



## QNAP TVS-872XT-i5-16G 96TB (Seagate Ironwolf Pro) 8-Bay NAS; Intel core i5-8400T 6-core 1.7 GHz Processor Tower 16 GB DDR4 HDD Black



**Brand :** QNAP

**Product code:** TVS-872XT-I5-16G/96TB-IWPRO

**Product name :** TVS-872XT-i5-16G 96TB (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                              |                               | Performance                         |                                                                                  |
|--------------------------------------|-------------------------------|-------------------------------------|----------------------------------------------------------------------------------|
| Supported storage drive interfaces   | Serial ATA III                | Type *                              | NAS                                                                              |
| Storage drive sizes supported        | 2.5,3.5"                      | Device class *                      | Small & Medium Business                                                          |
| Number of M.2 (M & B) slots          | 2                             | Backup function *                   | ✓                                                                                |
| RAID support *                       | ✓                             | Backup features                     | Cloud, iSCSI LUN                                                                 |
| RAID levels                          | 0, 1, 5, 6, 10, 50, 60, JBOD  | Buzzer                              | ✓                                                                                |
| Online RAID migration                | ✓                             | Multilingual support                | ✓                                                                                |
| Online RAID expansion                | ✓                             | Web-based management                | ✓                                                                                |
| RAID rebuild                         | ✓                             | Security algorithms                 | 256-bit AES, FIPS 140-2, HTTPS, SNMPv3, SSH, SSL/TLS                             |
| Hot-swap drive bays                  | ✓                             | Access Control List (ACL)           | ✓                                                                                |
| Supported file systems               | FAT32, HFS+, NTFS, ext3, ext4 | Reset button                        | ✓                                                                                |
| Storage drives installed *           | ✓                             | On/off switch                       | ✓                                                                                |
| Number of storage drives supported * | 8                             | Built-in iTunes server              | ✓                                                                                |
| Installed storage drive type *       | HDD                           | Built-in FTP server                 | ✓                                                                                |
| Supported storage drive types *      | HDD & SSD                     | Browser supported                   | Apple Safari 7+, Google Chrome, Microsoft Internet Explorer 10+, Mozilla Firefox |
| Bad block scan                       | ✓                             | System log                          | ✓                                                                                |
| Processor                            |                               | Hot spare                           | ✓                                                                                |
| Processor frequency *                | 1.7 GHz                       | S.M.A.R.T. support                  | ✓                                                                                |
| Processor boost frequency            | 3.3 GHz                       | Share folder                        | CIFS/SMB                                                                         |
| Processor cache                      | 9 MB                          | Universal Plug and Play (UPnP)      | ✓                                                                                |
| Bus type                             | DMI3                          | USB copy function                   | ✓                                                                                |
| Configurable TDP-down frequency      | 1.2 GHz                       | Software                            |                                                                                  |
| CPU configuration (max)              | 1                             | Operating system version            | 4.4.0                                                                            |
| ECC supported by processor           | ✗                             | Windows operating systems supported | Windows 10, Windows 7, Windows 8                                                 |
| PCI Express configurations           | 1x16, 1x8+2x4, 2x8            | Linux operating systems supported   | ✓                                                                                |
| 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                            |                                     |                                                                                  |

