

# 256GB Computer memory DDR4 for Supermicro X12DPL-NT6 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	256GB
Memory technology	DDR4
ECC support	yes
JEDEC Norm	PC4-25600-L
DRAM Organization	3DS 4H 16Gx4
Rank	8Rx4 (2S4Rx4)
Туре	LRDIMM (ECC LR DIMM) 3DS
Number of pins	288 Pin DIMM
Memory data transfer rate	3200MHz @ CL22
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
RoHS compliant SKU	yes SP462625
·	

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	X12 Serie
Device name	X12DPL-NT6
Maximum memory*	2TB
Number of memory sockets	8

<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.
- 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.

#### Maximum memory speed of possible CPUs

Xeon CPUs of the 3nd 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	CPU xxxxH	CPU xxxxHL
Silver	4300	2666	6 TB		
Gold	5300	2933	6 TB	1,2 TB	4,5 TB
Gold	6300	3200	6 TB	1,2 TB	4,5 TB
Platinum	8300	3200	6 TB	1,2 TB	4,5 TB

## Information on memory installation

#### Product Datasheet | SP462625

256GB Computer memory for X12DPL-NT6



- 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 X12DPL-NT6

8GB         SP473661         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           16GB         SP382104         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           32GB         SP382105         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP382106         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP382102         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473660         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP382103         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP462624         DDR4         LRDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP470559         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP462625         DDR4         LRDIMM (ECC LR DIMM) (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®	Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
Registered)           32GB         SP382105         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP382106         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP382102         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473660         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP382103         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP462624         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP470559         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP462625         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	8GB	SP473661	DDR4	,	288 Pin DIMM	PHS-memory®	
Registered)           64GB         SP382106         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP382102         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473660         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP382103         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP462624         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP470559         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP462625         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	16GB	SP382104	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered)           64GB         SP382102         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473660         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP382103         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP462624         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP470559         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP462625         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	32GB	SP382105	DDR4	,	288 Pin DIMM	PHS-memory®	
LR DIMM)         LR DIMM)           128GB         SP473660         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP382103         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP462624         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP470559         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP462625         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	64GB	SP382106	DDR4	,	288 Pin DIMM	PHS-memory®	
LR DIMM) 3DS         128GB       SP382103       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         128GB       SP462624       DDR4       LRDIMM (ECC LR DIMM)       288 Pin DIMM       PHS-memory®         256GB       SP470559       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM       PHS-memory®         256GB       SP462625       DDR4       LRDIMM (ECC 288 Pin DIMM       PHS-memory®	64GB	SP382102	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS           128GB         SP462624         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           256GB         SP470559         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP462625         DDR4         LRDIMM (ECC 288 Pin DIMM         PHS-memory®	128GB	SP473660	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM)  256GB SP470559 DDR4 RDIMM (ECC Registered) 3DS  256GB SP462625 DDR4 LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP382103	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS  256GB SP462625 DDR4 LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP462624	DDR4	•	288 Pin DIMM	PHS-memory®	
· ·	256GB	SP470559	DDR4	,	288 Pin DIMM	PHS-memory®	
	256GB	SP462625	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.es/-W5Y



### Contact Information

PHS-electronic gmbh - www.phs-memory.es -Karl-Götz-Str. 5 97424 Schweinfurt Alemania Phone: +49 9721 784678 E-Mail: info@phs-memory.es Web: www.phs-memory.es

## Product Datasheet | SP462625 256GB Computer memory for X12DPL-NT6



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