

# 128GB Computer memory DDR4 for Supermicro X10DRG-O+-CPU LRDIMM 3DS





# 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	128GB
Memory technology	DDR4
ECC support	yes
JEDEC Norm	PC4-23400-L
DRAM Organization	3DS 4H 8Gx4
Rank	8Rx4 (2S4Rx4)
Туре	LRDIMM (ECC LR DIMM) 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	SP471209
EAN	4067488347016

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	X10DRG-O+-CPU		
Maximum memory*	6TB		
Number of memory sockets	24		

<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.

# 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 X10DRG-O+-CPU

8GB         SP434440         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         MEM-DR480L-CL01-ER21           16GB         SP434438         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®         MEM-DR416L-IL02-ER21           32GB         SP434439         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP434435         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           64GB         SP471211         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471212         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471209         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP474805         DDR4         LRDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP471213         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           LR DIMM) (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®         LRDIMM (ECC Registered) 3DS	Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
Registered)         IL02-ER21           32GB         SP434439         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP434435         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           64GB         SP471211         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471212         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471209         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP474805         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP471213         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP471210         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	8GB	SP434440	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered)           64GB         SP434435         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           64GB         SP471211         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471212         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471209         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP474805         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP471213         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP471210         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	16GB	SP434438	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM)         LR DIMM)           64GB         SP471211         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471212         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP471209         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP474805         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP471213         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP471210         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	32GB	SP434439	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS         128GB       SP471212       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         128GB       SP471209       DDR4       LRDIMM (ECC LR DIMM) 3DS       288 Pin DIMM       PHS-memory®         128GB       SP474805       DDR4       LRDIMM (ECC LR DIMM)       288 Pin DIMM       PHS-memory®         256GB       SP471213       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP471210       DDR4       LRDIMM (ECC 288 Pin DIMM       PHS-memory®	64GB	SP434435	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS         128GB       SP471209       DDR4       LRDIMM (ECC LR DIMM) 3DS       288 Pin DIMM       PHS-memory®         128GB       SP474805       DDR4       LRDIMM (ECC LR DIMM)       288 Pin DIMM       PHS-memory®         256GB       SP471213       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP471210       DDR4       LRDIMM (ECC 288 Pin DIMM       PHS-memory®	64GB	SP471211	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM) 3DS         128GB       SP474805       DDR4       LRDIMM (ECC LR DIMM)       288 Pin DIMM       PHS-memory®         256GB       SP471213       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP471210       DDR4       LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP471212	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM)         LR DIMM)           256GB         SP471213         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP471210         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	128GB	SP471209	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS  256GB SP471210 DDR4 LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP474805	DDR4	•	288 Pin DIMM	PHS-memory®	
(	256GB	SP471213	DDR4	•	288 Pin DIMM	PHS-memory®	
	256GB	SP471210	DDR4	•	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

PHS-electronic gmbh - www.phs-memory.it - Karl-Götz-Str. 5 97424 Schweinfurt Germania

Phone: +49 9721 784678 E-Mail: info@phs-memory.it Web: www.phs-memory.it

#### Product Datasheet | SP471209 128GB Computer memory for X10DRG-O+-CPU



All information without guarantee. Technical changes and errors excepted. You can find current price information in our online shop at https://www.phs-memory.it