QNAP TVS-672X-I3-8G/72TB-IWP NAS/storage server Tower Ethernet LAN Black i3-8100T

Brand : QNAP

Product name : TVS-672X-I3-8G/72TB-IWP

Product code: TVS-672X-I3-8G/72TB-IWP

- 5-speed 10GBASE-T RJ45 connectivity accelerates virtualization, intensive file access, large backup/restoration tasks, and media transfer
- Dual M.2 PCIe Gen 3 x2 NVMe SSD slots enable cache acceleration or SSD storage pools for improved performance
- PCIe expansion allows for 2.5/5/10/25GbE network cards, QM2 card, QXP storage expansion cards, or graphics cards
- 4K media playback and real-time transcoding; display multimedia content saved on the NAS via HDMI 2.0 (4K @60Hz) output
- Host multiple virtual machines and containers to run a wide range of applications and services
- A business-class backup center supporting backup/restore of cloud data and VMs (including Google™ Workspace, Microsoft 365®, VMware® and Hyper-V)
Intel Core i3-8100T (4x 3.1GHz), Intel UHD Graphics 630, 8GB DDR4, 5GB Flash, 6x 2.5"/3.5" SATA, 2x M.2, LAN, HDMI, USB, LCD

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 M.2 (M & B) slots	2
RAID support *	✓
RAID levels	0, 1, 5, 6, 10, 50, JBOD
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, exFAT, ext3, ext4
Storage drives installed *	✓
Total installed storage capacity *	72 TB
Number of storage drives installed *	6
Number of storage drives supported *	6
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD
Bad block scan	✓
Disk roaming	✓

Processor

Processor manufacturer *	Intel
Processor generation	8th gen Intel® Core™ i3
Processor family *	Intel® Core™ i3
Processor model *	i3-8100T
Processor frequency *	3.1 GHz
Processor cores	4
Processor threads	4
Bus type	DMI3
Configurable TDP-down frequency	2.4 GHz
CPU configuration (max)	1
Number of processors supported	1
On-board graphics card model	Intel® UHD Graphics 630

Memory

Internal memory type	DDR4
Maximum RAM supported	64 GB
Memory slots	2
Internal memory *	8 GB

Performance

Device class *	Small & Medium Business
Backup function *	✓
Backup features	Cloud, USB drive, iSCSI LUN
Buzzer	✓
Multilingual support	✓
Number of users	4096 user(s)
Noise level	23.8 dB
Third-party support	✓
Snapshot	✓
Web-based management	✓
Share folder access right management	✓
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMPv2, SNMPv3, SSH, SSL/TLS, TLS
Access Control List (ACL)	✓
Reset button	✓
On/off switch	✓
Built-in BitTorrent client	✓
Built-in UPnP AV media server	✓
Built-in FTP server	✓
Browser supported	Mozilla Firefox, Microsoft Edge, Google Chrome, Apple Safari
System log	✓
Hot spare	✓
Password authentication	✓
Disk scan	✓
S.M.A.R.T. support	✓
Remotely operated	✓
USB copy function	✓

Software

Operating system installed *	QNAP Turbo System
Operating system version	4.5.1
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	✓
Mac operating systems supported	✓
Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019

Memory

Memory form factor	SO-DIMM
Flash memory	5000 MB

Network

Ethernet LAN *	✔
Ethernet LAN data rates	100,1000,2500,5000,10000 Mbit/s
Ethernet LAN data rate supported (max)	10000 Mbit/s
DHCP client	✔
DHCP server	✔
Jumbo frames support	✔
iSCSI support	✔
Wake-on-LAN ready	✔
Link aggregation	✔
Load balancing system	✔
Dynamic DNS (DDNS)	✔
WLAN adapter supported	✔

Ports & interfaces

USB port *	✔
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	1
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	2
HDMI ports quantity	1
HDMI version	2.0
Ethernet LAN (RJ-45) ports *	3
PCI Express x4 (Gen 3.x) slots	1

Design

Chassis type *	Tower
Cooling type *	Active
Product colour	Black
Number of fans	3 fan(s)
Fan diameter	12 cm
Fan diameter 2	6 cm
Drive bay locking	✘
LED indicators	✔
Built-in display	✔
Display type	LCD
Cable lock slot	✔
Cable lock slot type	Kensington

Performance

Type *	NAS

Power

Power supply location	Built-in
Power supply unit (PSU) capacity	250 W
Number of power supply units	1
Power consumption (typical)	45.6 W
Power consumption (HDD standby)	26.52 W
AC input voltage	100 - 240 V
Fan voltage	12 V

Weight & dimensions

Width *	264.3 mm
Depth *	279.6 mm
Height *	188.2 mm

Packaging content

Cables included	AC, LAN (RJ-45)
Power cables quantity	1

Processor special features

Embedded options available	✔
Enhanced Intel SpeedStep Technology	✔
Execute Disable Bit	✔
Idle States	✔
Intel 64	✔
Intel Clear Video Technology	✔
Intel Enhanced Halt State	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Stable Image Platform Program (SIPP)	✘
Intel Stable Image Platform Program (SIPP) version	0.00
Intel Trusted Execution Technology	✘
Intel TSX-NI	✘
Intel TSX-NI version	0.00
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)	5 - 95%
Storage temperature (T-T)	-20 - 70 °C
Storage relative humidity (H-H)	5 - 95%