



## Lenovo ThinkCentre M90a Intel® Core™ i5 i5-14500 60,5 cm (23.8") 1920 x 1080 pixels PC All-in-One 16 Go DDR5-SDRAM 512 Go SSD Windows 11 Pro Wi-Fi 6E (802.11ax) Noir

Marque : Lenovo

Famille de produit:  
ThinkCentre

Code produit: 12SH000QFR

Nom du produit : M90a

- Windows 11 Pro  
- Intel Core i5-14500 (24Mo Cache)  
- 60.5 cm (23.8") Full HD 1920 x 1080 IPS  
- 16Go (4800MHz) DDR5-SDRAM (1 x 16) & 512Go SSD  
Intel Core i5-14500 (24Mo Cache), 16Go DDR5-SDRAM, 512Go 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  
Lenovo ThinkCentre M90a. Type de produit: PC All-in-One. Taille de l'écran: 60,5 cm (23.8"), Type HD: Full HD, Résolution de l'écran: 1920 x 1080 pixels, Type de panneau: IPS. Famille de processeur: Intel® Core™ i5. Mémoire interne: 16 Go, Type de mémoire interne: DDR5-SDRAM. Capacité totale de stockage: 512 Go, Supports de stockage: SSD. Modèle d'adaptateur graphique inclus: Intel UHD Graphics 770. Appareil photo intégré. Lecteur optique: DVD±RW. Système d'exploitation installé: Windows 11 Pro. Couleur du produit: Noir



Display		Audio	
Display diagonal *	60.5 cm (23.8")	Built-in microphone	✓
Display resolution *	1920 x 1080 pixels	Audio system	HD
Touchscreen *	✗	Camera	
HD type *	Full HD	Built-in camera *	✓
Native aspect ratio	16:9	Total megapixels	5 MP
Display brightness	250 cd/m²	Privacy camera	✓
Panel type	IPS	Privacy type	Privacy shutter
RGB colour space	sRGB	Network	
Anti-glare screen	✓	Wi-Fi *	✓
Colour gamut	99%	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Tilt adjustment	✓	Wi-Fi standards	Wi-Fi 6 (802.11ax)
Tilt angle range	-5 - 20°	WLAN controller manufacturer	Intel
Processor		WLAN controller model	Intel Wi-Fi 6E AX211
Processor manufacturer *	Intel	Antenna type	2x2
Processor family *	Intel® Core™ i5	Ethernet LAN *	✓
Processor generation	Intel® Core™ i5 (14th gen)	Ethernet LAN data rates	100,1000 Mbit/s
Processor model *	i5-14500	Bluetooth *	✓
Processor cores	14	Bluetooth version	5.3
Processor boost frequency	5 GHz	Ports & interfaces	
Performance cores	6	Ethernet LAN (RJ-45) ports	1
Efficient cores	8	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Performance-core Max Turbo Frequency	5 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	3
Efficient-core Max Turbo Frequency	3.7 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Performance-core base frequency	2.6 GHz	HDMI ports quantity *	1
Efficient-core base frequency	1.9 GHz		
Processor cache	24 MB		
Processor cache type	Smart Cache		

Processor		Ports & interfaces	
Processor base power	65 W	HDMI version	1.4/2.1
Maximum turbo power	154 W	DisplayPorts quantity	1
Memory		Combo headphone/mic port	✓
Internal memory *	16 GB	Serial ports quantity	2
Internal memory type	DDR5-SDRAM	Design	
Maximum internal memory *	64 GB	Product colour *	Black
Memory slots	2	Cable lock slot	✓
Memory slots type	SO-DIMM	Cable lock slot type	Kensington
Memory clock speed	4800 MHz	Performance	
Memory layout (slots x size)	1 x 16 GB	Product type *	All-in-One PC
Memory form factor	DIMM/SO-DIMM	Motherboard chipset	Intel Q670
Storage		Trusted Platform Module (TPM)	✓
Total storage capacity *	512 GB	Trusted Platform Module (TPM) version	2.0
Storage media *	SSD	Software	
Number of storage drives installed	1	Operating system installed *	Windows 11 Pro
Total SSDs capacity	512 GB	Operating system language	French
Number of SSDs installed	1	Power	
SSD capacity	512 GB	AC adapter power	180 W
SSD interface	PCI Express 4.0	Weight & dimensions	
NVMe	✓	Width (with stand)	539.6 mm
SSD form factor	M.2	Depth (with stand)	217.3 mm
Optical drive type *	DVD±RW	Weight (with stand)	8.13 kg
Card reader integrated	✓	Operational conditions	
Graphics		Operating temperature (T-T)	5 - 35 °C
Discrete graphics card *	✗	Storage temperature (T-T)	-20 - 60 °C
Discrete graphics card model *	Not available	Operating relative humidity (H-H)	20 - 80%
On-board graphics card *	✓	Operating altitude	0 - 3048 m
On-board GPU manufacturer	Intel	Non-operating altitude	0 - 12192 m
On-board graphics card family	Intel® UHD Graphics	Certificates	
On-board graphics card model *	Intel UHD Graphics 770	Compliance certificates	RoHS
Audio		Sustainability	
Built-in speaker(s) *	✓	Sustainability certificates	ENERGY STAR, TCO, EPEAT Gold
Number of speakers	2	Packaging content	
RMS rated power	6 W	Mouse included	✓
		Mouse connectivity	Wired
		Keyboard included	✓
		Keyboard connectivity	Wired
		Keyboard language	French



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