QNAP

TVS-AIh1688ATX-U9-48G

CPU	Intel Core Ultra 9, 24 (8P+16E) core, 24 Threads, up to 5.6GHz
CPU Architecture	64-bit x86
Graphic Processors	Intel® Graphics
Floating Point Unit	Yes
Encryption Engine	Yes (AES-NI)
Hardware-accelerated Transcoding	Yes
Neural Processing Unit (NPU)	Yes
System Memory	48GB ECC UDIMM DDR5
Maximum Memory	192 GB (4 x 48 GB)
Memory Slot	4 x UDIMM DDR5 For dual-DIMM configurations, you must use a pair of identical DDR5 modules.
Flash Memory	5GB (Dual boot OS protection)
Drive Bay	12 x 3.5-inch SATA 6Gb/s, 3Gb/s + 4 x 2.5-inch U.2 NVMe Gen 4 x2 slots
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 U.2/SATA SSD
Hot-swappable	Yes
SSD Cache Acceleration Support	Yes
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)

5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via an adapter
10 Gigabit Ethernet Port	2 x 10GBASE-T (10G/5G/2.5G/1G)
25 Gigabit Ethernet Port	Optional via an adapter
Wake on LAN (WOL)	Yes
Jumbo Frame	Yes
Thunderbolt Port	Optional via the QXP-T52P 2-port Thunderbolt 5 PCIe adapter Supports only Thunderbolt connections for Windows & Mac hosts and USB storage devices. Third-party Thunderbolt external storage devices are not supported.
PCIe Slot	3 Slot 1: PCIe Gen4 x16 Slot 2: PCIe Gen4 x4 Slot 3: PCIe Gen4 x4 Card dimensions for PCIe slot 1 : 260 x 111.15 x 37.52 mm / 10.25 x 4.38 x 1.48 inches. Card dimensions for PCIe slot 2 : 150 x 68.9 x 18.76 mm / 5.90 x 2.71 x 0.74 inches. Card dimensions for PCIe slot 3 : 150 x 68.9 x 18.76 mm / 5.90 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 2 (10Gbps) Port	3 x USB3.2 Gen2 Type-A 2 x USB3.2 Gen 2 Type-C
USB 4 port	2 x USB4 Type-C
HDMI™ Output	1, HDMI™ 2.1 (up to 4096 x 2160 @ 60Hz)
Form Factor	Tower
LED Indicators	System status, LAN, USB, Disk 1~16
LCD Display/ Button	Yes
Buttons	Power, Reset, USB Auto Copy
Dimensions (HxWxD)	294.3 × 369.89 × 319.8 mm
Weight (Net)	13.8 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	750W PSU, 100~240V
Power Consumption: Disk Standby Mode	97.036 W
Power Consumption: Operating Mode, Typical	130.83 W

Fan	System fan: 3 x 80mm, 12VDC CPU fan: 2 x 97mm, 12VDC
System Warning	Buzzer
Kensington Security Slot	Yes
Standard Warranty	5
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	10000