QNAP TS-977XU-RP NAS Rack (1U) AMD Ryzen™ 3 1200 4 GB DDR4 48 TB HDD QNAP Turbo System Black

Brand : QNAP

Product code: TS-977XU-RP-1200-4G-48TB-GLD

Product name : TS-977XU-RP

- Install up to five SSDs in the 2.5-inch drive bays to enable SSD caching and Qtier for optimal system performance
- Two 10GbE SFP+ ports provide higher bandwidth to empower applications like virtualization, 4K video editing and file sharing
- PCIe expandability allows for installing QM2 expansion card, USB 3.1 Gen 2 (10Gbps) cards, or wireless network cards
- Snapshots add an extra layer of protection for disaster recovery plans. You can set a custom snapshot schedule and can use snapshots to recover data from a local or remote NAS
- Scalable storage supporting virtualization, containerized apps, centralized storage, backup, sharing, and disaster recovery
- Besides using QNAP storage expansion enclosures, you can also leverage QNAP VJBOD technology to use the unused storage space from other NAS

AMD Ryzen 3 1200 3.1 GHz, 4 GB DDR4, 4x 3.5", 5x 2.5", 2x 10G SFP+, 2x RJ-45, USB 3.1, 4x USB 3.0, PCIe 3.0 x16, PSU 2x 300 W, 43.3x482.6x54 mm

Storage	
Supported storage drive interfaces	Serial ATA III
Storage drive sizes supported	2.5,3.5"
RAID support *	✓
RAID levels	0, 1, 5, 6, 10, 50, 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 *	48 TB
Number of storage drives supported *	9
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD
Bad block scan	✓

Processor	
Processor family *	AMD Ryzen™ 3
Processor model *	1200
Processor frequency *	3.1 GHz
Processor boost frequency	3.4 GHz
Processor cores	4
Processor threads	4
Processor operating modes	64-bit

Memory	
Internal memory *	4 GB
Internal memory type	DDR4
Maximum RAM supported	64 GB
Memory slots	4

Network	
Ethernet LAN *	✓
Ethernet LAN data rates	10,100,1000,10000 Mbit/s
Ethernet LAN data rate supported (max)	10000 Mbit/s
Wi-Fi	✗
DHCP client	✓

Design	
Chassis type *	Rack (1U)
Cooling type *	Active
Product colour	Black
Number of fans	3 fan(s)
Fan diameter	4 cm

Performance	
Type *	NAS
Device class *	Small & Medium Business
Backup function *	✓
Backup features	Cloud, iSCSI LUN
Multilingual support	✓
Noise level	43.8 dB
Snapshot	✓
Web-based management	✓
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMP, SNMPv3, SSH, SSL/TLS
Access Control List (ACL)	✓
On/off switch	✓
Built-in iTunes server	✓
Built-in FTP server	✓
Browser supported	Safari 7+, Chrome, Internet Explorer 10+, Firefox
System log	✓
Hot spare	✓
S.M.A.R.T. support	✓
Share folder	CIFS/SMB

Software	
Operating system installed *	QNAP Turbo System
Operating system version	4.3.4
Windows operating systems supported	Windows 10, Windows 7, Windows 8
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 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks

Network	
DHCP server	✓
Jumbo frames support	✓
iSCSI support	✓
Wake-on-LAN ready	✓
Dynamic IP	✓
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
Fiber ports quantity	2
Fiber optic connector	SFP+
Ethernet LAN (RJ-45) ports *	2

Software	
Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	300 W
Number of power supply units	2
Power consumption (typical)	76.43 W
AC input voltage	100 - 240 V
AC input frequency	50 - 60 Hz
Fan voltage	12 V

Weight & dimensions	
Width *	482.6 mm
Depth *	505.5 mm
Height *	43.3 mm

Packaging content	
Cables included	AC, LAN (RJ-45)
Quick installation guide	✓
Number of screws	52

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

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