



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 *	60.5 cm (23.8")	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Display resolution *	1920 x 1080 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
Touchscreen *	✗	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
HD type *	Full HD	HDMI ports quantity *	1
Native aspect ratio	16:9	DisplayPorts quantity	1
Display brightness	250 cd/m ²	Combo headphone/mic port	✓
Panel type	IPS	Design	
RGB colour space	NTSC	Product colour *	Black
Anti-glare screen	✓	Cable lock slot	✓
Colour gamut	72%	Cable lock slot type	Kensington
Processor		VESA mounting	✓
Processor manufacturer *	Intel	Performance	
Processor family *	Intel® Core™ i7	Product type *	All-in-One PC
Processor generation	12th gen Intel® Core™ i7	Motherboard chipset	Intel Q670
Processor model *	i7-12700	Trusted Platform Module (TPM)	✓
Processor cores	12	BIOS password	✓
Processor boost frequency	4.9 GHz	HDD user password	✓
Processor cache	25 MB	Software	
Processor cache type	Smart Cache	Operating system architecture	64-bit
Bus type	DMI4	Operating system installed *	Windows 11 Pro
Memory		Operating system language	Dutch, English, Italian, French, German
Internal memory *	16 GB	Processor special features	
Internal memory type	DDR4-SDRAM		
Maximum internal memory *	64 GB		
Memory slots	2		
Memory slots type	SO-DIMM		
Memory clock speed	3200 MHz		
Memory layout (slots x size)	1 x 16 GB		

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



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