



# QNAP TS-H1677XU-RP-3700X-32G/160TB-EX NAS/storage server Rack (3U) Ethernet LAN Black



**Brand :** QNAP

**Product code:** TS-H1677XU-  
RP-3700X-32G/160TB-EX

**Product name :** TS-H1677XU-  
RP-3700X-32G/160TB-EX

- Two built-in 10GbE SFP+ ports support iSER and empower bandwidth-demanding applications for virtualization, intensive file access, and large backup/restoration tasks
  - PCIe slots allow for installing 5/10/25GbE adapters, QM2 cards, or Fibre Channel cards to increase application potential and performance
  - SSD cache acceleration improves random read performance to boost IOPS-demanding applications
  - Supports storage for virtualization, and directly hosts virtual machines and containers
  - Cloud storage gateways realize hybrid cloud applications by working with the cache space reserved on NAS to ensure low-latency data access to the cloud
  - Experience a business-class backup center, supporting backup/restore of cloud data and VMs (including Google Workspace, Microsoft 365, VMware and Hyper-V)
- AMD Ryzen 7 3700X, 32 GB UDIMM DDR4, 16x 3.5" SATA, RJ-45, PCIe, USB 3.2, 3U, 130×481×573.5 mm

| Storage                                |   | Design                               |  |
|--|---|--------------------------------------|--|
| Supported storage drive interfaces     | Serial ATA II, Serial ATA III             | Chassis type *                       | Rack (3U)  |
| Storage drive sizes supported          | 2.5,3.5"                                  | Cooling type *                       | Active   |
| RAID support *                         | ✓   | Product colour                       | Black  |
| RAID levels                            | 0, 1, 5, 6, 10, 50, 60, JBOD              | Number of fans                       | 4 fan(s)   |
| Online RAID migration                  | ✓   | Fan diameter                         | 9.2 cm   |
| Online RAID expansion                  | ✓   | LED indicators                       | HDD, LAN, Status   |
| RAID rebuild                           | ✓   | <b>Performance</b>                   |  |
| Hot-swap drive bays                    | ✓   | Type *                               | NAS  |
| Supported file systems                 | FAT32, HFS+, NTFS, ZFS, exFAT, ext3, ext4 | Device class *                       | Small & Medium Business  |
| Storage drives installed *             | ✓   | Backup function *                    | ✓  |
| Total installed storage capacity *     | 160 TB                                    | Backup features                      | Cloud, iSCSI LUN   |
| Number of storage drives installed *   | 16  | Buzzer                               | ✓  |
| Number of storage drives supported *   | 16  | Multilingual support                 | ✓  |
| Installed storage drive type *         | HDD                                       | Noise level                          | 46.6 dB  |
| Supported storage drive types *        | HDD & SSD                                 | Third-party support                  | ✓  |
| Bad block scan                         | ✓   | Snapshot                             | ✓  |
| Disk roaming                           | ✓   | Web-based management                 | ✓  |
| <b>Processor</b>                       |   | Share folder access right management | ✓  |
| Processor manufacturer *               | AMD                                       | Security algorithms                  | 256-bit AES, FIPS 140-2, HTTPS, SSH                            |
| Processor family *                     | AMD Ryzen™ 7                              | Reset button                         | ✓  |
| Processor model *                      | 3700X                                     | On/off switch                        | ✓  |
| Processor frequency *                  | 3.6 GHz                                   | Built-in FTP server                  | ✓  |
| Processor boost frequency              | 4.4 GHz                                   | Browser supported                    | Microsoft Internet Explorer 10+, Google Chrome, Apple Safari 7 |
| Processor cores                        | 8   | System log                           | ✓  |
| Processor threads                      | 16  | Hot spare                            | ✓  |
| <b>Memory</b>                          |   | Password authentication              | ✓  |
| Internal memory type                   | DDR4                                      | S.M.A.R.T. support                   | ✓  |
| Maximum RAM supported                  | 128 GB                                    | Universal Plug and Play (UPnP)       | ✓  |
| Memory slots                           | 4   | <b>Software</b>                      |  |
| Internal memory *                      | 32 GB                                     | Operating system installed *         | QuTS hero  |
| Memory form factor                     | UDIMM                                     | Operating system version             | 4.5  |
| Flash memory                           | 5000 MB                                   | Windows operating systems supported  | Windows 10, Windows 7, Windows 8, Windows 8.1                  |
| <b>Network</b>                         |   | Linux operating systems supported    | ✓  |
| Ethernet LAN *                         | ✓   | Mac operating systems supported      | ✓  |
| Ethernet LAN data rates                | 1000,10000 Mbit/s                         |                                      |  |
| Ethernet LAN data rate supported (max) | 10000 Mbit/s                              |                                      |  |

| Network   |      | Software                             |   |
|---|------|--------------------------------------|---|
| DHCP server                                     | ✓    | Server operating systems supported   | Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019 |
| Jumbo frames support                            | ✓    |                                      |   |
| iSCSI support                                   | ✓    |                                      |   |
| Wake-on-LAN ready                               | ✓    |                                      |   |
| Link aggregation                                | ✓    |                                      |   |
| Load balancing system                           | ✓    |                                      |   |
| Dynamic DNS (DDNS)                              | ✓    |                                      |   |
| Ports & interfaces                              |      | Power                                |   |
| USB port *                                      | ✓    | Power supply location                | Built-in  |
| USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity | 4    | Power supply unit (PSU) capacity     | 500 W   |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity | 1    | Number of power supply units         | 2   |
| USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity | 1    | Redundant power supply (RPS) support | ✓   |
| Fiber ports quantity                            | 2    | Power consumption (typical)          | 136.45 W  |
| Fiber optic connector                           | SFP+ | AC input voltage                     | 100-240 V   |
| Ethernet LAN (RJ-45) ports *                    | 2    | Fan voltage                          | 12 V  |
| PCI Express x4 (Gen 3.x) slots                  | 2    | Weight & dimensions                  |   |
| PCI Express x8 (Gen 3.x) slots                  | 2    | Width *                              | 481 mm  |
|   |      | Depth *                              | 573.5 mm  |
|   |      | Height *                             | 130 mm  |
|   |      | Weight                               | 15.3 kg   |
|   |      | Packaging content                    |   |
|   |      | Cables included                      | AC, LAN (RJ-45)   |
|   |      | Power cables quantity                | 2   |
|   |      | Number of screws                     | 128   |
|   |      | Operational conditions               |   |
|   |      | Operating temperature (T-T)          | 0 - 40 °C   |
|   |      | Operating relative humidity (H-H)    | 5 - 95%   |
|   |      | Storage temperature (T-T)            | -20 - 70 °C   |
|   |      | Storage relative humidity (H-H)      | 5 - 95%   |

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