

16GB Computer memory DDR4 for QNAP TDS-16489U-SB2 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	16GB
Memory technology	DDR4
ECC support	ja
JEDEC Norm	PC4-21300R
Туре	RDIMM (ECC Registered)
Number of pins	288 Pin DIMM
Memory data transfer rate	2666MHz @ CL19
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	SP153589
EAN	4055069266122

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-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	



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-16489U-SB2

8GB SP240557 DDR4 RDIMM (ECC Registered) 288 Pin DIMM PHS-memory® PHS-memory® PAM-8GDR4-RD -2400 16GB SP153589 DDR4 RDIMM (ECC Registered) 288 Pin DIMM PHS-memory® PhS-memor	Size	SKU	Technology	Туре	Number of pins	Brand	Reference no.
Registered) D-2400 32GB SP153590 DDR4 RDIMM (ECC Registered) 288 Pin DIMM PHS-memory® PhS-memory® PhS-memory® RAM-32 GDR4-R D-2400, RAM-32 GDR4ECK0-RD-2666 64GB SP453662 DDR4 RDIMM (ECC Registered) 3DS 288 Pin DIMM PHS-memory® PhS-memory® RAM-64GDR4-R D-2400 64GB SP407567 DDR4 LRDIMM (ECC LR DIMM) 288 Pin DIMM PHS-memory® RAM-64GDR4EC S0-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 SP453661 DDR4 LRDIMM (ECC LR DIMM) 288 Pin DIMM PHS-memory®	8GB	SP240557	DDR4	`	288 Pin DIMM	PHS-memory®	
Registered) D-2400, RAM-32 GDR4ECK0-RD-2 666 64GB SP453662 DDR4 RDIMM (ECC Registered) 3DS 288 Pin DIMM PHS-memory® PHS-m	16GB	SP153589	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS D-2400 64GB SP407567 DDR4 LRDIMM (ECC LR DIMM) 288 Pin DIMM PHS-memory® SO-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 288 Pin DIMM PHS-memory®	32GB	SP153590	DDR4	•	288 Pin DIMM	PHS-memory®	D-2400, RAM-32 GDR4ECK0-RD-2
LR DIMM) SO-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 288 Pin DIMM PHS-memory®	64GB	SP453662	DDR4	•	288 Pin DIMM	PHS-memory®	
Registered) 3DS 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 288 Pin DIMM PHS-memory®	64GB	SP407567	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM) 128GB SP453659 DDR4 LRDIMM (ECC LR DIMM) 3DS 288 Pin DIMM PHS-memory® 256GB SP453661 DDR4 LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP453663	DDR4	•	288 Pin DIMM	PHS-memory®	
LR DIMM) 3DS 256GB SP453661 DDR4 LRDIMM (ECC 288 Pin DIMM PHS-memory®	128GB	SP453660	DDR4	•	288 Pin DIMM	PHS-memory®	
=======================================	128GB	SP453659	DDR4	•	288 Pin DIMM	PHS-memory®	
	256GB	SP453661	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.com/-W5Y



Contact Information

PHS-electronic gmbh - www.phs-memory.com -Karl-Götz-Str. 5 97424 Schweinfurt Germany Phone: +49 9721 784678 E-Mail: info@phs-memory.com Web: www.phs-memory.com

Product Datasheet | SP153589 16GB Computer memory for TDS-16489U-SB2



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