QNAP TS-473A-8G/48TB-GOLD NAS/storage server Tower Ryzen Embedded V1500B 8 GB DDR4 HDD QNAP Turbo System Black

Brand : QNAP

Product code: TS-473A-8G/48TB-GOLD

Product name : TS-473A-8G/48TB-GOLD

- Both 2.5GbE ports are backwards compatible with 1GbE/ 100MbE speeds. Up to 5 Gbps transfer speeds can be achieved by using port trunking
- Add extra functionality with PCIe cards, including 10GbE ports, SSD caching, extra USB 3.2 Gen 2 ports, wireless networking, or Fibre Channel
- Supports entry-level NVIDIA® graphics cards for video processing or GPU-passthrough to VMs
- Features two M.2 PCIe NVMe SSD slots for Qtier Technology and SSD Caching enable constant storage optimization
- Host containerized applications and virtual machines with various operating systems
- Features QTS operating system and supports switching to ZFS-based QuTS hero for greater reliability
AMD Ryzen Embedded V1500B (4x 2.2 GHz), 8GB DDR4, 4x 2.5"/3.5" SATA, 3x Type-A USB 3.2 Gen, HDMI, 1x Type-C USB 3.2 Gen

Storage	
Storage drive interface *	Serial ATA II, Serial ATA III
Supported storage drive interfaces	M.2, Serial ATA II, Serial ATA III
Storage drive sizes supported	2.5,3.5,M.2
Number of system drives installed	1
System drive capacity	5 GB
Number of M.2 (M & B) slots	2
RAID support *	✓
RAID levels	0, 1, 5, 6, 10, JBOD
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Storage drives installed *	✓
Total installed storage capacity *	48 TB
Number of storage drives installed *	4
Number of storage drives supported *	4
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD

Processor	
Processor manufacturer *	AMD
Processor family *	Ryzen Embedded
Processor model *	V1500B
Processor frequency *	2.2 GHz
Processor cores	4
Processor threads	8

Memory	
Internal memory *	8 GB
Internal memory type	DDR4
Maximum RAM supported	64 GB
Memory slots	2
Memory form factor	SO-DIMM
Flash memory	5000 MB

Network	
Ethernet LAN *	✓
Ethernet LAN data rates	100,1000,2500 Mbit/s
DHCP server	✓
Jumbo frames support	✓

Design	
Product colour	Black
Number of fans	2 fan(s)
Fan diameter	12 cm
Fan diameter 2	6 cm
Drive bay locking	✓
LED indicators	✓

Performance	
Type *	NAS
Device class *	Small & Medium Business
Backup function *	✓
Backup features	Cloud, USB drive, iSCSI LUN
Buzzer	✓
Noise level	21.4 dB
Snapshot	✓
Security algorithms	256-bit AES, FIPS 140-2, SSH, SSL/TLS
Reset button	✓
On/off switch	✓
Built-in FTP server	✓
Browser supported	Mozilla Firefox, Microsoft Edge, Google Chrome, Apple Safari
Password authentication	✓
Disk scan	✓
S.M.A.R.T. support	✓
Remotely operated	✓
USB copy function	✓

Software	
Operating system installed *	QNAP Turbo System
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	✓
Mac operating systems supported	Mac OS X 10.10 Yosemite
Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	250 W

Network	
Wake-on-LAN ready	✓
Dynamic DNS (DDNS)	✓
WLAN adapter supported	✓

Ports & interfaces	
USB port *	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	3
Ethernet LAN (RJ-45) ports *	2
PCI Express x4 (Gen 3.x) slots	2

Design	
Chassis type *	Tower
Cooling type *	Active

Power	
Number of power supply units	1
Power consumption (typical)	29.792 W
Power consumption (HDD standby)	19.576 W
AC input voltage	100 - 240 V
AC input frequency	50 - 60 Hz
Fan voltage	12 V

Weight & dimensions	
Width *	199.3 mm
Depth *	280.8 mm
Height *	188.2 mm

Packaging content	
Cables included	AC, LAN (RJ-45)
Power cables quantity	1
Number of screws	24

Operational conditions	
Operating temperature (T-T)	0 - 40 °C
Operating relative humidity (H-H)	5 - 95%
Storage temperature (T-T)	-20 - 70 °C
Storage relative humidity (H-H)	5 - 95%

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