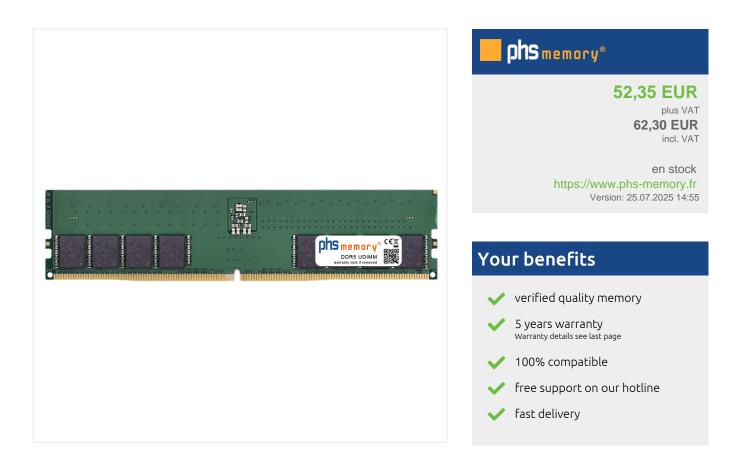
phs memory®

16GB Computer memory DDR5 for Lenovo ThinkCentre M90t Gen 4 (12HL) UDIMM



PHS-memory® - computer memory with 100% quality

- many years of IT competence
- Free support for optimal configuration and product selection
- High availability through professional warehouse management
- Fast delivery in throughout Europe
- Short response times and professional order processing due to full digitalization throughout the entire process with complete traceability
- Incoming goods inspection include checks of the DRAMs, PCBs and the programmed SPDs in order to exclude possible errors (Controlled BOM).
- PHS-memory® brand memories guarantee 100% compatibility to the specified system.
- PHS-memory® memories can be used together with existing memories in the device depends on to the configuration rules of the system.
- The "fallback option" in the SPD of PHS-memory® allows DRAMs with higher clock rates to be operated together with older memory modules with lower clock rates within the system.
- Products with unique serial number for service and warranty
- Pre-sales and after-sales support by technically trained personnel



Memory Specification

	133.35mm
	31.25mm DDRS UDIMM warranty void if removed 17.60mm
حــــــــــــــــــــــــــــــــــــ	62.90mm

Memory size	16GB			
Memory technology	DDR5			
ECC support	ΠΟ			
JEDEC Norm	PC5-38400-U			
Туре	UDIMM (Non-ECC unbuffered)			
Number of pins	288 Pin DIMM			
Memory data transfer rate	4800MHz			
Voltage	1,1 Volt			
Speciality				
Operating temperature	0° C - 85° C			
Storage temperature	-40° C - +95° C			
RoHS compliant	yes			
SKU	SP533245			
EAN	4067488975097			

Note: The module specified in this datasheet is one of several possible configurations available under this part number.

Some details may differ from the specifications described here and the illustration, but have no negative influence on the functionality.

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System Specifications

The memory is 100% compatible with this sytem:

System manufacturer	Lenovo
Device type	Desktop
Device family	ThinkCentre
Device series	M90 Serie
Device name	ThinkCentre M90t Gen 4 (12HL)
Standard memory	16GB / 32GB
Maximum memory*	192GB / 128GB according to manufacturer
Number of memory sockets	4
Annotation	for die folgenden Modelle: 12HL0000BL, 12HL0000CK, 12HL0000EU, 12HL0000EE, 12HL0000FR, 12HL0000FN, 12HL0000FR, 12HL0000GE, 12HL0000HX, 12HL0000MB, 12HL0000MD, 12HL0000MF, 12HL0000MG, 12HL0000MF, 12HL0000MT, 12HL0000MX, 12HL0000MT, 12HL0000MX, 12HL0000PB, 12HL0000PG, 12HL0000PB, 12HL0000PG, 12HL0000FR, 12HL0000PG, 12HL0000FR, 12HL0000VK, 12HL0000FR, 12HL0000FR, 12HL0001FN, 12HL0001BL, 12HL0001FN, 12HL0001FR, 12HL0001FN, 12HL0001FR, 12HL0001GE, 12HL0001FR, 12HL0001GE, 12HL0001HX, 12HL0001MB, 12HL0001MZ, 12HL0001MF, 12HL0001MG, 12HL0001MF, 12HL0001MT, 12HL0001MS, 12HL0001MT, 12HL0001MX, 12HL0001MT, 12HL0001MX, 12HL0001MZ, etc.

* The specifications for the maximum memory upgrade may differ from those of the manufacturer Lenovo. Often the information given in the manual for the maximum memory upgrade is not up to date. New memory technologies, bios updates or newer software versions often allow the use of memory modules with a higher capacity than specified by the manufacturer with the same performance and stability.

Information on memory installation

- Turn off the system
- Remove the plug of the power supply unit (if connected)



- Remove the battery, according to the user manual of the system
- Always ground yourself before touching electronic components
- Protect the memory module from static voltages:
- Do not touch the gold pins of the memory module
- Only touch the sides of the memory module
- Use a grounding strap and/or ESD glove if possible

General installation instructions are supplied by E-Mail.

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Further memory options for Lenovo ThinkCentre M90t Gen 4 (12HL)

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
8GB	SP533244	DDR5	UDIMM (Non- ECC unbuffered)	288 Pin DIMM	PHS-memory®	
16GB	SP533245	DDR5	UDIMM (Non- ECC unbuffered)	288 Pin DIMM	PHS-memory®	
24GB	SP533246	DDR5	UDIMM (Non- ECC unbuffered)	288 Pin DIMM	PHS-memory®	
32GB	SP533247	DDR5	UDIMM (Non- ECC unbuffered)	288 Pin DIMM	PHS-memory®	
48GB	SP533248	DDR5	UDIMM (Non- ECC unbuffered)	288 Pin DIMM	PHS-memory®	

PHS-memory® warranty

Every PHS-memory® is equipped with a 5-years-warranty of perfect operation. If the RAM module is defective or fails within 5 years of purchase when used properly, you will receive an appropriate RAM module free of charge. If a suitable memory module is no longer available, we will refund the purchase price.

For more information on warranty and service please visit https://www.phs-memory.fr/-W5Y



Contact Information

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All information without guarantee. Technical changes and errors excepted. You can find current price information in our online shop at https://www.phs-memory.fr