

128GB Computer memory DDR4 for QNAP TDS-h2489FU-R2-4309Y-64G LRDIMM



958,57 EUR

plus VAT

1.140,70 EUR

incl. VAT

immediately available

<https://www.phs-memory.com>

Version: 03.09.2025 16:21

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	8Gx4
Rank	4Rx4 (4DRx4 DDP)
Type	LRDIMM (ECC LR DIMM)
Number of pins	288 Pin DIMM
Memory data transfer rate	3200MHz @ CL22
Voltage	1,2 Volt
Speciality	DDP
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	SP583356
EAN	4069169553266

overRAMing - maximize your RAM



**overRAMing
Project**

Most systems - including the QNAP TDS-h2489FU-R2-4309Y-64G - can be upgraded with more memory than originally specified by the device manufacturer.

Therefore, our memory specialists continuously analyze new memory solutions in selected systems. Due to improved manufacturing technologies, new memories with higher performance and capacity will be tested for stability and functionality.

Then the new memory solutions are released for the respective systems. Use the benefits of larger computer memory capacity with the PHS-memory® overRAMing memory solutions.

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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:

System manufacturer	QNAP
Device type	Storage/NAS
Device family	NAS TDS
Device series	TDS-h2489FU Serie
Device name	TDS-h2489FU-R2-4309Y-64G
Standard memory	64GB (8x8GB)
Maximum memory*	8TB / 1TB according to manufacturer
Number of memory sockets	32

* The specifications for the maximum memory upgrade may differ from those of the manufacturer QNAP. 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.

Memory modules with our overRAMing-symbol are approved by us for maximum memory expansion.

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 QNAP TDS-h2489FU-R2-4309Y-64G

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
8GB	SP583358	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	RAM-8GDR4ECT0-RD-3200
16GB	SP583359	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	RAM-16GDR4ECT0-RD-3200
32GB	SP583360	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	RAM-32GDR4ECT0-RD-3200
64GB	SP583361	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
64GB	SP583355	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	
128GB	SP583362	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP583356	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	
256GB	SP583363	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
256GB	SP583357	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.com/-W5Y>



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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.com>