Lenovo

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

Marka : Lenovo

Nazwa produktu : M90a Pro Gen 4

Rodzina produktu: ThinkCentre

Kod produktu: 12JM0019SP

Lenovo ThinkCentre M90a Pro Gen 4. Typ produktu: All-in-One PC. Długość przekątnej ekranu: 68,6 cm (27"), Typ HD: Quad HD, Rozdzielczość: 2560 x 1440 px, Typ ekranu: IPS. Typ procesora: Intel® Core™ i7. Pamięć wewnętrzna: 16 GB, Typ pamięci wewnętrznej: DDR5-SDRAM. Całkowita pojemność przechowywania: 512 GB, Nośniki: SSD. Model karty graficznej on-board: Intel UHD Graphics 770. Wbudowana kamera/aparat. Napędy optyczne: DVD±RW. Zainstalowany system operacyjny: Windows 11 Pro. Kolor produktu: Czarny

Display

Display diagonal *	68.6 cm (27")
Display resolution *	2560 x 1440 pixels
Touchscreen *	✘
HD type *	Quad HD
Native aspect ratio	16:9
Display brightness	350 cd/m²
Panel type	IPS
RGB colour space	sRGB
Anti-glare screen	✔
Colour gamut	99%

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	13th gen Intel® Core™ i7
Processor model *	i7-13700
Processor cores	16
Processor boost frequency	5.2 GHz
Performance cores	8
Efficient cores	8
Performance-core Max Turbo Frequency	5.1 GHz
Efficient-core Max Turbo Frequency	4.1 GHz
Performance-core base frequency	2.1 GHz
Efficient-core base frequency	1.5 GHz
Processor cache	30 MB
Processor cache type	Smart Cache
Processor base power	65 W
Maximum turbo power	219 W

Camera

Privacy type	Privacy shutter

Network

Wi-Fi *	✔
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
WLAN controller manufacturer	Intel
WLAN controller model	Intel Wi-Fi 6E AX211
Antenna type	2x2
Ethernet LAN *	✔
Ethernet LAN data rates	100,1000 Mbit/s
Bluetooth *	✔
Bluetooth version	5.1

Ports & interfaces

Ethernet LAN (RJ-45) ports	1
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Intel® Thunderbolt 4	✔
Thunderbolt 4 ports quantity	1
HDMI ports quantity *	1
DisplayPorts quantity	1
Combo headphone/mic port	✔

Design

Colour name	Black
Product colour *	Black

Memory

Internal memory *	16 GB
Internal memory type	DDR5-SDRAM
Maximum internal memory *	64 GB
Memory slots	2
Memory slots type	SO-DIMM
Memory clock speed	5600 MHz
Memory layout (slots x size)	1 x 16 GB
Memory form factor	DIMM/SO-DIMM

Storage

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 4.0
NVMe	✔
SSD form factor	M.2
Optical drive type *	DVD±RW
Card reader integrated	✔

Graphics

Discrete graphics card *	✘
Discrete graphics card model *	Not available
On-board graphics card *	✔
On-board GPU manufacturer	Intel
On-board graphics card family	Intel® UHD Graphics
On-board graphics card model *	Intel UHD Graphics 770

Audio

Built-in speaker(s) *	✔
Number of speakers	2
RMS rated power	10 W
Built-in microphone	✔

Camera

Built-in camera *	✔
Total megapixels	5 MP
Privacy camera	✔

Design

Cable lock slot	✔
Cable lock slot type	Kensington

Performance

Product type *	All-in-One PC
Motherboard chipset	Intel Q670
Trusted Platform Module (TPM)	✔
Trusted Platform Module (TPM) version	2.0

Software

Operating system architecture	64-bit
Operating system installed *	Windows 11 Pro

Power

AC adapter power	230 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V

Weight & dimensions

Width (with stand)	613.6 mm
Depth (with stand)	219.8 mm
Height (with stand)	411 mm
Weight (with stand)	11.2 kg

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Storage temperature (T-T)	-20 - 60 °C
Operating relative humidity (H-H)	20 - 80%
Storage relative humidity (H-H)	10 - 90%
Operating altitude	-15.2 - 3048 m
Non-operating altitude	-15.2 - 12192 m

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	ENERGY STAR, TCO, EPEAT Gold

Packaging content

Mouse included	✔
Mouse connectivity	Wireless
Keyboard included	✔
Keyboard connectivity	Wireless
Keyboard language	Spanish

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