Hardware Specification

TS-1277-1600-8G

CPU	Processor: AMD Ryzen™ 5 1600 6-core/12-thread 3.2 GHz processor, Turbo Core 3.6 GHz Architecture: 64-bit Graphics: Optional (with PCIe expansion card) Encryption Engine: AES-NI
System Memory	8 GB DDR4 (2 x 4 GB)
Maximum Memory	64 GB (4 x 16 GB)
Memory Slot	4 x UDIMM DDR4 (For dual- or quad-DIMM configurations, you must use a pair of identical DDR4 modules.)
Flash Memory	512MB DOM
Drive Bay	8 x 3.5-inch SATA 6 Gbps bays 4 x 2.5-inch SATA 6 Gbps bays
Drive Compatibility	3.5-inch bays: 3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives 2.5-inch bays: 2.5-inch solid state drives
M.2 SSD Slot	2 x M.2 2240/2260/2280/22110 SATA 6Gb/s SSDs Note: 1. The M.2 SSD is not included as standard. 2. M.2 SSD operations can easily generate excessive heat. It is recommended to install a heatsink (from ~~QNAP~~ or a third-party provider) on the M.2 SSD.
SSD Cache Acceleration Support	3.5-inch drive bays 1 to 8 2.5-inch drive bays 1 to 4 M.2 slots 1 to 2 Optional: SSD using PCIe expansion slot
Hot-swappable	Yes The following are not hot-swappable: M.2 SSDs, SSD cache drives, SSDs using PCIe expansion slots.

10 Gigabit Ethernet Port	Optional: With PCIe expansion card
Gigabit Ethernet Port	4 x RJ45
PCIe Slot	1 x PCIe 3.0 x8 1 x PCIe 3.0 x4 1 x PCIe 2.0 x4
USB Port	2 x USB 3.1 10 Gbps Back: 1 x USB 3.1 10 Gbps Type-C Back: 1 x USB 3.1 10 Gbps Type-A 6 x USB 3.0 Front: 1 x USB 3.0 Type-A (Note: It comes with the One-Touch Copy button) Back: 5 x USB 3.0 Type-A
HDMI Output	Optional: With PCIe expansion card
Audio	2 x 3.5 mm dynamic microphone jacks 1 x 3.5 mm line-out jack 2 x speakers Note: You cannot use the speakers and the line-out jack simultaneously.
Display Panel	Monochrome backlit LCD display with Enter and Select buttons
USB One Touch Copy	Front: USB 3.0 Type-A
Form Factor	Tower
Dimensions (H x W x D)	234.6 x 369.9 x 319.8 mm 9.23 x 14.56 x 12.59 inch
Net Weight	NAS: 11.27 kg (24.85 lbs) Shipping: 13.49 kg (29.74 lbs)
Power Supply Unit	550W, 100-240V AC, 50/60Hz
Fan	System: 3 x 80 mm CPU: 2 x 90 mm
Operating Temperature & Relative Humidity	0 ~ 40˚C (32˚F ~ 104˚F), 5 ~ 95% RH non-condensing, wet bulb: 27˚C (80.6˚F)
Security Slot	Kensington security slot

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.