

## 32GB Computer memory DDR4 for Lenovo ThinkCentre M90a (11CD) SO DIMM





# Your benefits ✓ verified quality memory ✓ 5 years warranty warranty details see last page ✓ 100% compatible ✓ free support on our hotline ✓ fast delivery

#### 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	32GB
Memory technology	DDR4
ECC support	no
JEDEC Norm	PC4-2666V-S
Туре	SO DIMM
Number of pins	260 Pin DIMM
Memory data transfer rate	2666MHz @ CL19
Voltage	1,2 Volt
Speciality	-
Board dimensions	69,73 x 30,13 (LxB mm)
Operating temperature	0° C - 85° C
Storage temperature	-40° C - +95° C
RoHS compliant	yes
SKU	SP357015
EAN	4064578196318

### overRAMing - maximize your RAM



Most systems - including the Lenovo ThinkCentre M90a (11CD) - can be upgraded with more memory than originally specified by the device manufacturer.

Therefore, our memory specialists continuously analyze new memory solutions in selected systems. Due to improved manufacturing technologies, new memories with higher performance and capacity will be tested for stability and functionality.

Then the new memory solutions are released for the respective systems. Use the benefits of larger computer memory capacity with the PHSmemory® overRAMing memory solutions.

https://www.phs-memory.fr/-BOR

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	Lenovo			
Device type	Desktop			
Device family	ThinkCentre			
Device series	M90 Serie			
Device name	ThinkCentre M90a (11CD)			
Standard memory	16GB			
Maximum memory*	64GB / 32GB according to manufacturer			
Number of memory sockets	2			
Annotation	for die folgenden Modelle: 11CD004LBL, 11CD004LCK, 11CD004LCR, 11CD004LEE, 11CD004LEU, 11CD004LFN, 11CD004LFR, 11CD004LIX, 11CD004LMB, 11CD004LMD, 11CD004LMF, 11CD004LMG, 11CD004LMF, 11CD004LML, 11CD004LMS, 11CD004LMX, 11CD004LMZ, 11CD004LNX, 11CD004LPB, 11CD004LPG, 11CD004LTX, 11CD004LSP, 11CD004LTX, 11CD004LWK, 11CD004MCK, 11CD004MBL, 11CD004MCK, 11CD004MFR, 11CD004MFN, 11CD004MFR, 11CD004MMG, 11CD004MMB, 11CD004MMG, 11CD004MMB, 11CD004MMG, 11CD004MMB, 11CD004MMG, 11CD004MMB, 11CD004MMG, 11CD004MMF, 11CD004MMG, 11CD004MMS, 11CD004MMC, 11CD004MMZ, 11CD004MMX, 11CD004MMZ, 11CD004MMX, 11CD004MMZ, 11CD004MMX, 11CD004MPB, 11CD004MPG, 11CD004QMZ, 11CD004QPG, 11CD004QPB, 11CD004QPG, 11CD004QTX, 11CD004QPG, 11CD004QTX, 11CD004QPG, 11CD004QCX, 11CD004REU, 11CD004REE, 11CD004REU, 11CD004RGE, 11CD004RFR, 11CD004RGE, 11CD004RHX, etc.			

<sup>\*</sup> 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

#### Product Datasheet | SP357015

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the same performance and stability.

Memory modules with our overRAMing-symbol are approved by us for maximum memory expansion.

#### 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 (11CD)

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
8GB	SP357016	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	4X70Z90846, 4X70Z90844
16GB	SP357014	DDR4	SO DIMM	260 Pin DIMM	PHS-memory®	4X70Z90847, 4X70Z90845
32GB	SP357015	DDR4	SO DIMM	260 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.





#### 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