



# QNAP TVS-472XT-I3-4G/64TB-IWP NAS/storage server Tower

## Ethernet LAN Black i3-8100T



**Brand :** QNAP

**Product code:** TVS-472XT-I3-4G/64TB-IWP



**Product name :** TVS-472XT-I3-4G/64TB-IWP

- 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 for graphics cards or 40GbE/ 25GbE/ 10GbE adapters to increase application performance
  - 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 i3-8100T, 4 GB DDR4, 4x 3.5", 2x M.2, RJ-45, Thunderbolt, PCIe, USB 3.2, HDMI, 188.2×199.3×279.6 mm

| Storage                              |                               | Design                              |                                                              |
|--------------------------------------|-------------------------------|-------------------------------------|--------------------------------------------------------------|
| Storage drive interface *            | Serial ATA II, Serial ATA III | Fan diameter 2                      | 6 cm                                                         |
| Supported storage drive interfaces   | Serial ATA II, Serial ATA III | LED indicators                      | HDD, LAN, Status, USB                                        |
| Storage drive size                   | 2.5/3.5"                      | Built-in display                    | ✓                                                            |
| Storage drive sizes supported        | 2.5,3.5"                      | Display type                        | LCD                                                          |
| Number of system drives installed    | 1                             | Cable lock slot                     | ✓                                                            |
| System drive capacity                | 5 GB                          | Cable lock slot type                | Kensington                                                   |
| Number of M.2 (M & B) slots          | 2                             | Performance                         |                                                              |
| RAID support *                       | ✓                             | Type *                              | NAS                                                          |
| RAID levels                          | 0, 1, 5, 6, 10, JBOD          | Device class *                      | Small & Medium Business                                      |
| Online RAID migration                | ✓                             | Backup function *                   | ✓                                                            |
| Online RAID expansion                | ✓                             | Backup features                     | Cloud, iSCSI LUN                                             |
| RAID rebuild                         | ✓                             | Buzzer                              | ✓                                                            |
| Hot-swap drive bays                  | ✓                             | Multilingual support                | ✓                                                            |
| Supported file systems               | FAT32, HFS+, NTFS, ext3, ext4 | Noise level                         | 21.2 dB                                                      |
| Storage drives installed *           | ✓                             | Security algorithms                 | 256-bit AES, HTTPS, SSL/TLS                                  |
| Total installed storage capacity *   | 64 TB                         | Access Control List (ACL)           | ✓                                                            |
| Number of storage drives installed * | 4                             | Reset button                        | ✓                                                            |
| Number of storage drives supported * | 4                             | On/off switch                       | ✓                                                            |
| Installed storage drive type *       | HDD                           | Built-in FTP server                 | ✓                                                            |
| Supported storage drive types *      | HDD & SSD                     | Browser supported                   | Mozilla Firefox, Microsoft Edge, Google Chrome, Apple Safari |
| Processor                            |                               | System log                          | ✓                                                            |
| Processor manufacturer *             | Intel                         | Hot spare                           | ✓                                                            |
| Processor generation                 | 8th gen Intel® Core™ i3       | S.M.A.R.T. support                  | ✓                                                            |
| Processor family *                   | Intel® Core™ i3               | Share folder                        | CIFS/SMB                                                     |
| Processor model *                    | i3-8100T                      | USB copy function                   | ✓                                                            |
| Processor frequency *                | 3.1 GHz                       | Software                            |                                                              |
| Processor cores                      | 4                             | Operating system installed *        | QNAP Turbo System                                            |
| Processor threads                    | 4                             | Operating system version            | 4.4.0                                                        |
| Processor cache                      | 6 MB                          | Windows operating systems supported | Windows 10, Windows 7, Windows 8                             |
| Bus type                             | DMI3                          | Linux operating systems supported   | ✓                                                            |
| 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                                          |                                    | Software                                                |                                                                                                                                                                                                                                                                                   |                                                                                                               |
|-------------------------------------------------|------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Memory slots                                    | 2                                  | 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, Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks, Mac OS X 11.0 Big Sur |                                                                                                               |
| Internal memory *                               | 4 GB                               |                                                         | Server operating systems supported                                                                                                                                                                                                                                                | Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016 |
| Memory form factor                              | SO-DIMM                            |                                                         |                                                                                                                                                                                                                                                                                   |                                                                                                               |
| Flash memory                                    | 5000 MB                            |                                                         |                                                                                                                                                                                                                                                                                   |                                                                                                               |
| Network                                         |                                    | Power                                                   |                                                                                                                                                                                                                                                                                   |                                                                                                               |
| Ethernet LAN *                                  | ✓                                  | Power supply location                                   | Built-in                                                                                                                                                                                                                                                                          |                                                                                                               |
| Ethernet LAN data rates                         | 10,100,1000,2500,5000,10000 Mbit/s | Power supply unit (PSU) capacity                        | 250 W                                                                                                                                                                                                                                                                             |                                                                                                               |
| Ethernet LAN data rate supported (max)          | 10000 Mbit/s                       | Number of power supply units                            | 1                                                                                                                                                                                                                                                                                 |                                                                                                               |
| DHCP client                                     | ✓                                  | Power consumption (typical)                             | 37.32 W                                                                                                                                                                                                                                                                           |                                                                                                               |
| DHCP server                                     | ✓                                  | Power consumption (sleep)                               | 24.14 W                                                                                                                                                                                                                                                                           |                                                                                                               |
