

# 32GB Computer memory DDR4 for Supermicro Hyper SuperServer SYS-220H-TN24R RDIMM





# 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	32GB		
Memory technology	DDR4		
ECC support	yes		
JEDEC Norm	PC4-25600-R		
Туре	RDIMM (ECC Registered)		
Number of pins	288 Pin DIMM		
Memory data transfer rate	3200MHz @ CL22		
Voltage	1,2 Volt		
Speciality	-		
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	SP415221		
EAN	4064578782818		

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	Super		
Device series	SYS-220 Serie		
Device name	Hyper SuperServer SYS-220H-TN24R		
Maximum memory*	8TB		
Number of memory sockets	32		

<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.

### 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  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($
  - 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 Hyper SuperServer SYS-220H-TN24R

8GB         SP473473         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           16GB         SP415220         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           32GB         SP415221         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP415222         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP415219         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473472         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP415218         DDR4         LRDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           256GB         SP470992         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           256GB         SP470993         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®	Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
Registered)           32GB         SP415221         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP415222         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP415219         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473472         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP415218         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP470992         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP425300         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP470993         DDR4         RDIMM (ECC 288 Pin DIMM         PHS-memory®	8GB	SP473473	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered)           64GB         SP415222         DDR4         RDIMM (ECC Registered)         288 Pin DIMM         PHS-memory®           64GB         SP415219         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473472         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP415218         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP470992         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP425300         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP470993         DDR4         RDIMM (ECC 288 Pin DIMM         PHS-memory®	16GB	SP415220	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered)           64GB         SP415219         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP473472         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP415218         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP470992         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP425300         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP470993         DDR4         RDIMM (ECC 288 Pin DIMM         PHS-memory®	32GB	SP415221	DDR4		288 Pin DIMM	PHS-memory®	
LR DIMM)         LR DIMM)           128GB         SP473472         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           128GB         SP415218         DDR4         LRDIMM (ECC LR DIMM)         288 Pin DIMM         PHS-memory®           128GB         SP470992         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP425300         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP470993         DDR4         RDIMM (ECC RDIMM) (ECC 288 Pin DIMM         PHS-memory®	64GB	SP415222	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM) 3DS         128GB       SP415218       DDR4       LRDIMM (ECC LR DIMM)       288 Pin DIMM PHS-memory®         128GB       SP470992       DDR4       RDIMM (ECC Registered) 3DS       288 Pin DIMM PHS-memory®         256GB       SP425300       DDR4       LRDIMM (ECC LR DIMM) 3DS       288 Pin DIMM PHS-memory®         256GB       SP470993       DDR4       RDIMM (ECC 288 Pin DIMM PHS-memory®	64GB	SP415219	DDR4	`	288 Pin DIMM	PHS-memory®	
LR DIMM)         LR DIMM)           128GB         SP470992         DDR4         RDIMM (ECC Registered) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP425300         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP470993         DDR4         RDIMM (ECC 288 Pin DIMM         PHS-memory®	128GB	SP473472	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS           256GB         SP425300         DDR4         LRDIMM (ECC LR DIMM) 3DS         288 Pin DIMM         PHS-memory®           256GB         SP470993         DDR4         RDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP415218	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM) 3DS  256GB SP470993 DDR4 RDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP470992	DDR4	•	288 Pin DIMM	PHS-memory®	
· · · · · · · · · · · · · · · · · · ·	256GB	SP425300	DDR4	•	288 Pin DIMM	PHS-memory®	
	256GB	SP470993	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

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### Product Datasheet | SP415221 32GB Computer memory for Hyper SuperServer SYS-220H-TN24R



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