



## Lenovo ThinkCentre M90a Pro Gen 4 Intel® Core™ i7 i7-13700 68,6 cm (27") 2560 x 1440 pixels All-in-One PC 16 GB DDR5- SDRAM 512 GB SSD Windows 11 Pro Wi-Fi 6E (802.11ax) سیاه

Brand : Lenovo

Product family: ThinkCentre

Product code: 12JM0019SP

Product name : M90a Pro Gen  
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Lenovo ThinkCentre M90a Pro Gen 4. نوع محصول: All-in-One PC. 68,6 cm (27"), HD type: Quad HD, 2560 x 1440 pixels, Panel type: IPS. خانواده پردازنده: Intel® Core™ i7. Internal memory: 16 GB, نوع حافظه داخلی: DDR5-SDRAM. 512 GB, Storage media: SSD. سیستم: DVD±RW. دوربین سرخود. نوع درایو نوری: مدل آداپتور گرافیکی در روی بورد: Intel UHD Graphics 770. رنگ محصول: سیاه. Windows 11 Pro. عامل ارائه شده



Display		Camera	
Display diagonal *	68.6 cm (27")	Privacy type	Privacy shutter
Display resolution *	2560 x 1440 pixels	Network	
Touchscreen *	✗	Wi-Fi *	✓
HD type *	Quad HD	Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Native aspect ratio	16:9	Wi-Fi standards	Wi-Fi 6E (802.11ax)
Display brightness	350 cd/m²	WLAN controller manufacturer	Intel
Panel type	IPS	WLAN controller model	Intel Wi-Fi 6E AX211
RGB colour space	sRGB	Antenna type	2x2
Anti-glare screen	✓	Ethernet LAN *	✓
Colour gamut	99%	Ethernet LAN data rates	100,1000 Mbit/s
Processor		Bluetooth *	✓
Processor manufacturer *	Intel	Bluetooth version	5.1
Processor family *	Intel® Core™ i7	Ports & interfaces	
Processor generation	13th gen Intel® Core™ i7	Ethernet LAN (RJ-45) ports	1
Processor model *	i7-13700	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Processor cores	16	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
Processor boost frequency	5.2 GHz	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Performance cores	8	Intel® Thunderbolt 4	✓
Efficient cores	8	Thunderbolt 4 ports quantity	1
Performance-core Max Turbo Frequency	5.1 GHz	HDMI ports quantity *	1
Efficient-core Max Turbo Frequency	4.1 GHz	DisplayPorts quantity	1
Performance-core base frequency	2.1 GHz	Combo headphone/mic port	✓
Efficient-core base frequency	1.5 GHz	Design	
Processor cache	30 MB	Colour name	Black
Processor cache type	Smart Cache	Product colour *	Black
Processor base power	65 W		
Maximum turbo power	219 W		

Memory		Design	
Internal memory *	16 GB	Cable lock slot	✓
Internal memory type	DDR5-SDRAM	Cable lock slot type	Kensington
Maximum internal memory *	64 GB	Performance	
Memory slots	2	Product type *	All-in-One PC
Memory slots type	SO-DIMM	Motherboard chipset	Intel Q670
Memory clock speed	5600 MHz	Trusted Platform Module (TPM)	✓
Memory layout (slots x size)	1 x 16 GB	Trusted Platform Module (TPM) version	2.0
Memory form factor	DIMM/SO-DIMM	Software	
Storage		Operating system architecture	64-bit
Total storage capacity *	512 GB	Operating system installed *	Windows 11 Pro
Storage media *	SSD	Power	
Total SSDs capacity	512 GB	AC adapter power	230 W
Number of SSDs installed	1	AC adapter frequency	50 - 60 Hz
SSD capacity	512 GB	AC adapter input voltage	100 - 240 V
SSD interface	PCI Express 4.0	Weight & dimensions	
NVMe	✓	Width (with stand)	613.6 mm
SSD form factor	M.2	Depth (with stand)	219.8 mm
Optical drive type *	DVD±RW	Height (with stand)	411 mm
Card reader integrated	✓	Weight (with stand)	11.2 kg
Graphics		Operational conditions	
Discrete graphics card *	✗	Operating temperature (T-T)	5 - 35 °C
Discrete graphics card model *	Not available	Storage temperature (T-T)	-20 - 60 °C
On-board graphics card *	✓	Operating relative humidity (H-H)	20 - 80%
On-board GPU manufacturer	Intel	Storage relative humidity (H-H)	10 - 90%
On-board graphics card family	Intel® UHD Graphics	Operating altitude	-15.2 - 3048 m
On-board graphics card model *	Intel UHD Graphics 770	Non-operating altitude	-15.2 - 12192 m
Audio		Certificates	
Built-in speaker(s) *	✓	Compliance certificates	RoHS
Number of speakers	2	Sustainability	
RMS rated power	10 W	Sustainability certificates	ENERGY STAR, TCO, EPEAT Gold
Built-in microphone	✓	Packaging content	
Camera		Mouse included	✓
Built-in camera *	✓	Mouse connectivity	Wireless
Total megapixels	5 MP	Keyboard included	✓
Privacy camera	✓	Keyboard connectivity	Wireless
		Keyboard language	Spanish



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