| Jumbo frames support                            | ✓                                  | AC input voltage                                        | 100-240 V                                                                                                                                                                                                                                                                         |                                                                                                               |
| iSCSI support                                   | ✓                                  | Fan voltage                                             | 12 V                                                                                                                                                                                                                                                                              |                                                                                                               |
| Wake-on-LAN ready                               | ✓                                  | Weight & dimensions                                     |                                                                                                                                                                                                                                                                                   |                                                                                                               |
| Link aggregation                                | ✓                                  | Width *                                                 | 199.3 mm                                                                                                                                                                                                                                                                          |                                                                                                               |
| Load balancing system                           | ✓                                  | Depth *                                                 | 279.6 mm                                                                                                                                                                                                                                                                          |                                                                                                               |
| Dynamic DNS (DDNS)                              | ✓                                  | Height *                                                | 188.2 mm                                                                                                                                                                                                                                                                          |                                                                                                               |
| WLAN adapter supported                          | ✓                                  | Weight                                                  | 5.4 kg                                                                                                                                                                                                                                                                            |                                                                                                               |
| Ports & interfaces                              |                                    | Packaging content                                       |                                                                                                                                                                                                                                                                                   |                                                                                                               |
| USB port *                                      | ✓                                  | Cables included                                         | AC, LAN (RJ-45)                                                                                                                                                                                                                                                                   |                                                                                                               |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 1                                  | Power cables quantity                                   | 1                                                                                                                                                                                                                                                                                 |                                                                                                               |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 2                                  | Processor special features                              |                                                                                                                                                                                                                                                                                   |                                                                                                               |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 2                                  | Embedded options available                              | ✓                                                                                                                                                                                                                                                                                 |                                                                                                               |
| HDMI ports quantity                             | 1                                  | Enhanced Intel SpeedStep Technology                     | ✓                                                                                                                                                                                                                                                                                 |                                                                                                               |
| HDMI version                                    | 2.0                                | Execute Disable Bit                                     | ✓                                                                                                                                                                                                                                                                                 |                                                                                                               |
| Ethernet LAN (RJ-45) ports *                    | 3                                  | Idle States                                             | ✓                                                                                                                                                                                                                                                                                 |                                                                                                               |
| Thunderbolt 3 ports quantity                    | 2                                  | Intel 64                                                | ✓                                                                                                                                                                                                                                                                                 |                                                                                                               |
| PCI Express x4 (Gen 3.x) slots                  | 1                                  | Intel Clear Video Technology                            | ✓                                                                                                                                                                                                                                                                                 |                                                                                                               |
| Design                                          |                                    | Intel Enhanced Halt State                               | ✓                                                                                                                                                                                                                                                                                 |                                                                                                               |
| Chassis type *                                  | Tower                              | Intel Identity Protection Technology version            | 1.00                                                                                                                                                                                                                                                                              |                                                                                                               |
| Cooling type *                                  | Active                             | Intel Secure Key Technology version                     | 1.00                                                                                                                                                                                                                                                                              |                                                                                                               |
| Product colour                                  | Black                              | Intel Stable Image Platform Program (SIPP)              | ✗                                                                                                                                                                                                                                                                                 |                                                                                                               |
| Number of fans                                  | 3 fan(s)                           | Intel Stable Image Platform Program (SIPP) version      | 0.00                                                                                                                                                                                                                                                                              |                                                                                                               |
| Fan diameter                                    | 12 cm                              | 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                                                                                                                                                                                                                                                                       |                                                                                                               |

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