

# 128GB Computer memory DDR4 for QNAP TDS-h2489FU RDIMM 3DS





# verified quality memory 5 years warranty Warranty details see last page 100% compatible

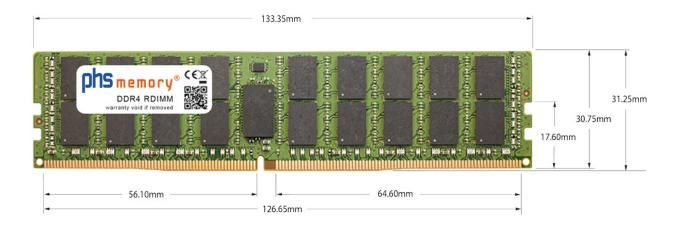
- ✓ 100% compatible
- free support on our hotline
- fast delivery

#### 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-R		
DRAM Organization	3DS 2H 8Gx4		
Rank	4Rx4 (2S2Rx4)		
Туре	RDIMM (ECC Registered) 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	SP515237		
EAN	4067488793448		

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	QNAP	
Device type	Storage/NAS	
Device family	NAS TDS	
Device series	TDS-h2489FU Serie	
Device name	TDS-h2489FU	
Maximum memory*	8TB	
Number of memory sockets	32	

<sup>\*</sup> 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.

### Information on memory allocation

#### Attention: Different storage technologies can be used

RDIMMs, LRDIMMs, 3DS RDIMMs werden supports, die verschiedenen Speichertechnologien können nicht gemischt werden.

## 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

Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
8GB	SP407808	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
16GB	SP407804	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
32GB	SP407805	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
64GB	SP515236	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	
128GB	SP515237	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
256GB	SP515238	DDR4	RDIMM (ECC Registered) 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.it/-W5Y



#### 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.it