



QNAP TS-H1677XU-RP-3700X-32G/256TB-EX NAS/storage server Rack (3U) Ethernet LAN Black



Brand : QNAP

Product code: TS-H1677XU-
RP-3700X-32G/256TB-EX

Product name : TS-H1677XU-
RP-3700X-32G/256TB-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 | ✓ | | |
| Hot-swap drive bays | ✓ | | |
| Supported file systems | FAT32, HFS+, NTFS, ZFS, exFAT, ext3, ext4 | Performance | |
| Storage drives installed * | ✓ | Type * | NAS |
| Total installed storage capacity * | 256 TB | Device class * | Small & Medium Business |
| Number of storage drives installed * | 16 | Backup function * | ✓ |
| Number of storage drives supported * | 16 | Backup features | Cloud, iSCSI LUN |
| Installed storage drive type * | HDD | Buzzer | ✓ |
| Supported storage drive types * | HDD & SSD | Multilingual support | ✓ |
| Bad block scan | ✓ | Noise level | 46.6 dB |
| Disk roaming | ✓ | Third-party support | ✓ |
| | | Snapshot | ✓ |
| | | Web-based management | ✓ |
| | | Share folder access right management | ✓ |
| | | Security algorithms | 256-bit AES, FIPS 140-2, HTTPS, SSH |
| | | Reset button | ✓ |
| | | On/off switch | ✓ |
| | | Built-in FTP server | ✓ |
| | | Browser supported | Microsoft Internet Explorer 10+, Google Chrome, Apple Safari 7 |
| | | System log | ✓ |
| | | Hot spare | ✓ |
| | | Password authentication | ✓ |
| | | S.M.A.R.T. support | ✓ |
| | | Universal Plug and Play (UPnP) | ✓ |
| Processor | | Software | |
| Processor manufacturer * | AMD | Operating system installed * | QuTS hero |
| Processor family * | AMD Ryzen™ 7 | Operating system version | 4.5 |
| Processor model * | 3700X | Windows operating systems supported | Windows 10, Windows 7, Windows 8, Windows 8.1 |
| Processor frequency * | 3.6 GHz | Linux operating systems supported | ✓ |
| Processor boost frequency | 4.4 GHz | Mac operating systems supported | ✓ |
| Processor cores | 8 | | |
| Processor threads | 16 | | |
| Memory | | | |
| Internal memory type | DDR4 | | |
| Maximum RAM supported | 128 GB | | |
| Memory slots | 4 | | |
| Internal memory * | 32 GB | | |
| Memory form factor | UDIMM | | |
| Flash memory | 5000 MB | | |
| Network | | | |
| Ethernet LAN * | ✓ | | |
| 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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