



TDS-16489U-SE2-R2 (Legacy)

CPU	Intel® E5-2620 v4 8-core 2.1 GHz processor x2 *Available with customization requirement
CPU Architecture	64-bit x86
Floating Point Unit	Yes
Encryption Engine	Yes (AES-NI)
Hardware-accelerated Transcoding	QTS: Optional via a PCIe graphics card QES: N/A
System Memory	128GB RDIMM DDR4 (8 x 16GB)
Maximum Memory	RDIMM/LRDIMM: 1 TB (16 x 64 GB)
Memory Slot	16 x RDIMM DDR4 You can only use one type of dual in-line memory module (DIMM) at a time. Do not use registered DIMM (RDIMM) with load-reduction DIMM (LRDIMM) memory. For the memory installation guidelines, see chapter 5 of the TDS-16489U User Guide .
Flash Memory	4GB (DOM for dual OS)
Drive Bay	Front: 16 x 3.5-inch Rear: 4 x 2.5-inch
Drive Compatibility	3.5-inch bays: 3.5-inch SATA/SAS hard disk drives 2.5-inch SATA/SAS hard disk drives 2.5-inch SATA/SAS solid state drives 2.5-inch bays: 2.5-inch SATA/SAS solid state drives
Hot-swappable	Yes
SSD Cache Acceleration Support	Yes
GPU pass-through	Yes
SR-IOV	Yes

Gigabit Ethernet Port (RJ45)	2 For a list of compatible network adapters, please visit the Compatibility List . For instructions on how to install network adapters, please refer to Chapter 6 of the QNAP NAS Hardware Manual .
10 Gigabit Ethernet Port	4 x 10GbE SFP+
Wake on LAN (WOL)	Yes
Jumbo Frame	Yes
PCIe Slot	4 Slot 1: PCIe Gen 3 x16 Slot 2: PCIe Gen 3 x8 Slot 3: PCIe Gen 3 x8 Slot 4: PCIe Gen 3 x8
USB 3.2 Gen 1 port	4
IPMI	3 (LAN, VGA, console) *Only work with QTS OS
Form Factor	3U Rackmount
LED Indicators	HDD 1-16, Status, 10 GbE, LAN, storage expansion port status
Buttons	Power, Reset
Dimensions (HxWxD)	130.8 × 444 × 744 mm
Weight (Net)	22.42 kg
Weight (Gross)	30.19 kg
Operating Temperature	0 - 40 °C (32°F - 104°F)
Storage Temperature	-20 - 70°C (-4°F - 158°F)
Relative Humidity	5-95% RH non-condensing, wet bulb: 27°C (80.6°F)
Power Supply Unit	Redundant/ Hot Swap ATX Power Supply, Input: 50-60 Hz 100-127V~/ 10A 200-240V/ 5A Output: 770W
Power Consumption: HDD Sleep Mode	254.21 W
Power Consumption: Operating Mode, Typical	362.86 W Tested with drives fully populated.
Fan	4 x 60mm, 12VDC
System Warning	Buzzer
Standard Warranty	5

Max. Number of Concurrent Connections (CIFS) - with Max. Memory	10000
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Note: Use only QNAP memory modules to maintain system performance and stability. For NAS devices with more than one memory slot, use QNAP modules with identical specifications and refer to the hardware user manual to install compatible QNAP memory modules.

Warning: Using unsupported modules may degrade performance, cause errors, or prevent the operating system from starting. QNAP reserves the right to replace partial parts or accessories if the original is no longer available from its manufacturer/supplier. Any replacement would be fully tested and verified to meet strict compatibility and stability guidelines and will deliver identical performance to the original.

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