QNAP

TDS-16489U-SE2-R2

CPU	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)
System Memory	128GB RDIMM DDR4 (8 x 16GB)
Maximum Memory	RDIMM/LRDIMM: 1 TB (16 x 64 GB)
Memory Slot	16 x Long-DIMM 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
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+
Jumbo Frame	Yes
PCIe Slot	4 (3 x PCIe Gen3 x8, 1 x PCIE Gen3 x16)
USB 3.0 port	4
IPMI	1

Form Factor	3U Rack Mount
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)
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~/ 8.5A 200-240V/ 4.2A Output: 770W
Power Consumption: HDD Sleep Mode	254.21 W
Power Consumption: Operating Mode, Typical	362.86 W
Fan	4 x 6cm smart cooling fan (12V DC)
Sound Level	37.8 db(A)

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. Warning: Using unsupported modules may degrade performance, cause errors, or prevent the operating system from starting.

* Sound Level Test Environment: Refer to ISO 7779; Maximum HDD loaded; Bystander Position; Average data from 1 meter in front of operating NAS.

Designs and specifications are subject to change without notice.