



## TDS-h2489FU-R2-4314-256G

CPU	2 x Intel® Xeon® Silver 4314 16-core/32-thread processor, up to 3.4 GHz
CPU Architecture	64-bit x86
Encryption Engine	Yes (AES-NI)
System Memory	256 GB RDIMM DDR4 ECC (8 x 32 GB)
Maximum Memory	1 TB (32 x 32 GB)
Memory Slot	32 x RDIMM DDR4 ECC (16 x slots per socket)
Flash Memory	5GB (Dual boot OS protection)
Drive Bay	24 (16 x 2.5-inch U.2 PCIe NVMe + 8 x 2.5-inch U.2 PCIe NVMe/SATA 6Gbps)
	The system is shipped without SSD. For the SSD compatibility list, please visit <a href="https://www.qnap.com/compatibility/">https://www.qnap.com/compatibility/</a>
Drive Compatibility	2.5-inch bays: 2.5-inch SATA solid state drives (#17-24) 2.5-inch U.2 NVMe PCIe Gen4 x4 solid state drives
Hot-swappable	Yes (Not supported M.2 SSD)
M.2 Slot	2 Slot 1: M.2 2280 NVMe PCIe Gen 3 x4 or SATA 6Gb/s Slot 2: M.2 2280 NVMe PCIe Gen 3 x2 or SATA 6Gb/s  Compatible with NVMe SSD PCIe Gen 3 and above. Please refer to <a href="https://www.qnap.com/compatibility/">https://www.qnap.com/compatibility/</a> for compatibility.
SSD Cache Acceleration Support	Yes
SR-IOV	Yes
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	4 (2.5G/1G/100M/10M)
25 Gigabit Ethernet Port	2 x 25GbE SFP28 SmartNIC port
Wake on LAN (WOL)	Yes  Only the 2.5GbE port

Jumbo Frame	Yes
PCIe Slot	4 Slot 1: PCIe Gen4 x16 or Gen4 x8* Slot 2: PCIe Gen4 x8 Slot 3: PCIe Gen4 x16 or Gen4 x8* Slot 4: PCIe Gen4 x8  *Slot 4 is preinstalled with a 25GbE network adapter. **Slot 1 provides the width of PCIe Gen4 x16 when Slot 2 is not in use, and provides the width of PCIe Gen4 x8 when Slot 2 is in use. **Slot 3 provides the width of PCIe Gen4 x16 when Slot 4 is not in use, and provides the width of PCIe Gen4 x8 when Slot 4 is in use. Card dimensions for PCIe slot 1 : 225 x 68.9 x 39.08 mm / 8.86 x 2.71 x 1.54 inches. Card dimensions for PCIe slot 2 : 225 x 68.9 x 18.76 mm / 8.86 x 2.71 x 0.74 inches. Card dimensions for PCIe slot 3 : 225 x 68.9 x 39.08 mm / 8.86 x 2.71 x 1.54 inches. Card dimensions for PCIe slot 4 : 225 x 68.9 x 18.76 mm / 8.86 x 2.71 x 0.74 inches. Wider cards can be installed if the next PCIe slot will not be used.
USB 3.2 Gen 1 port	4
Form Factor	Rackmount
LED Indicators	SSD, Status, Power, Fan, Temperature, Power Module Status, Device Name, IP Address
Buttons	Power, Reset, OLED
Dimensions (HxWxD)	88.3 × 446.2 × 713.2 mm
Weight (Net)	22.77 kg
Weight (Gross)	27.55 kg
Operating Temperature	0 - 35°C (32°F - 95°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	1200W PSU(x2), 100-240Vac Max Wattage: 1200W@200-240Vac 1000W@100-127Vac
Power Consumption: Operating Mode, Typical	467.59 W  Tested with drives fully populated.
Fan	6 x 60mm, 12VDC
System Warning	Buzzer
Standard Warranty	5
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	10,000

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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