



TS-AI642-8G	
CPU	8-core ARM Cortex 64-bit Processor ( 4-core Cortex-A76 2.2 GHz + 4-core Cortex-A55 1.8 GHz )
CPU Architecture	64-bit ARM
Graphic Processors	ARM Mali-G610 MC4
Floating Point Unit	Yes
Encryption Engine	Yes
Hardware-accelerated Transcoding	Yes
Neural Processing Unit (NPU)	Yes
System Memory	8 GB on board (non-expandable)
Maximum Memory	8 GB
Flash Memory	4GB (Dual boot OS protection)
Drive Bay	6 x 3.5-inch SATA 6Gb/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
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	1 (2.5G/1G/100M)
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via an adapter
10 Gigabit Ethernet Port	Optional via an adapter

Wake on LAN (WOL)	Yes
Jumbo Frame	Yes
PCIe Slot	1 Slot 1: PCIe Gen 3 x2
USB 2.0 port	2
IR Sensor	Yes (Optional QNAP RM-IR004 remote control)
HDMI Output	2, HDMI 1.4b
Form Factor	Tower
LED Indicators	Power/Status, LAN, USB, HDD1-6
Buttons	Power, USB copy, Reset
Dimensions (HxWxD)	171 × 235 × 226 mm
Weight (Net)	2.92 kg
Weight (Gross)	4.51 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	120W adapter, 100-240V
Power Consumption: HDD Sleep Mode	14.005 W
Power Consumption: Operating Mode, Typical	33.33 W
Fan	2 x 90mm, 12VDC
System Warning	Buzzer
Kensington Security Slot	Yes
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	1,500

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.

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