



# QNAP TVS-672XT NAS Tower Ethernet LAN Black i3-8100T



Brand : QNAP

Product code: TVS-672XT-I3-8G-12TB-EXOS

Product name : TVS-672XT



Intel Core i3-8100T 3.1 GHz, DDR4 SODIMM, 4 GB Flash, Intel UHD Graphics 630, 6 x 3.5" SATA, 2 x M.2, 1 x 10GBASE-T RJ45, 1 x USB 3.0, 2 x Type-C USB 3.1 Gen2, 2 x Type-A USB 3.1 Gen2, 1 x HDMI 2.0, 250W

QNAP TVS-672XT. Total installed storage capacity: 12 TB, Installed storage drive type: HDD, Supported storage drive types: HDD & SSD. Processor family: Intel® Core™ i3, Processor manufacturer: Intel, Processor model: i3-8100T. Internal memory: 8 GB, Internal memory type: DDR4, Maximum RAM supported: 32 GB. Ethernet LAN data rates: 10,100,1000,1200,2500,5000,10000 Mbit/s, Ethernet LAN data rate supported (max): 10000 Mbit/s, Supported network protocols: TCP/IP, IPv4, IPv6. On-board graphics card base frequency: 350 MHz, On-board graphics card dynamic frequency (max): 1100 MHz, On-board graphics card ID: 0x3E91

Storage		Design	
Supported storage drive interfaces	M.2, Serial ATA III	Built-in display	✓
Storage drive sizes supported	2.5,3.5,M.2	Cable lock slot	✓
Number of M.2 (M & B) slots	2	Cable lock slot type	Kensington
RAID support *	✓	Built-in speaker(s)	✓
RAID levels	0, 1, 5, 6, 10, 50, JBOD	Number of built-in speakers	1
Online RAID migration	✓	Performance	
Online RAID expansion	✓	Type *	NAS
Hot-swap drive bays	✓	Device class *	Home & Home Office
Supported file systems	FAT32, HFS+, NTFS, exFAT, ext3, ext4	Backup function *	✓
Storage drives installed *	✓	Backup features	iSCSI LUN
Total installed storage capacity *	12 TB	Buzzer	✓
Number of storage drives supported *	6	Multilingual support	✓
Installed storage drive type *	HDD	Noise level	23.8 dB
Supported storage drive types *	HDD & SSD	Snapshot	✓
Auto-rebuild	✓	Management protocols	SNMP 2/3
Bad block scan	✓	Web-based management	✓
Disk roaming	✓	Share folder access right management	✓
Processor		Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH
Processor manufacturer *	Intel	Access Control List (ACL)	✓
Processor generation	8th gen Intel® Core™ i3	Reset button	✓
Processor family *	Intel® Core™ i3	On/off switch	✓
Processor model *	i3-8100T	Built-in iTunes server	✓
Processor frequency *	3.1 GHz	Built-in FTP server	✓
Processor cores	4	Browser supported	Apple Safari 7, Google Chrome, Microsoft Internet Explorer 10, Mozilla Firefox
Processor threads	4	System log	✓
Processor cache	6 MB	Hot spare	✓
Bus type	DMI3	S.M.A.R.T. support	✓
Configurable TDP-down frequency	2.4 GHz	Share folder	CIFS/SMB
CPU configuration (max)	1	Universal Plug and Play (UPnP)	✓
ECC supported by processor	✓	Software	
PCI Express configurations	1x16, 1x8+2x4, 2x8	Operating system installed *	QNAP Turbo System
PCI Express slots version	3.0	Operating system version	4.4.0
Processor cache type	Smart Cache		
Processor code	SR3Y8		
Processor codename	Coffee Lake		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor package size	37.5 x 37.5 mm		
Processor socket	LGA 1151 (Socket H4)		
Scalability	1S		
Stepping	B0		

Processor		Software	
System bus rate	8 GT/s		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 IOT Core, Windows 10 Pro, Windows 10 Pro 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
Tjunction	82 °C		
Thermal Design Power (TDP)	35 W		
On-board graphics card model	Intel® UHD Graphics 630		
Maximum internal memory supported by processor	64 GB		
Memory bandwidth supported by processor (max)	37.5 GB/s		
Memory		Windows operating systems supported	
Internal memory type	DDR4		
Maximum RAM supported	32 GB		
Memory slots	2 x SO-DIMM		
Internal memory *	8 GB		
Flash memory	4000 MB		
Network			
Ethernet LAN *	✓		
Ethernet LAN data rates	10,100,1000,1200,2500,5000,10000 Mbit/s	Linux operating systems supported	✓
Ethernet LAN data rate supported (max)	10000 Mbit/s		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 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Wi-Fi	✗	Mac operating systems supported	
DHCP client	✓		
DHCP server	✓		
Jumbo frames support	✓		
iSCSI support	✓	Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Wake-on-LAN ready	✓		
Supported network protocols	TCP/IP, IPv4, IPv6		
Link aggregation	✓		
Load balancing system	✓		
Dynamic DNS (DDNS)	✓		
WLAN adapter supported	✓		
Ports & interfaces		Power	
USB port *	✓	Power supply unit (PSU) capacity	250 W
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	1	AC input voltage	100 - 240 V
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2	Fan voltage	12 V
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2		
HDMI ports quantity	1	Weight & dimensions	
HDMI version	2.0	Width *	264.3 mm
Ethernet LAN (RJ-45) ports *	3	Depth *	279.6 mm
Thunderbolt 3 ports quantity	2	Height *	188.2 mm
3.5 mm (1/8-inch) out	✓	Packaging content	
PCI Express x4 (Gen 3.x) slots	1	Cables included	AC, LAN (RJ-45)
Microphone in	✓	Quick installation guide	✓
Graphics		Processor special features	
On-board graphics card base frequency	350 MHz	Embedded options available	✓
On-board graphics card dynamic frequency (max)	1100 MHz	Enhanced Intel SpeedStep Technology	✓
On-board graphics card DirectX version	12.0	Execute Disable Bit	✓
On-board graphics card OpenGL version	4.5	Idle States	✓
On-board graphics card ID	0x3E91	Intel 64	✓
Maximum on-board graphics card memory	64 GB	Intel Clear Video Technology	✓
Number of displays supported (on-board graphics)	3	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)	✓

Design		Processor special features	
Chassis type *	Tower	Intel VT-x with Extended Page Tables (EPT)	✓
Cooling type *	Active	Intel® AES New Instructions (Intel® AES-NI)	✓
Product colour	Black	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Number of fans	4 fan(s)	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Fan diameter	9.2 cm	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Fan diameter 2	6 cm	Intel® Identity Protection Technology (Intel® IPT)	✓
LED indicators	HDD, LAN, Status, USB	Intel® InTru™ 3D Technology	✓
		Intel® OS Guard	✓
		Intel® Quick Sync Video Technology	✓
		Intel® Secure Key	✓
		Intel® Smart Cache	✓
		Intel® Turbo Boost Technology	✗
		Maximum number of PCI Express lanes	16
		Thermal Monitoring Technologies	✓
		Thermal solution specification	PCG 2015A
		Memory channels supported by processor	Dual
		Memory types supported by processor	DDR4-SDRAM
Operational conditions			
		Operating temperature (T-T)	0 - 40 °C
Other features			
		Digital Living Network Alliance (DLNA) certified	✓
		Processor ARK ID	129944

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