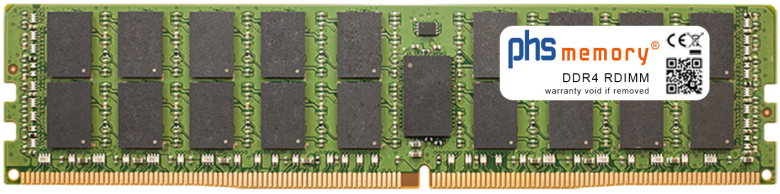
64GB Computer memory DDR4 for QNAP TDS-16489U-SB2 RDIMM 3DS



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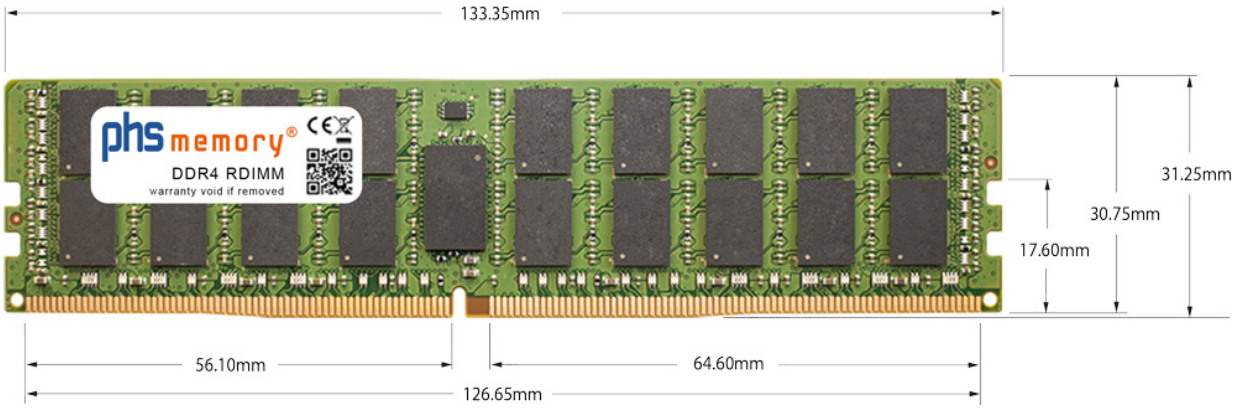
Memory Specification



Memory size	64GB
Memory technology	DDR4
ECC support	ja
JEDEC Norm	PC4-21300R
DRAM Organization	3DS 2H 4Gx4
Rank	4Rx4 (2S2Rx4)
Type	RDIMM (ECC Registered) 3DS
Number of pins	288 Pin DIMM
Memory data transfer rate	2666MHz @ CL19
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	SP453662
EAN	4067488170409

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.

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System Specifications

The memory is 100% compatible with this sytem:

System manufacturer	QNAP
Device type	Storage/NAS
Device family	NAS TDS
Device series	TDS-16489U Serie
Device name	TDS-16489U-SB2
Standard memory	128GB (8x16GB)
Maximum memory*	4TB
Number of memory sockets	16

* 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

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.
- 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.

memory for Intel Xeon CPUs:

CPU / System	RDIMM	LRDIMM
Xeon E5-16xx v3	8GB RDIMM	32GB LRDIMM
Xeon E5-26xx v3	16GB RDIMM	64GB LRDIMM DDP
Xeon E5-46xx v3	32GB RDIMM	128GB LRDIMM DDP
	64GB RDIMM DDP	128GB LRDIMM 3DS
	128GB RDIMM 3DS	256GB LRDIMM 3DS
	256GB RDIMM 3DS	

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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.

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Further memory options for QNAP TDS-16489U-SB2

Size	SKU	Technology	Type	Number of pins	Brand	Reference no.
8GB	SP240557	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	RAM-8GDR4-RD-2400
16GB	SP153589	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	RAM-16GDR4-RD-2400
32GB	SP153590	DDR4	RDIMM (ECC Registered)	288 Pin DIMM	PHS-memory®	RAM-32GDR4-RD-2400, RAM-32GDR4ECK0-RD-2666
64GB	SP453662	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	RAM-64GDR4-RD-2400
64GB	SP407567	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	RAM-64GDR4ECS0-LR-2666
128GB	SP453663	DDR4	RDIMM (ECC Registered) 3DS	288 Pin DIMM	PHS-memory®	
128GB	SP453660	DDR4	LRDIMM (ECC LR DIMM)	288 Pin DIMM	PHS-memory®	
128GB	SP453659	DDR4	LRDIMM (ECC LR DIMM) 3DS	288 Pin DIMM	PHS-memory®	
256GB	SP453661	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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