

128GB Computer memory DDR4 for Gigabyte S451-3R0 (rev. 100) RDIMM 3DS





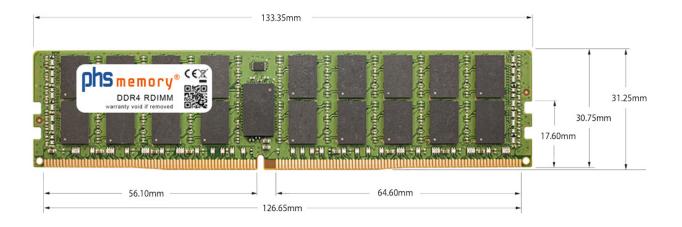
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- many years of IT competence
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- Incoming goods inspection include checks of the DRAMs, PCBs and the programmed SPDs in order to exclude possible errors (Controlled BOM).
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- Products with unique serial number for service and warranty
- Pre-sales and after-sales support by technically trained personnel



Memory Specification



Memory size	128GB		
Memory technology	DDR4		
ECC support	yes		
JEDEC Norm	PC4-23400-R		
DRAM Organization	3DS 2H 8Gx4		
Rank	4Rx4 (2S2Rx4)		
Туре	RDIMM (ECC Registered) 3DS		
Number of pins	288 Pin DIMM		
Memory data transfer rate	2933MHz @ CL21		
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	yes SP469312		
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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:

Device typeServerDevice familyStorage ServerDevice seriesS451 SerieDevice nameS451-3R0 (rev. 100)Maximum memory*4TB / 2TB according to manufacturerNumber of memory sockets16	System manufacturer	Gigabyte
Device series S451 Serie Device name S451-3R0 (rev. 100) Maximum memory* 4TB / 2TB according to manufacturer	Device type	Server
Device name S451-3R0 (rev. 100) Maximum memory* 4TB / 2TB according to manufacturer	Device family	Storage Server
Maximum memory* 4TB / 2TB according to manufacturer	Device series	S451 Serie
	Device name	S451-3R0 (rev. 100)
Number of memory sockets 16	Maximum memory*	4TB / 2TB according to manufacturer
	Number of memory sockets	16

^{*} The specifications for the maximum memory upgrade may differ from those of the manufacturer Gigabyte. 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 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 2nd 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	max. memory capacity je CPU	
Bronze	3200	2133	1 TB	
Silver	4200	2400	1 TB	
Gold	5200	2666	1 TB, 2 TB, 4,5 TB	
Gold	6200	2666	1 TB, 2 TB, 4,5 TB	
Platinum	8200	2933	1 TB, 2 TB, 4,5 TB	
Platinum	9200	2933	1,5 TB	



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 Gigabyte S451-3R0 (rev. 100)

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
8GB	SP363455	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
16GB	SP363452	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
32GB	SP363453	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
64GB	SP363454	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
64GB	SP363451	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	
128GB	SP469312	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP363450	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	
256GB	SP469311	DDR4	LRDIMM (ECC LR DIMM) 3DS	288 Pin DIMM	PHS-memory®	
256GB	SP471777	DDR4	RDIMM (ECC Registered) 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.it/-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

Product Datasheet | SP469312 128GB Computer memory for S451-3R0 (rev. 100)



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