QNAP TVS-h674 NAS Tower Ethernet LAN Black i5-12400

Brand : QNAP

Product code: TVS-H674-I5-16G/48TB IW

Product name : TVS-h674

- Enable NVMe SSD caching or Edge TPU empowered AI image recognition
- 2.5GbE ports provide higher transmission speeds with existing Cat 5e cables
- PCIe slots allow for installing 2.5/5/10/25GbE adapters, QM2 cards, or entry-level graphics cards to increase application performance
- Host multiple virtual machines and containers with optimized resource utilization
- Directly view creative works on an HDMI display. Enjoy smooth full HD media playback and real-time transcoding
- The built-in Intel® OpenVINO™ and Intel® UHD Graphics help boost AI image recognition and offload CPU workloads

48TB (Seagate IronWolf), Intel Core i5-12400 (2.5/4.4GHz), 16GB DDR4, 2.5 Gigabit LAN

Storage	
Storage drive interface *	Serial ATA
Supported storage drive interfaces	M.2, Serial ATA
Number of M.2 (M & B) slots	2
RAID support *	✓
RAID levels	0, 1, 5, 6, 10, 50, 60
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, ZFS, exFAT, ext3, ext4
Storage drives installed *	✓
Total installed storage capacity *	48 TB
Number of storage drives supported *	6
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD
Disk roaming	✓

Processor	
Processor manufacturer *	Intel
Processor generation	12th gen Intel® Core™ i5
Processor family *	Intel® Core™ i5
Processor model *	i5-12400
Processor frequency *	2.5 GHz
Processor boost frequency	4.4 GHz
Processor cores	6
Processor threads	12
Bus type	DMI4
CPU configuration (max)	1
Number of processors supported	1
On-board graphics card model	Intel UHD Graphics 730

Memory	
Internal memory type	DDR4
Maximum RAM supported	64 GB
Memory slots	2x SODIMM
Internal memory *	16 GB

Performance	
Type *	NAS
Device class *	Small & Medium Business
Backup function *	✓
Backup features	Cloud, USB drive, iSCSI LUN
Buzzer	✓
Snapshot	✓
Management protocols	SNMP
Share folder access right management	✓
Security algorithms	FIPS 140-2, HTTPS, SNMPv2, SNMPv3, SSH
Access Control List (ACL)	✓
Reset button	✓
On/off switch	✓
Built-in FTP server	✓
Browser supported	Apple Safari, Google Chrome, Microsoft Edge, Mozilla Firefox
System log	✓
Hot spare	✓
S.M.A.R.T. support	✓
Backup button	✓
USB copy function	✓

Software	
Operating system installed *	QuTS hero
Operating system version	h5.0.1

Memory	
Memory form factor	SO-DIMM
Flash memory	5120 MB

Network	
Ethernet LAN *	✓
Ethernet LAN data rates	10,100,1000,2500 Mbit/s
DHCP server	✓
Jumbo frames support	✓
iSCSI support	✓
Wake-on-LAN ready	✓

Ports & interfaces	
USB port *	✓
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
HDMI ports quantity	1
HDMI version	1.4b
Ethernet LAN (RJ-45) ports *	2

Design	
Chassis type *	Tower
Cooling type *	Active
Product colour	Black
Number of fans	3 fan(s)
Fan diameter	9.2 cm
Fan diameter 2	6 cm
Drive bay locking	✓
LED indicators	HDD, LAN, Status, USB
Built-in display	✓
Display type	LCD
Cable lock slot	✓
Cable lock slot type	Kensington

Software	
Windows operating systems supported	Windows 10, Windows 10 Education, Windows 10 Education x64, Windows 10 Enterprise, Windows 10 Enterprise x64, Windows 10 Home, Windows 10 Home x64, Windows 10 Pro, Windows 10 Pro x64, Windows 10 x64, Windows 11, Windows 11 x64, Windows 7, Windows 7 Enterprise, Windows 7 Enterprise x64, Windows 7 Home Basic, Windows 7 Home Basic x64, Windows 7 Home Premium, Windows 7 Home Premium x64, Windows 7 Professional, Windows 7 Professional x64, Windows 7 Starter, Windows 7 Starter x64, Windows 7 Ultimate, Windows 7 Ultimate x64, Windows 7 x64, Windows 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64
Linux operating systems supported	Ubuntu 14.04
Mac operating systems supported	Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, Mac OS X 10.12 Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.15 Catalina, Mac OS X 10.15.3 Catalina
Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Other operating systems supported	Solaris 10

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	250 W
Number of power supply units	1
Power consumption (typical)	79.363 W
Power consumption (sleep)	39.911 W
AC input voltage	100 - 240 V
Fan voltage	12 V

Weight & dimensions	
Width *	264.3 mm
Depth *	280.8 mm
Height *	188 mm
Weight	6.32 kg
Package weight	7.89 kg

Packaging content	
Cables included	AC, LAN (RJ-45)
Number of screws	42
Drive tray key included	✓

Processor special features	
Embedded options available	✗
Enhanced Intel SpeedStep Technology	✓
Execute Disable Bit	✓
Idle States	✓
Intel 64	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel VT-x with Extended Page Tables (EPT)	✓

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

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