



TDS-16489U-SF2-R2

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| CPU | E5-2630 v4 10-core 2.2 GHz processor x2 |
| 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 Long-DIMM DDR4 |
| 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 |
| 10 Gigabit Ethernet Port | 4 x 10GbE SFP+ |
| Jumbo Frame | Yes |

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| 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) |
| 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 |
| Fan | 4 x 60mm, 12VDC |
| Sound Level | 37.8 db(A) |
| System Warning | Buzzer |
| Max. Number of Concurrent Connections (CIFS) | QTS: 1500 QES: 1500 |

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.