QNAP TVS-872XT-i5-16G 80TB (Seagate Ironwolf Pro) 8-Bay NAS; Intel core i5-8400T 6-core 1.7 GHz Processor Tower Ethernet LAN Black

Brand : QNAP

Product code: TVS-872XT-I5-16G/80TB-IWPRO

Product name : TVS-872XT-i5-16G 80TB (Seagate Ironwolf Pro) 8-Bay NAS; Intel core i5-8400T 6-core 1.7 GHz Processor

- High-speed Thunderbolt™ 3 with SMB protocol, allowing Mac® and Windows® users to collaborate on media editing
- 5-speed 10GBASE-T RJ45 connectivity accelerates virtualization applications and file sharing across teams and devices
- PCIe expandability allows the use of an entry-level graphics card to accelerate NAS video processing and GPU computing
- Install M.2 PCIe (Gen 3 x2, 2 GB/s) NVMe SSDs (sold separately) to set up caching or storage pools, improving file access efficiency
- 4K media playback and real-time transcoding; directly view creative works on an HDTV via HDMI 2.0 (4K @60Hz) output
- Snapshots fully record system status and data, allowing you to protect files and data from accidental deletion and malware attacks

Intel Core i5-8400T 1.7 GHz, DDR4, 8x 2.5/3.5" SATA III, 2x M.2, 1x 10G RJ-45, 2x 1G RJ-45, 2x PCIe, USB 3.0, 2x USB 3.1 C, 2x USB 3.1 A, HDMI 2.0, 2x 3.5mm, 188.2x329.3x279.6 mm

Storage

Supported storage drive interfaces	Serial ATA III
Storage drive sizes supported	2.5,3.5"
Number of M.2 (M & B) slots	2
RAID support *	✔
RAID levels	0, 1, 5, 6, 10, 50, 60, JBOD
Online RAID migration	✔
Online RAID expansion	✔
RAID rebuild	✔
Hot-swap drive bays	✔
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4
Storage drives installed *	✔
Number of storage drives supported *	8
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD
Bad block scan	✔

Processor

Processor frequency *	1.7 GHz
Processor boost frequency	3.3 GHz
Processor cache	9 MB
Bus type	DMI3
Configurable TDP-down frequency	1.2 GHz
CPU configuration (max)	1
ECC supported by processor	✘
PCI Express configurations	1x16, 1x8+2x4, 2x8
PCI Express slots version	3.0
Processor cache type	Smart Cache
Processor code	SR3X6
Processor lithography	14 nm
Processor operating modes	64-bit
Processor package size	37.5 x 37.5 mm
Scalability	1S
Stepping	U0
System bus rate	8 GT/s
Tjunction	100 °C

Performance

Type *	NAS
Device class *	Small & Medium Business
Backup function *	✔
Backup features	Cloud, iSCSI LUN
Buzzer	✔
Multilingual support	✔
Web-based management	✔
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMPv3, SSH, SSL/TLS
Access Control List (ACL)	✔
Reset button	✔
On/off switch	✔
Built-in iTunes server	✔
Built-in FTP server	✔
Browser supported	Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox
System log	✔
Hot spare	✔
S.M.A.R.T. support	✔
Share folder	CIFS/SMB
Universal Plug and Play (UPnP)	✔
USB copy function	✔

Software

Operating system version	4.4.0
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	✔
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 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016

Processor

Thermal Design Power (TDP)	35 W
Maximum internal memory supported by processor	64 GB
Memory bandwidth supported by processor (max)	41.6 GB/s
Conflict-Free processor	✓

Memory

Internal memory type	DDR4
Maximum RAM supported	32 GB
Memory slots	2
Internal memory *	16 GB
Flash memory	4000 MB

Network

Ethernet LAN *	✓
Ethernet LAN data rates	10,100,1000,10000 Mbit/s
Ethernet LAN data rate supported (max)	10000 Mbit/s
Wi-Fi	✗
DHCP client	✓
DHCP server	✓
Jumbo frames support	✓
iSCSI support	✓
Wake-on-LAN ready	✓
Supported network protocols	TCP/IP, IPv4, IPv6
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
Ethernet LAN (RJ-45) ports *	3
Thunderbolt 3 ports quantity	2
3.5 mm (1/8-inch) out	✓
PCI Express x4 (Gen 3.x) slots	1
Microphone in	✓

Graphics

On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1050 MHz
On-board graphics card ID	0x3E92
Maximum on-board graphics card memory	64 GB
Number of displays supported (on-board graphics)	3

Design

Chassis type *	Tower
Cooling type *	Active
Product colour	Black
Number of fans	4 fan(s)
Fan diameter	12 cm
Fan diameter 2	6 cm
LED indicators	HDD, LAN, USB
Built-in display	✓
Cable lock slot	✓
Cable lock slot type	Kensington

Power

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

Weight & dimensions

Width *	329.3 mm
Depth *	279.6 mm
Height *	188.2 mm
Weight	7.06 kg

Packaging content

Cables included	AC, LAN (RJ-45)
Quick installation guide	✓

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 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)	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® InTru™ 3D Technology	✓
Intel® OS Guard	✓
Intel® Quick Sync Video Technology	✓
Intel® Secure Key	✓
Intel® Turbo Boost Technology	2.0
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

Design		
Built-in speaker(s)	✓	
Number of built-in speakers	1	

Operational conditions		
Operating relative humidity (H-H)	5 - 95%	

Other features		
Digital Living Network Alliance (DLNA) certified	✓	