

# 128GB Computer memory DDR4 for Supermicro AI Training SuperServer SYS-820GH-TNR2 LRDIMM 3DS



Preis auf Anfrage

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## 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               | 128GB                    |
| Memory technology         | DDR4                     |
| ECC support               | ja                       |
| JEDEC Norm                | PC4-25600-L              |
| DRAM Organization         | 3DS 4H 8Gx4              |
| Rank                      | 8Rx4 (2S4Rx4)            |
| Type                      | 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                      |
| SKU                       | SP581152                 |
| EAN                       | 4069169529735            |

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 system:

|                                 |                                        |
|---------------------------------|----------------------------------------|
| <b>System manufacturer</b>      | Supermicro                             |
| <b>Device type</b>              | Server                                 |
| <b>Device family</b>            | AI Training SuperServer                |
| <b>Device series</b>            | SYS-820 Serie                          |
| <b>Device name</b>              | AI Training SuperServer SYS-820GH-TNR2 |
| <b>Maximum memory*</b>          | 8TB                                    |
| <b>Number of memory sockets</b> | 32                                     |

\* 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 3rd 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

- 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 AI Training SuperServer SYS-820GH-TNR2

| Size  | SKU      | Technology | Type                       | Number of pins | Brand       | Reference no. |
|-------|----------|------------|----------------------------|----------------|-------------|---------------|
| 8GB   | SP581146 | DDR4       | RDIMM (ECC Registered)     | 288 Pin DIMM   | PHS-memory® |               |
| 16GB  | SP581147 | DDR4       | RDIMM (ECC Registered)     | 288 Pin DIMM   | PHS-memory® |               |
| 32GB  | SP581148 | DDR4       | RDIMM (ECC Registered)     | 288 Pin DIMM   | PHS-memory® |               |
| 64GB  | SP581149 | DDR4       | RDIMM (ECC Registered)     | 288 Pin DIMM   | PHS-memory® |               |
| 64GB  | SP581143 | DDR4       | LRDIMM (ECC LR DIMM)       | 288 Pin DIMM   | PHS-memory® |               |
| 128GB | SP581152 | DDR4       | LRDIMM (ECC LR DIMM) 3DS   | 288 Pin DIMM   | PHS-memory® |               |
| 128GB | SP581150 | DDR4       | RDIMM (ECC Registered) 3DS | 288 Pin DIMM   | PHS-memory® |               |
| 128GB | SP581144 | DDR4       | LRDIMM (ECC LR DIMM)       | 288 Pin DIMM   | PHS-memory® |               |
| 256GB | SP581151 | DDR4       | RDIMM (ECC Registered) 3DS | 288 Pin DIMM   | PHS-memory® |               |
| 256GB | SP581145 | 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.fr/-/W5Y>



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## 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.fr>