

Lenovo

## Lenovo ThinkCentre M90q Intel® Core™ i7 i7-13700 32 GB DDR5-SDRAM 1 TB SSD Windows 11 Pro Mini PC musta

**Tuotemerkki :** Lenovo

**Tuoteperhe:** ThinkCentre

**Tuotekoodi:** 12EH000MMX

**Tuotteen nimi :** M90q

- Windows 11 Pro 64-bit  
- Intel Core i7-13700 (30MB Cache)  
- 32GB (5600MHz) DDR5-SDRAM (2 x 16) & 1000GB SSD  
Intel Core i7-13700 (30MB Cache), 32GB DDR5-SDRAM, 1000GB SSD, Intel UHD Graphics 770, LAN, WLAN, Bluetooth, Windows 11 Pro 64-bit  
Lenovo ThinkCentre M90q. Suoritinperhe: Intel® Core™ i7, Prosessorimalli: i7-13700. Sisäinen muisti: 32 GB, Sisäisen muistin tyyppi: DDR5-SDRAM, Muistin kellotaajuus: 5600 MHz.  
Kokonaistallennuskapasiteetti: 1 TB, Tallennusmedia: SSD. Sisältyvän näytönohjaimen malli: Intel UHD Graphics 770. Käyttöjärjestelmä asennettu: Windows 11 Pro, Käyttöjärjestelmän arkkitehtuuri: 64-bittinen. Virtalähde: 230 W. Alustatyyppi: Mini PC. Tuotetyyppi: Mini PC. Paino: 1,25 kg. Tuotteen väri: musta



intel



intel

Processor		Ports & interfaces	
Processor manufacturer *	Intel	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Processor family *	Intel® Core™ i7	USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity *	4
Processor generation	13th gen Intel® Core™ i7	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity *	1
Processor model *	i7-13700	HDMI ports quantity *	1
Processor cores	16	HDMI version	2.1
Processor threads	24	DisplayPorts quantity	3
Processor boost frequency	5.2 GHz	Ethernet LAN (RJ-45) ports	1
Performance cores	8	Combo headphone/mic port	✓
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		
Number of processors installed	1		
Processor base power	65 W		
Maximum turbo power	219 W		
Memory		Design	
Internal memory *	32 GB	Chassis type *	Mini PC
Maximum internal memory *	64 GB	Colour name	Black
Internal memory type	DDR5-SDRAM	Volume	1 L
Memory layout (slots x size)	2 x 16 GB	Placement supported	Vertical
Memory slots	2x SO-DIMM	VESA mounting	✓
Memory clock speed	5600 MHz	Cable lock slot	✓
Memory channels	Dual-channel	Cable lock slot type	Kensington
		Product colour *	Black
		Performance	
		Motherboard chipset	Intel Q670
		Audio system	High Definition Audio
		Built-in speaker(s)	✓
		Number of speakers	1
		Password protection	✓
		Password protection type	HDD, Power on, Supervisor
		Trusted Platform Module (TPM)	✓

<b>Storage</b>		<b>Performance</b>	
Total storage capacity *	1 TB	Product type *	Mini PC
Storage media *	SSD	<b>Software</b>	
Optical drive type *	✗	Operating system installed *	Windows 11 Pro
Number of storage drives installed	1	Operating system architecture	64-bit
Total SSDs capacity	1 TB	Operating system language	English, Swedish, Finnish, Danish, Norwegian
Number of SSDs installed	1	<b>Power</b>	
SSD capacity	1 TB	Power supply *	230 W
SSD interface	PCI Express 4.0	Power supply input voltage	100 - 240 V
NVMe	✓	Power supply input frequency	50 - 60 Hz
SSD form factor	M.2	<b>Operational conditions</b>	
Card reader integrated	✗	Operating temperature (T-T)	5 - 35 °C
<b>Graphics</b>		Storage temperature (T-T)	-40 - 60 °C
Discrete graphics card *	✗	Operating relative humidity (H-H)	20 - 80%
On-board graphics card *	✓	Storage relative humidity (H-H)	10 - 90%
Discrete graphics card model *	Not available	Operating altitude	0 - 3048 m
On-board GPU manufacturer	Intel	Non-operating altitude	0 - 12192 m
On-board graphics card family	Intel® UHD Graphics	<b>Certificates</b>	
On-board graphics card model *	Intel UHD Graphics 770	Compliance certificates	RoHS
<b>Network</b>		<b>Sustainability</b>	
Ethernet LAN *	✓	Sustainability certificates	ENERGY STAR, TCO, EPEAT Silver
Ethernet LAN data rates	100,1000 Mbit/s	<b>Weight &amp; dimensions</b>	
Cabling technology	10/100/1000Base-T(X)	Width *	179 mm
Wi-Fi *	✓	Depth *	182.9 mm
Top Wi-Fi standard	Wi-Fi 6E (802.11ax)	Height *	36.5 mm
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Weight *	1.25 kg
WLAN controller manufacturer	Intel	<b>Packaging content</b>	
WLAN controller model	Intel Wi-Fi 6E AX211	Display included *	✗
Antenna type	2x2	Mouse included	✓
Bluetooth	✓	Mouse connectivity	Wired
Bluetooth version	5.1	Keyboard included	✓
		Keyboard connectivity	Wired



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