# phs memory®

### 8GB Computer memory DDR5 for Lenovo ThinkCentre M90a Pro Gen 3 (11VA) SO DIMM

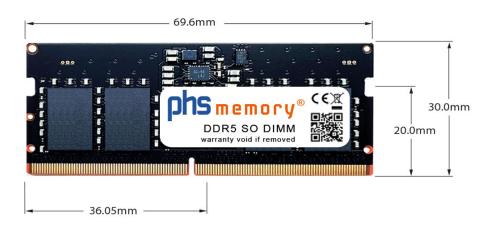


#### PHS-memory® - computer memory with 100% quality

- 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



Memory size	8GB		
Memory technology	DDR5		
ECC support	ΠΟ		
JEDEC Norm	PC5-38400-S		
Туре	SO DIMM		
Number of pins	262 Pin SO 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	SP432020		
EAN	4064578949518		

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.



#### System Specifications

The memory is 100% compatible with this sytem:

System manufacturer	rer Lenovo				
Device type	Desktop				
Device family	ThinkCentre				
Device series	M90 Serie				
Device name	ThinkCentre M90a Pro Gen 3 (11VA)				
Standard memory	32GB				
Maximum memory*	64GB				
Number of memory sockets	2				
Annotation	suitable for the following models: 11VA001MBL, 11VA001MCK, 11VA001MCR, 11VA001MEE, 11VA001MEU, 11VA001MFN, 11VA001MFR, 11VA001MIL, 11VA001MHX, 11VA001MMB, 11VA001MMD, 11VA001MMF, 11VA001MMD, 11VA001MMF, 11VA001MMG, 11VA001MMS, 11VA001MMC, 11VA001MMS, 11VA001MMX, 11VA001MMZ, 11VA001MMX, 11VA001MRI, 11VA001MSP, 11VA001MRI, 11VA001MSP, 11VA001MRI, 11VA001MCK, 11VA001NBL, 11VA001NCK, 11VA001NCR, 11VA001NCK, 11VA001NFR, 11VA001NFN, 11VA001NFR, 11VA001NFN, 11VA001NFR, 11VA001NIL, 11VA001NHX, 11VA001NMF, 11VA001NMD, 11VA001NMF, 11VA001NMD, 11VA001NMF, 11VA001NMD, 11VA001NMF, 11VA001NMZ, 11VA001NMF, 11VA001NMF, 11VA001NMF, 11VA001NFF, 11VA001NMF, 11VA001NFF, 11VA001NMF, 11VA001NFF, 11VA001NFF, 11VA001SFF, 11VA001SFF, 11VA001SFF, 11VA001SMF, 11VA001SMF, 11VA001SMF, 11VA001SMF, 11VA001SMF, 11VA001SMF,				



\* 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.



## Further memory options for Lenovo ThinkCentre M90a Pro Gen 3 (11VA)

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
8GB	SP432020	DDR5	SO DIMM	262 Pin SO DIMM	PHS-memory®	
16GB	SP432018	DDR5	SO DIMM	262 Pin SO DIMM	PHS-memory®	
32GB	SP432019	DDR5	SO DIMM	262 Pin SO 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