

TS-451+-8G

CPU	Intel® Celeron® J1900 quad-core 2.0 GHz processor (burst up to 2.42 GHz)
CPU Architecture	64-bit x86
Graphic Processors	Intel® HD Graphics
Floating Point Unit	Yes
Hardware-accelerated Transcoding	Yes , up to 1080P
System Memory	8 GB SO-DIMM DDR3L (2 x 4 GB)
Maximum Memory	8 GB (2 x 4GB)
Memory Slot	2 x SO-DIMM DDR3L
Flash Memory	512MB (Dual boot OS protection)
Drive Bay	4 x 3.5-inch SATA 6Gb/s, 3Gb/s
Drive Compatibility	3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives
Hot-swappable	Yes
SSD Cache Acceleration Support	Yes
Gigabit Ethernet Port (RJ45)	2
Wake on LAN (WOL)	Yes
Jumbo Frame	Yes
USB 2.0 port	2
USB 3.2 Gen 1 port	2
IR Sensor	Yes (RM-IR002 & MCE)
HDMI Output	1, (up to 1080p)
Form Factor	Tower

LED Indicators	Power/Status, LAN, USB, HDD1-4
Buttons	Power, Reset, USB Auto Copy
Dimensions (HxWxD)	177 × 180 × 235 mm
Weight (Net)	3 kg
Weight (Gross)	4.3 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	90W adapter, 100-240V
Power Consumption: HDD Sleep Mode	15.78 W
Power Consumption: Operating Mode, Typical	33.88 W
Fan	1 x 120mm, 12VDC
Sound Level	16.9 db(A)
System Warning	Buzzer
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.
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