

# 64GB Computer memory DDR4 for Supermicro X10DRi-O RDIMM 3DS





# 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	64GB		
Memory technology	DDR4		
ECC support	yes		
JEDEC Norm	PC4-2666V-R		
DRAM Organization	3DS 2H 4Gx4		
Rank	4Rx4 (2S2Rx4)		
Туре	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	SP463640		
EAN	4067488271533		

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-Mainboard
Device family	Mainboard X
Device series	X10 Serie
Device name	X10DRi-O
Maximum memory*	4TB / 1TB according to manufacturer
Number of memory sockets	16

<sup>\*</sup> 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.
- 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.

#### memory for Intel Xeon CPUs:

CPU / System	RDIMM	LRDIMM	
Xeon E5-16xx v3	8GB RDIMM	32GB LRDIMM	
Xeon E5-26xx v3	16GB RDIMM	64GB LRDIMM DDP	
Xeon E5-46xx v3	32GB RDIMM	128GB LRDIMM DDP	
	64GB RDIMM DDP	128GB LRDIMM 3DS	
	128GB RDIMM 3DS	256GB LRDIMM 3DS	
	256GB RDIMM 3DS		



# 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 Supermicro X10DRi-O

8GB         SP151486         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           16GB         SP151485         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           32GB         SP463639         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP151484         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           64GB         SP463640         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463641         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463637         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463642         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463638         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®	Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
Registered)           32GB         SP463639         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP151484         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           64GB         SP463640         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463641         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463637         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463642         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463638         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	8GB	SP151486	DDR4	·	288 Pin DIMM	PHS-memory®	
Registered)           64GB         SP151484         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           64GB         SP463640         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463641         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463637         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463642         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463638         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	16GB	SP151485	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM)         LR DIMM)           64GB         SP463640         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463641         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP463637         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463642         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463638         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	32GB	SP463639	DDR4	`	288 Pin DIMM	PHS-memory®	
Registered) 3DS         128GB       SP463641       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         128GB       SP463637       DDR4       LRDIMM (ECC LR DIMM) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP463642       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP463638       DDR4       LRDIMM (ECC 288 Pin DIMM       PHS-memory®	64GB	SP151484	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS         128GB       SP463637       DDR4       LRDIMM (ECC LR DIMM) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP463642       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP463638       DDR4       LRDIMM (ECC 288 Pin DIMM       PHS-memory®	64GB	SP463640	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM) 3DS           256GB         SP463642         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP463638         DDR4         LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP463641	DDR4		288 Pin DIMM	PHS-memory®	
Registered) 3DS  256GB SP463638 DDR4 LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP463637	DDR4	•	288 Pin DIMM	PHS-memory®	
·	256GB	SP463642	DDR4	•	288 Pin DIMM	PHS-memory®	
22, 323	256GB	SP463638	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.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 | SP463640 64GB Computer memory for X10DRi-O



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