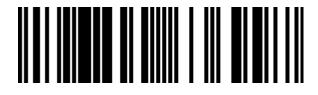
Intel Core i7-12700 (25MB Cache), 16GB DDR4-SDRAM, 512GB SSD, 60.5 cm (23.8") Full HD 1920 x 1080 IPS, DVD±RW, Intel UHD Graphics 770, LAN, WLAN, Bluetooth, Webcam, Windows 11 Pro 64-bit Lenovo ThinkCentre M90a. Product type: All-in-One PC. Display diagonal: 60.5 cm (23.8"), HD type: Full HD, Display resolution: 1920 x 1080 pixels, Panel type: IPS. Processor family: Intel® Core™ i7. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 512 GB, Storage media: SSD. On-board graphics card model: Intel UHD Graphics 770. Built-in camera. Optical drive type: DVD±RW. Operating system installed: Windows 11 Pro. Product colour: Black





Display		Ports & interfaces	
Display diagonal * Display resolution *	60.5 cm (23.8") 1920 x 1080 pixels	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Touchscreen *	× Full HD 16:9	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
HD type * Native aspect ratio		USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Display brightness Panel type	250 cd/m² IPS	HDMI ports quantity * DisplayPorts quantity	1 1
RGB colour space Anti-glare screen	NTSC	Combo headphone/mic port	✓
Colour gamut	72%	Design	
Processor		Product colour * Cable lock slot	Black ✓
Processor manufacturer * Processor family *	Intel Intel® Core™ i7	Cable lock slot type VESA mounting	Kensington ✓
Processor generation Processor model *	12th gen Intel® Core™ i7 i7-12700	Performance	
Processor cores	12	Product type *	All-in-One PC
Processor boost frequency Processor cache Processor cache type Bus type	4.9 GHz 25 MB Smart Cache DMI4	Motherboard chipset Trusted Platform Module (TPM) BIOS password HDD user password	Intel Q670 ✓ ✓
Processor cache Processor cache type	25 MB Smart Cache DMI4	Trusted Platform Module (TPM) BIOS password	у У
Processor cache Processor cache type Bus type	25 MB Smart Cache	Trusted Platform Module (TPM) BIOS password HDD user password	у У

Memory		Processor special features	
Memory form factor	DIMM/SO-DIMM	Enhanced Intel SpeedStep Technology	1
Storage		Intel Trusted Execution Technology	v
Total storage capacity * Storage media *	512 GB SSD	Intel VT-x with Extended Page Tables (EPT)	×
Total SSDs capacity Number of SSDs installed	512 GB 1	Intel Stable Image Platform Program (SIPP)	1
SSD capacity	512 GB	Intel 64	1
SSD interface	PCI Express 4.0	Execute Disable Bit	1
NVMe	1	Idle States	✓
SSD form factor	M.2	CPU configuration (max)	1
Optical drive type *	DVD±RW	Embedded options available	×
Card reader integrated	1	Intel Virtualization Technology for	1
Graphics		Directed I/O (VT-d)	
Discrete graphics card *	×	Intel Virtualization Technology (VT- x)	1
Discrete graphics card model *	Not available	Power	
On-board graphics card *	✓ Intel	AC adapter power	180 W
On-board GPU manufacturer	Intel Intel® UHD Graphics	AC adapter frequency	50/60 Hz
On-board graphics card family On-board graphics card model *	Intel UHD Graphics 770	AC adapter input voltage	100 - 240 V
Audio		Weight & dimensions	
		Width (with stand)	539.6 mm
Built-in speaker(s) *		Depth (with stand)	217.3 mm
Number of speakers	2	Height (with stand)	503.7 mm
RMS rated power	3 W	Weight (with stand)	8.23 kg
Built-in microphone		Width (without stand)	539.6 mm
Audio system	HD	Depth (without stand)	217.3 mm
Camera		Height (without stand)	394.6 mm
Built-in camera *	v	Operational conditions	
Total megapixels	5 MP	Operating temperature (T-T)	5 - 35 °C
Network		Storage temperature (T-T)	-20 - 60 °C
Wi-Fi *	1	Operating relative humidity (H-H) Operating altitude	20 - 80% 0 - 3048 m
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Non-operating altitude	0 - 12192 m
Wi-Fi standards	Wi-Fi 6E (802.11ax)		0 - 12192 11
WLAN controller manufacturer	Intel	Certificates	
WLAN controller model	Intel Wi-Fi 6E AX211	Compliance certificates	RoHS
Antenna type Ethernet LAN *	2x2	Certification	EPEAT Gold ENERGY STAR 8.0 ErP Lot 3 TCO Certified 9.0 TCO edge RoHS compliant
Ethernet LAN data rates	100,1000 Mbit/s	Sustainability	•
Bluetooth *		Sustainability certificates	ENERGY STAR, EPEAT Gold, ErP,
Bluetooth version	5.1	Sustainability certificates	тсо
Ports & interfaces	1	Packaging content	
Ethernet LAN (RJ-45) ports	1	Mouse included	✓
		Keyboard included	1
		Keyboard language	English





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