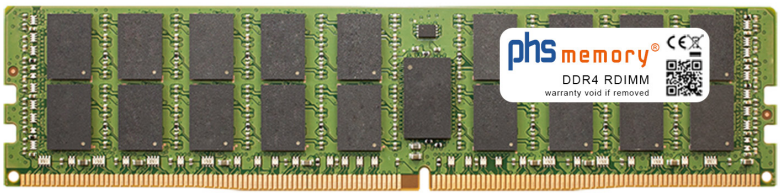
64GB Computer memory DDR4 for Lenovo ThinkSystem SR590 (7X99) RDIMM 3DS



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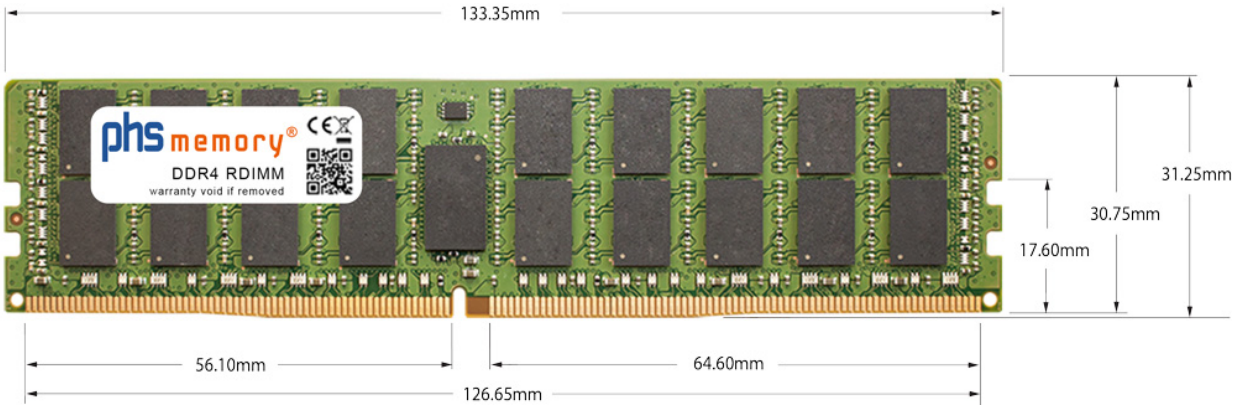
Memory Specification



Memory size	64GB
Memory technology	DDR4
ECC support	ja
JEDEC Norm	PC4-21300R
DRAM Organization	3DS 2H 4Gx4
Rank	4Rx4 (2S2Rx4)
Type	RDIMM (ECC Registered) 3DS
Number of pins	288 Pin DIMM
Memory data transfer rate	2666MHz @ CL19
Voltage	1,2 Volt
Speciality	3DS
Board dimensions	133,35 x 31,25 (LxB mm)
Operating temperature	0° C - 85° C
Storage temperature	-40° C - +95° C
RoHS compliant	Yes
SKU	SP257693
EAN	4063369261020

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	Server
Device family	ThinkSystem
Device series	SR590 Serie
Device name	ThinkSystem SR590 (7X99)
Maximum memory*	2TB / 1TB according to manufacturer
Number of memory sockets	16
Annotation	suitable for the following models: 7X991000LA, 7X991001LA, 7X991002LA, 7X991003LA, 7X991004LA, 7X991005LA, 7X991006LA, 7X99A002SG, 7X99A003EA, 7X99A003NA, 7X99A004CN, 7X99A005SG, 7X99A006AU, 7X99A006NA, 7X99A007SG, 7X99A008CN, 7X99A009EA, 7X99A009NA, 7X99A00ACN, 7X99A00BCN, 7X99A00CSG, 7X99A00DAU, 7X99A00DEA, 7X99A00EAU, 7X99A00FCN, 7X99A00GEA, 7X99A00GNA, 7X99A00HAU, 7X99A00HNA, 7X99A00JAU, 7X99A00JNA, 7X99A00KCN, 7X99A00LSG, 7X99A00MSG, 7X99A00NSG, 7X99A00PSG, 7X99A00QSG, 7X99A00RCN, 7X99A00SEA, 7X99A00TEA, 7X99A00TNA, 7X99A00USG, 7X99A00VLA, 7X99A00WSG, 7X99A00XAU, 7X99A00YJP, 7X99A00ZSG, 7X99A010CN, 7X99A011EA, 7X99A012SG, 7X99A030AU, 7X99A030NA, 7X99A031SG, 7X99A032CN, 7X99A033EA, 7X99A034CN, 7X99A035AU, 7X99A036SG, 7X99A037JP, 7X99A038NA, 7X99A039EA, 7X99A03ANA, 7X99A03BEA, 7X99A03CEA, 7X99A03DNA, 7X99A03EAU, 7X99A03FAU, 7X99A03GAU, 7X99A03HAU, 7X99A03JAU, 7X99A03KAU, 7X99A03LAU, 7X99A03MAU, 7X99A03PEA, 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.

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Information on memory allocation

Information on memory configuration

The following technical specifications should be considered in advance:

- The system supports RDIMM and RDIMM 3DS (Registered DIMM) or LRDIMM and LRDIMM 3DS (Load Reduced DIMM) memory modules. Large memory capacities can be realised with LRDIMM 3DS modules.
- RDIMM and RDIMM 3DS memory modules cannot be operated together with LRDIMM and LRDIMM 3DS main memories.
- If a memory expansion is to be made with the already existing RAM memories, it must be checked which basic memory technology (RDIMM / LRDIMM) is available.
- When using a multiprocessor system, the memory slots should always be configured identically for each CPU.
- Memory slots without a processor may not be used.
- If memory modules are provided with higher speeds than specified by the system, the memory speed is automatically adjusted to the system specifications.
- The CPU supports 6 DIMMs per memory channel.

Maximum memory speed of possible CPUs

Xeon CPUs of the 1nd generation are offered in Bronze, Silver, Gold or Platinum. The different processor series also support different maximum memory speeds:

Xeon	CPU-series	max. Speed MHz
Bronze	3100	2133
Silver	4100	2400
Gold	5100	2666
Gold	6100	2666
Platinum	8100	2666

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 ThinkSystem SR590 (7X99)

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
8GB	SP257694	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
16GB	SP257691	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
32GB	SP257692	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	4ZC7A08709, 7X77A01304
64GB	SP257693	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	4ZC7A08710
64GB	SP257690	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	7X77A01305
128GB	SP474316	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	
128GB	SP467029	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP467028	DDR4	LRDIMM (ECC LR DIMM) 3DS	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

5 Jahre Garantie

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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

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