# phs memory®

# 64GB Computer memory DDR4 for Supermicro SuperServer 2049P-TN8R RDIMM



## 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	64GB			
Memory technology	DDR4			
ECC support	ja			
JEDEC Norm	PC4-23400R			
DRAM Organization	4Gx4			
Rank	2Rx4			
Туре	RDIMM (ECC Registered)			
Number of pins	pins 288 Pin DIMM			
Memory data transfer rate	2933MHz @ CL21			
Voltage	1,2 Volt			
Speciality	-, DDP			
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	SP358047			
EAN	4064578207229			

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	Supermicro
Device type	Server
Device family	SuperServer
Device series	2049 Serie
Device name	SuperServer 2049P-TN8R
Maximum memory*	12TB
Number of memory sockets	48

\* The specifications for the maximum memory upgrade may differ from those of the manufacturer Supermicro. 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	3200 2133		
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.

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# Further memory options for Supermicro SuperServer 2049P-TN8R

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
8GB	SP358048	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	MEM-DR480LB- ER29
16GB	SP358045	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	MEM-DR416LD- ER29, MEM- DR416LA-ER29
32GB	SP358046	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	MEM-DR432LC- ER29
64GB	SP358049	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	MEM-DR464LE- LR29
64GB	SP358047	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	MEM-DR464MC- ER29
128GB	SP472702	DDR4	LRDIMM (ECC LR DIMM) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP469159	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP358044	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	
256GB	SP472703	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
256GB	SP469158	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.es/-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.es