| Processor                                        |                          | Software                                                                      |                                                                                                                                                                                                        |
|--------------------------------------------------|--------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stepping                                         | U0                       | 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 |
| System bus rate                                  | 8 GT/s                   |                                                                               |                                                                                                                                                                                                        |
| Tjunction                                        | 100 °C                   |                                                                               |                                                                                                                                                                                                        |
| Thermal Design Power (TDP)                       | 35 W                     |                                                                               |                                                                                                                                                                                                        |
| Maximum internal memory supported by processor   | 64 GB                    | Server operating systems supported                                            | Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016                                                                                          |
| Memory bandwidth supported by processor (max)    | 41.6 GB/s                |                                                                               |                                                                                                                                                                                                        |
| Conflict-Free processor                          | ✓                        |                                                                               |                                                                                                                                                                                                        |
| Memory                                           |                          | Power                                                                         |                                                                                                                                                                                                        |
| Internal memory *                                | 16 GB                    | Power supply location                                                         | Built-in                                                                                                                                                                                               |
| Internal memory type                             | DDR4                     | Power supply unit (PSU) capacity                                              | 250 W                                                                                                                                                                                                  |
| Maximum RAM supported                            | 32 GB                    | Number of power supply units                                                  | 1                                                                                                                                                                                                      |
| Memory slots                                     | 2                        | AC input voltage                                                              | 100 - 240 V                                                                                                                                                                                            |
| Flash memory                                     | 4000 MB                  | Fan voltage                                                                   | 12 V                                                                                                                                                                                                   |
| Network                                          |                          | Weight & dimensions                                                           |                                                                                                                                                                                                        |
| Ethernet LAN *                                   | ✓                        | Width *                                                                       | 329.3 mm                                                                                                                                                                                               |
| Ethernet LAN data rates                          | 10,100,1000,10000 Mbit/s | Depth *                                                                       | 279.6 mm                                                                                                                                                                                               |
| Ethernet LAN data rate supported (max)           | 10000 Mbit/s             | Height *                                                                      | 188.2 mm                                                                                                                                                                                               |
| Wi-Fi                                            | ✗                        | Weight                                                                        | 7.06 kg                                                                                                                                                                                                |
| DHCP client                                      | ✓                        | Packaging content                                                             |                                                                                                                                                                                                        |
| DHCP server                                      | ✓                        | Cables included                                                               | AC, LAN (RJ-45)                                                                                                                                                                                        |
| Jumbo frames support                             | ✓                        | Quick installation guide                                                      | ✓                                                                                                                                                                                                      |
| iSCSI support                                    | ✓                        | Processor special features                                                    |                                                                                                                                                                                                        |
| Wake-on-LAN ready                                | ✓                        | Embedded options available                                                    | ✗                                                                                                                                                                                                      |
| Supported network protocols                      | TCP/IP, IPv4, IPv6       | Enhanced Intel SpeedStep Technology                                           | ✓                                                                                                                                                                                                      |
| Dynamic DNS (DDNS)                               | ✓                        | Execute Disable Bit                                                           | ✓                                                                                                                                                                                                      |
| WLAN adapter supported                           | ✓                        | Idle States                                                                   | ✓                                                                                                                                                                                                      |
| Ports & interfaces                               |                          | Intel 64                                                                      | ✓                                                                                                                                                                                                      |
| USB port *                                       | ✓                        | Intel Clear Video Technology                                                  | ✓                                                                                                                                                                                                      |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity  | 1                        | Intel Enhanced Halt State                                                     | ✓                                                                                                                                                                                                      |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity  | 2                        | Intel Identity Protection Technology version                                  | 1.00                                                                                                                                                                                                   |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity  | 2                        | Intel Secure Key Technology version                                           | 1.00                                                                                                                                                                                                   |
| HDMI ports quantity                              | 1                        | Intel Stable Image Platform Program (SIPP)                                    | ✗                                                                                                                                                                                                      |
| Thunderbolt 3 ports quantity                     | 2                        | Intel Trusted Execution Technology                                            | ✗                                                                                                                                                                                                      |
| Ethernet LAN (RJ-45) ports *                     | 3                        | Intel TSX-NI                                                                  | ✗                                                                                                                                                                                                      |
| 3.5 mm (1/8-inch) out                            | ✓                        | Intel TSX-NI version                                                          | 0.00                                                                                                                                                                                                   |
| Microphone in                                    | ✓                        | Intel Virtualization Technology (VT-x)                                        | ✓                                                                                                                                                                                                      |
| PCI Express x4 (Gen 3.x) slots                   | 1                        | Intel Virtualization Technology for Directed I/O (VT-d)                       | ✓                                                                                                                                                                                                      |
| Graphics                                         |                          | Intel VT-x with Extended Page Tables (EPT)                                    | ✓                                                                                                                                                                                                      |
| On-board graphics card base frequency            | 350 MHz                  | Intel® AES New Instructions (Intel® AES-NI)                                   | ✓                                                                                                                                                                                                      |
| On-board graphics card dynamic frequency (max)   | 1050 MHz                 | Intel® Clear Video HD Technology (Intel® CVT HD)                              | ✓                                                                                                                                                                                                      |
| On-board graphics card ID                        | 0x3E92                   | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✓                                                                                                                                                                                                      |
| Maximum on-board graphics card memory            | 64 GB                    | Intel® Hyper Threading Technology (Intel® HT Technology)                      | ✗                                                                                                                                                                                                      |
| Number of displays supported (on-board graphics) | 3                        | Intel® Identity Protection Technology (Intel® IPT)                            | ✓                                                                                                                                                                                                      |
| Design                                           |                          | Intel® InTru™ 3D Technology                                                   | ✓                                                                                                                                                                                                      |
| Chassis type *                                   | Tower                    | Intel® OS Guard                                                               | ✓                                                                                                                                                                                                      |
| Cooling type *                                   | Active                   | Intel® Quick Sync Video Technology                                            | ✓                                                                                                                                                                                                      |
| Product colour                                   | Black                    | Intel® Secure Key                                                             | ✓                                                                                                                                                                                                      |
| Number of fans                                   | 4 fan(s)                 |                                                                               |                                                                                                                                                                                                        |
| Fan diameter                                     | 12 cm                    |                                                                               |                                                                                                                                                                                                        |

| Design                      |               | Processor special features                       |            |
|-----------------------------|---------------|--------------------------------------------------|------------|
| Fan diameter 2              | 6 cm          | Intel® Turbo Boost Technology                    | 2.0        |
| LED indicators              | HDD, LAN, USB | Maximum number of PCI Express lanes              | 16         |
| Built-in display            | ✓             | Thermal Monitoring Technologies                  | ✓          |
| Cable lock slot             | ✓             | Thermal solution specification                   | PCG 2015A  |
| Cable lock slot type        | Kensington    | Memory channels supported by processor           | Dual       |
| Built-in speaker(s)         | ✓             | Memory types supported by processor              | DDR4-SDRAM |
| Number of built-in speakers | 1             | Operational conditions                           |            |
|                             |               | Operating temperature (T-T)                      | 0 - 40 °C  |
|                             |               | Operating relative humidity (H-H)                | 5 - 95%    |
|                             |               | Other features                                   |            |
|                             |               | Digital Living Network Alliance (DLNA) certified | ✓          |

## Catalog Object Cloud



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