

TS-677-1600-8G	
CPU	AMD Ryzen™ 5 1600 6-core/12-thread 3.2 GHz processor (Turbo Core to 3.6 GHz)
CPU Architecture	64-bit x86
Graphic Processors	Optional via a PCIe adapter
Floating Point Unit	Yes
Encryption Engine	Yes (AES-NI)
Hardware-accelerated Transcoding	Optional via a PCIe adapter
System Memory	8 GB UDIMM DDR4 (2 x 4 GB)
Maximum Memory	64 GB (4 x 16 GB)
Memory Slot	4 x UDIMM DDR4
Flash Memory	5GB (Dual boot OS protection)
Drive Bay	4 x 2.5-inch or 3.5-inch + 2 x 2.5-inch
Drive Compatibility	<p>3.5-inch bays:</p> <ul style="list-style-type: none"> 3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives <p>2.5-inch bays:</p> <ul style="list-style-type: none"> 2.5-inch solid state drives
Hot-swappable	Yes
M.2 SSD Slot	<p>2 x M.2 22110/2280/2260/2242 SATA 6Gb/s slots</p> <p>The M.2 SSD is not included as standard. 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.</p>
SSD Cache Acceleration Support	Yes
Gigabit Ethernet Port (RJ45)	4
10 Gigabit Ethernet Port	Optional via a PCIe adapter
Jumbo Frame	Yes
PCIe Slot	<p>Slot 1: PCIe Gen3 (x8)</p> <p>Slot 2: PCIe Gen3 (x4)</p> <p>Slot 3: PCIe Gen2 (x4)</p>
USB 3.0 port	6
USB 3.1 Gen 2 (10Gbps) Port	<p>1 x Type-C USB 3.1 Gen2 10Gbps</p> <p>1 x Type-A USB 3.1 Gen2 10Gbps</p>

IR Sensor	Yes (QNAP RM-IR004)
HDMI Output	Optional via a PCIe adapter
Audio Input	2 x 3.5 mm dynamic microphone jacks
Audio Output	1 x 3.5 mm line-out jack 1 x speaker You cannot use the speakers and the line-out jack simultaneously.
Form Factor	Tower
LED Indicators	System status, 2.5" SSD, M.2 SSD, 3.5" HDD
Buttons	Power, Reset, USB Copy
Dimensions (HxWxD)	231.9 × 224.9 × 319.8 mm
Weight (Net)	7.7 kg
Weight (Gross)	9.35 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	250W, 100-240V AC, 50/60 Hz
Power Consumption: HDD Sleep Mode	41.6 W
Power Consumption: Operating Mode, Typical	54.9 W
Fan	System: 1 x 80 mm CPU: 2 x 90 mm
Sound Level	21.1 db(A)
Kensington Security Slot	Yes

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.