QNAP TS-h1277XU-RP-3700X-32G 168TB 12x14TB Seagate IronWolf Pro 12 Bay NAS Rackmount Rack (2U) Ethernet LAN Black, Grey

Brand : QNAP

Product code: TS-H1277XU-RP-3700X-32G/168TB-IWP

Product name : TS-h1277XU-RP-3700X-32G 168TB 12x14TB Seagate IronWolf Pro 12 Bay NAS Rackmount

- Provides two built-in 10GbE SFP+ ports and pre-installed with a dual-port 10GbE RJ45 adapter for bandwidth-demanding applications
- PCIe expandability allows for 10GbE/25GbE/40GbE adapters, QM2 cards, or Fibre Channel cards to increase application performance
- SSD cache acceleration improves random read/write performance to meet IPOS-demanding applications
- Supports virtualization storage for VMware®, Citrix®, Microsoft® Hyper-V® and Windows Server® 2019, and hosts virtual machines and containers
- Supports block-based and file-based cloud storage gateways with local cache for low-latency access to cloud data
- QTS App Center includes feature-rich apps for expanding NAS applications without extra costs
TS-h1277XU-RP, AMD Ryzen 7 3700X, DDR4, 5 GB, 12x SATA III, 1G RJ-45, 10G SFP+, USB 3.1, 2U, 88.3x482x562 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, JBOD
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4
Storage drives installed *	✓
Total installed storage capacity *	168 TB
Number of storage drives installed *	12
Number of storage drives supported *	12
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD

Processor	
Processor manufacturer *	AMD
Processor family *	AMD Ryzen™ 7
Processor model *	3700X
Processor frequency *	3.4 GHz
Processor boost frequency	4.4 GHz
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

Ports & interfaces	
PCI Express x4 (Gen 3.x) slots	2
PCI Express x8 (Gen 3.x) slots	2

Design	
Chassis type *	Rack (2U)
Cooling type *	Active
Product colour	Black, Grey
Number of fans	2 fan(s)
Fan diameter	7 cm
LED indicators	HDD, LAN, Status

Performance	
Type *	NAS
Device class *	Small & Medium Business
Backup function *	✓
Backup features	Cloud, iSCSI LUN
Buzzer	✓
Multilingual support	✓
Noise level	37.2 dB
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SSH, SSL/TLS
Access Control List (ACL)	✓
Reset button	✓
On/off switch	✓
Built-in FTP server	✓
Browser supported	Mozilla Firefox, Microsoft Edge, Google Chrome, Apple Safari
System log	✓
Hot spare	✓
S.M.A.R.T. support	✓
Share folder	CIFS/SMB

Software	
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	✓

Network	
Ethernet LAN data rate supported (max)	10000 Mbit/s
DHCP server	✓
Jumbo frames support	✓
iSCSI support	✓
Wake-on-LAN ready	✓
Dynamic DNS (DDNS)	✓

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
Fiber optic connector	SFP+
Ethernet LAN (RJ-45) ports *	4

Software	
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 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	300 W
Number of power supply units	2
Redundant power supply (RPS) support	✓
Power consumption (typical)	106.66 W
AC input voltage	100 - 240 V
Fan voltage	12 V

Weight & dimensions	
Width *	482 mm
Depth *	562 mm
Height *	88.3 mm
Weight	13.7 kg

Packaging content	
Cables included	AC, LAN (RJ-45)
Number of screws	84

Operational conditions	
Operating temperature (T-T)	0 - 40 °C
Operating relative humidity (H-H)	5 - 95%

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