



# QNAP TVS-672XT NAS Tower Intel® Core™ i3 i3-8100T 8 GB DDR4 48 TB HDD QNAP Turbo System Black



**Brand :** QNAP

**Product code:** TVS-672XT-I3-8G/48TB-IWPRO

**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. Type: NAS. Chassis type: Tower. Device class: Home & Home Office. Processor family: Intel® Core™ i3, Processor model: i3-8100T, Processor frequency: 3.1 GHz. Internal memory: 8 GB, Internal memory type: DDR4. Total installed storage capacity: 48 TB, Installed storage drive type: HDD. Operating system installed: QNAP Turbo System

| Storage                              |                                      | Design                               |  |
|--------------------------------------|--------------------------------------|--------------------------------------|--|
| Supported storage drive interfaces   | M.2, Serial ATA III                  | Fan diameter 2                       | 6 cm   |
| Storage drive sizes supported        | 2.5,3.5,M.2                          | LED indicators                       | HDD, LAN, Status, USB  |
| Number of M.2 (M & B) slots          | 2                                    | Built-in display                     | ✓  |
| RAID support *                       | ✓                                    | Cable lock slot                      | ✓  |
| RAID levels                          | 0, 1, 5, 6, 10, 50, JBOD             | Cable lock slot type                 | Kensington   |
| Online RAID migration                | ✓                                    | Built-in speaker(s)                  | ✓  |
| Online RAID expansion                | ✓                                    | Number of built-in speakers          | 1  |
| Hot-swap drive bays                  | ✓                                    | Performance                          |  |
| Supported file systems               | FAT32, HFS+, NTFS, exFAT, ext3, ext4 | Type *                               | NAS  |
| Storage drives installed *           | ✓                                    | Device class *                       | Home & Home Office   |
| Total installed storage capacity *   | 48 TB                                | Backup function *                    | ✓  |
| Number of storage drives supported * | 6                                    | Backup features                      | iSCSI LUN  |
| Installed storage drive type *       | HDD                                  | Buzzer                               | ✓  |
| Supported storage drive types *      | HDD & SSD                            | Multilingual support                 | ✓  |
| Auto-rebuild                         | ✓                                    | Noise level                          | 23.8 dB  |
| Bad block scan                       | ✓                                    | Snapshot                             | ✓  |
| Disk roaming                         | ✓                                    | Management protocols                 | SNMP 2/3   |
| Processor                            |                                      | Web-based management                 | ✓  |
| Processor manufacturer *             | Intel                                | Share folder access right management | ✓  |
| Processor generation                 | 8th gen Intel® Core™ i3              | Security algorithms                  | 256-bit AES, FIPS 140-2, HTTPS, SSH  |
| Processor family *                   | Intel® Core™ i3                      | Access Control List (ACL)            | ✓  |
| Processor model *                    | i3-8100T                             | Reset button                         | ✓  |
| Processor frequency *                | 3.1 GHz                              | On/off switch                        | ✓  |
| Processor cores                      | 4                                    | Built-in iTunes server               | ✓  |
| Processor threads                    | 4                                    | Built-in FTP server                  | ✓  |
| Processor cache                      | 6 MB                                 | Browser supported                    | Apple Safari 7, Google Chrome, Microsoft Internet Explorer 10, Mozilla Firefox |
| Bus type                             | DMI3                                 | System log                           | ✓  |
| Configurable TDP-down frequency      | 2.4 GHz                              | Hot spare                            | ✓  |
| CPU configuration (max)              | 1                                    | S.M.A.R.T. support                   | ✓  |
| PCI Express configurations           | 1x16, 1x8+2x4, 2x8                   | Share folder                         | CIFS/SMB   |
| PCI Express slots version            | 3.0                                  | Universal Plug and Play (UPnP)       | ✓  |
| Processor cache type                 | Smart Cache                          | Software                             |  |
| Processor code                       | SR3Y8                                | Operating system installed *         | QNAP Turbo System  |
| Processor codename                   | Coffee Lake                          |                                      |  |
| Processor lithography                | 14 nm                                |                                      |  |

| Processor                                       |   | Software  |   |
|---|---|---|---|
| Processor operating modes                       | 64-bit                                  | Operating system version                                | 4.4.0   |
| Processor package size                          | 37.5 x 37.5 mm                          |   | 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 |
| Processor socket                                | LGA 1151 (Socket H4)                    | Windows operating systems supported                     |   |
| Scalability                                     | 1S                                      |   |   |
| Stepping  | B0                                      |   |   |
| System bus rate                                 | 8 GT/s                                  |   |   |
| 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  |   | Linux operating systems supported                       | ✓   |
| Internal memory *                               | 8 GB                                    | 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  |
| Internal memory type                            | DDR4                                    |   |   |
| Maximum RAM supported                           | 32 GB                                   | Server operating systems supported                      | Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016   |
| Memory slots                                    | 2                                       |   |   |
| Memory form factor                              | SO-DIMM                                 |   |   |
| Flash memory                                    | 4000 MB                                 |   |   |
| Network   |   |   |   |
| Ethernet LAN *                                  | ✓                                       |   |   |
| Ethernet LAN data rates                         | 10,100,1000,1200,2500,5000,10000 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                      |   |   |
| 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                                       |   |   |
| Thunderbolt 3 ports quantity                    | 2                                       |   |   |
| 3.5 mm (1/8-inch) out                           | ✓                                       |   |   |
| Microphone in                                   | ✓                                       |   |   |
| PCI Express x4 (Gen 3.x) slots                  | 1                                       |   |   |
| Graphics  |   |   |   |
| On-board graphics card base frequency           | 350 MHz                                 |   |   |
| On-board graphics card dynamic frequency (max)  | 1100 MHz                                |   |   |
| On-board graphics card DirectX version          | 12.0                                    |   |   |
| On-board graphics card OpenGL version           | 4.5                                     |   |   |
|   |   | Power   |   |
|   |   | Power supply unit (PSU) capacity                        | 250 W   |
|   |   | AC input voltage  | 100 - 240 V   |
|   |   | Weight & dimensions                                     |   |
|   |   | Width *   | 264.3 mm  |
|   |   | Depth *   | 279.6 mm  |
|   |   | Height *  | 188.2 mm  |
|   |   | 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 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) | ✓   |

| Graphics   |          | Processor special features  |            |
|--|----------|---|------------|
| On-board graphics card ID                        | 0x3E91   | Intel VT-x with Extended Page Tables (EPT)                                    | ✓          |
| Maximum on-board graphics card memory            | 64 GB    | Intel® AES New Instructions (Intel® AES-NI)                                   | ✓          |
| Number of displays supported (on-board graphics) | 3        | Intel® Clear Video HD Technology (Intel® CVT HD)                              | ✓          |
| Design   |          | Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID) | ✓          |
| Chassis type *                                   | Tower    | Intel® Hyper Threading Technology (Intel® HT Technology)                      | ✗          |
| Cooling type *                                   | Active   | Intel® Identity Protection Technology (Intel® IPT)                            | ✓          |
| Product colour                                   | Black    | Intel® InTru™ 3D Technology   | ✓          |
| Number of fans                                   | 4 fan(s) | Intel® OS Guard   | ✓          |
| Fan diameter                                     | 9.2 cm   | 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 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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