



## TES-3085U-D1521-16GR (Legacy)

CPU	Intel® Xeon® D-1521 4-core 2.4 GHz processor, Max turbo to 2.7 GHz.
CPU Architecture	64-bit x86
Floating Point Unit	Yes
Encryption Engine	Yes (AES-NI)
System Memory	16 GB RDIMM DDR4 ECC (2 x 8 GB)
Maximum Memory	UDIMM: 64 GB (4 x 16 GB) RDIMM: 128GB (4 x 32 GB)
Memory Slot	4 x RDIMM DDR4  32 GB (above) RAM is required for QES operating system. You can only use one type of dual in-line memory module (DIMM) at a time. Do not use registered DIMM (RDIMM) with unbuffer DIMM (UDIMM) memory.
Flash Memory	4GB (DOM for dual OS)
Drive Bay	Front: 24 x 2.5-inch Rear: 6 x 2.5-inch
Drive Compatibility	Front 2.5-inch bays: 2.5-inch SAS/SATA hard disk drives 2.5-inch SAS/SATA solid state drives  Rear 2.5-inch bays: 2.5-inch SATA solid state drives
Hot-swappable	Yes
SSD Cache Acceleration Support	Yes
GPU pass-through	Yes
Gigabit Ethernet Port (RJ45)	4
10 Gigabit Ethernet Port	2 x 10GbE SFP+
Wake on LAN (WOL)	Yes
Jumbo Frame	Yes

PCIe Slot	4 Slot 1: PCIe Gen 3 x8 Slot 2: PCIe Gen 2 x4 Slot 3: PCIe Gen 3 x4 Slot 4: PCIe Gen 3 x4 or PCIe Gen 3 x8  Slot 4 provides the width of PCIe Gen.3 x8 when slot 3 is not in use. Slot 4 then provides the width of PCIe Gen.3 x4 only when an expansion board is installed in slot 3.
USB 3.2 Gen 1 port	2
Form Factor	2U Rackmount
LED Indicators	HDD, Status, 10 GbE, LAN, storage expansion port status
Buttons	Power, Reset
Dimensions (HxWxD)	88.3 × 439 × 484.5 mm
Weight (Net)	14.15 kg
Weight (Gross)	22.27 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: 47-63 Hz 100-127V~/ 8A 200-240V/ 4A Output: 450W
Power Consumption: Operating Mode, Typical	255.04 W
Fan	4 x 60mm
System Warning	Buzzer
Standard Warranty	5
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	10000

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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