



# QNAP TS-H1677XU-RP-3700X-32G/192TB-EX NAS/storage server Rack (3U) Ethernet LAN Black



**Brand :** QNAP

**Product code:** TS-H1677XU-RP-3700X-32G/192TB-EX

**Product name :** TS-H1677XU-RP-3700X-32G/192TB-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 *	192 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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