QNAP TS-H2477XU-RP-3700X-32G/144TB-EX NAS/storage server Rack (4U) AMD Ryzen™ 7 32 GB DDR4 HDD QuTS hero Black

Brand : QNAP

Product code: TS-H2477XU-RP-3700X-32G/144TB-EX

Product name : TS-H2477XU-RP-3700X-32G/144TB-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 DDDR4, 5 GB, 24x 3.5" SATA, 1G RJ-45, 10G SFP+, PCIe, USB, 4U, 176.15×481.04×672.02 mm

Storage	
Supported storage drive interfaces	Serial ATA II, Serial ATA III
Storage drive sizes supported	2.5,3.5"
RAID support *	✔
RAID levels	0, 1, 5, 6, 10, 50, 60
Online RAID migration	✔
Online RAID expansion	✔
Hot-swap drive bays	✔
Supported file systems	FAT32, HFS+, NTFS, ZFS, ext3, ext4
Storage drives installed *	✔
Total installed storage capacity *	144 TB
Number of storage drives installed *	24
Number of storage drives supported *	24
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD
Auto-rebuild	✔
Bad block scan	✔
Disk roaming	✔

Processor	
Processor manufacturer *	AMD
Processor generation	AMD Ryzen 3000 Series
Processor family *	AMD Ryzen™ 7
Processor model *	3700X
Processor frequency *	3.6 GHz
Processor boost frequency	4.4 GHz
Processor cores	8
Processor threads	16

Memory	
Internal memory *	32 GB
Internal memory type	DDR4
Maximum RAM supported	128 GB
Memory slots	4
Memory form factor	UDIMM
Flash memory	5000 MB

Ports & interfaces	
Fiber optic connector	SFP+
Ethernet LAN (RJ-45) ports *	2
PCI Express x4 (Gen 3.x) slots	2
PCI Express x8 (Gen 3.x) slots	2

Design	
Chassis type *	Rack (4U)
Cooling type *	Active
Product colour	Black
Number of fans	4 fan(s)
Fan diameter	9.2 cm
LED indicators	✔

Performance	
Type *	NAS
Device class *	Large Enterprise Business
Backup function *	✔
Backup features	Cloud, iSCSI LUN
Buzzer	✔
Multilingual support	✔
Snapshot	✔
Web-based management	✔
Security algorithms	256-bit AES, HTTPS, SSH, SSL/TLS
Reset button	✔
On/off switch	✔
Browser supported	Internet Explorer 10+, Chrome, Safari 7+, Firefox
System log	✔
Hot spare	✔
S.M.A.R.T. support	✔
Universal Plug and Play (UPnP)	✔

Software	
Operating system installed *	QuTS hero
Operating system version	4.5
Windows operating systems supported	Windows 10, Windows 7, Windows 8

Network	
Ethernet LAN *	✔
Ethernet LAN data rates	1000,10000 Mbit/s
Ethernet LAN data rate supported (max)	10000 Mbit/s
DHCP client	✔
DHCP server	✔
Jumbo frames support	✔
iSCSI support	✔
Wake-on-LAN ready	✔
Supported network protocols	FTP/FTPS, HTTP/HTTPS
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	4
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Fiber ports quantity	2

Software	
Linux operating systems supported	✔
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 11.0 Big Sur
Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	800 W
Number of power supply units	2
AC input voltage	100-240 V
Fan voltage	12 V

Weight & dimensions	
Width *	481 mm
Depth *	672 mm
Height *	176.2 mm
Weight	22.7 kg

Packaging content	
Cables included	AC, LAN (RJ-45)
Power cables quantity	2
Number of screws	192

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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