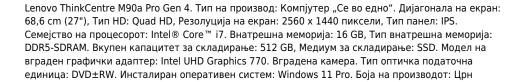
Lenovo.

Lenovo ThinkCentre M90a Pro Gen 4 Intel® Core™ i7 i7-13700 68,6 cm (27") 2560 x 1440 пиксели Компјутер "Се во едно" 16 GB DDR5-SDRAM 512 GB SSD Windows 11 Pro Wi-Fi 6E (802.11ax) Црн

Brand : Lenovo Product family: ThinkCentre Product code: 12JM0019SP

Product name: M90a Pro Gen

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Display		Camera	
Display diagonal *	68.6 cm (27")	Privacy type	Privacy shutter
Display resolution *	2560 x 1440 pixels	Network	
Touchscreen * HD type *	X Quad HD 16:9 350 cd/m² IPS sRGB ✓ 99%	Wi-Fi *	✓
Native aspect ratio Display brightness Panel type RGB colour space Anti-glare screen Colour gamut		Top Wi-Fi standard * Wi-Fi standards WLAN controller manufacturer WLAN controller model Antenna type Ethernet LAN *	Wi-Fi 6E (802.11ax) Wi-Fi 6E (802.11ax) Intel Intel Wi-Fi 6E AX211 2x2
Processor		Ethernet LAN data rates Bluetooth *	100,1000 Mbit/s ✓
Processor manufacturer *	Intel	Bluetooth version	5.1
Processor family * Processor generation	Intel® Core™ i7 13th gen Intel® Core™ i7	Ports & interfaces	
Processor generation Processor model * Processor cores Processor boost frequency Performance cores Efficient cores Performance-core Max Turbo Frequency Efficient-core Max Turbo Frequency Performance-core base frequency Efficient-core base frequency Processor cache Processor cache type	i7-13700 16 5.2 GHz 8 8 7 5.1 GHz quency 4.1 GHz lency 2.1 GHz	Ethernet LAN (RJ-45) ports USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity * USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity * Intel® Thunderbolt 4 Thunderbolt 4 ports quantity HDMI ports quantity * DisplayPorts quantity Combo headphone/mic port	1 3 2 1 1 1 1 1
Processor base power		Design	
Maximum turbo power		Colour name Product colour *	Black Black

Memory		Design	
Internal memory * Internal memory type Maximum internal memory *	16 GB DDR5-SDRAM 64 GB	Cable lock slot Cable lock slot type	✓ Kensington
		Performance	
Memory slots Memory slots type Memory clock speed Memory layout (slots x size) Memory form factor	2 SO-DIMM 5600 MHz 1 x 16 GB DIMM/SO-DIMM	Product type * Motherboard chipset Trusted Platform Module (TPM) Trusted Platform Module (TPM)	All-in-One PC Intel Q670 ✓ 2.0
Storage		version	
Total storage capacity * 512 GB Storage media * SSD Total SSDs capacity 512 GB Number of SSDs installed 1 SSD capacity 512 GB SSD interface PCI Express NVMe	SSD 512 GB	Software Operating system architecture Operating system installed *	64-bit Windows 11 Pro
		Power	
	PCI Express 4.0	AC adapter power AC adapter frequency AC adapter input voltage	230 W 50 - 60 Hz 100 - 240 V
SSD form factor	M.2	Weight & dimensions	
Optical drive type * Card reader integrated	DVD±RW ✓	Width (with stand) Depth (with stand)	613.6 mm 219.8 mm
Graphics		Height (with stand)	411 mm
Discrete graphics card *	x	Weight (with stand)	11.2 kg
On-board graphics card model * On-board GPU manufacturer On-board graphics card family On-board graphics card model *	Not available ✓ Intel Intel® UHD Graphics Intel UHD Graphics 770	Operational conditions Operating temperature (T-T) Storage temperature (T-T) Operating relative humidity (H-H) Storage relative humidity (H-H)	5 - 35 °C -20 - 60 °C 20 - 80% 10 - 90%
Audio		Operating altitude Non-operating altitude	-15.2 - 3048 m -15.2 - 12192 m
Built-in speaker(s) *	✓	Certificates	-13.2 - 12132 111
Number of speakers RMS rated power	2 10 W	Compliance certificates	RoHS
Built-in microphone	✓	Sustainability	
Camera		Sustainability certificates	ENERGY STAR, TCO, EPEAT Gold
Built-in camera *	✓	Packaging content	
Total megapixels Privacy camera	5 MP ✓	Mouse included Mouse connectivity Keyboard included Keyboard connectivity Keyboard language	Wireless Wireless Spanish





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