



# QNAP TS-977XU-RP NAS Rack (1U) AMD Ryzen™ 5 2600 8 GB DDR4 48 TB HDD QNAP Turbo System Black



**Brand :** QNAP

**Product code:** TS-977XU-RP-2600-8G-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 5 2600 3.4 GHz, 8 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		Ports & interfaces	
Supported storage drive interfaces	Serial ATA III	Ethernet LAN (RJ-45) ports *	2
Storage drive sizes supported	2.5,3.5"	<b>Design</b>	
RAID support *	✓	Chassis type *	Rack (1U)
RAID levels	0, 1, 5, 6, 10, 50, JBOD	Cooling type *	Active
Online RAID migration	✓	Product colour	Black
Online RAID expansion	✓	Number of fans	3 fan(s)
RAID rebuild	✓	Fan diameter	4 cm
Hot-swap drive bays	✓	<b>Performance</b>	
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Type *	NAS
Storage drives installed *	✓	Device class *	Small & Medium Business
Total installed storage capacity *	48 TB	Backup function *	✓
Number of storage drives supported *	9	Backup features	Cloud, iSCSI LUN
Installed storage drive type *	HDD	Multilingual support	✓
Supported storage drive types *	HDD & SSD	Noise level	43.8 dB
Bad block scan	✓	Snapshot	✓
<b>Processor</b>		Web-based management	✓
Processor family *	AMD Ryzen™ 5	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMP, SNMPv3, SSH, SSL/TLS
Processor model *	2600	Access Control List (ACL)	✓
Processor frequency *	3.4 GHz	On/off switch	✓
Processor boost frequency	3.9 GHz	Built-in iTunes server	✓
Processor cores	6	Built-in FTP server	✓
Processor threads	12	Browser supported	Safari 7+, Chrome, Internet Explorer 10+, Firefox
Processor operating modes	64-bit	System log	✓
<b>Memory</b>		Hot spare	✓
Internal memory *	8 GB	S.M.A.R.T. support	✓
Internal memory type	DDR4	Share folder	CIFS/SMB
Maximum RAM supported	64 GB	<b>Software</b>	
Memory slots	4	Operating system installed *	QNAP Turbo System
<b>Network</b>		Operating system version	4.3.4
Ethernet LAN *	✓	Windows operating systems supported	Windows 10, Windows 7, Windows 8
Ethernet LAN data rates	10,100,1000,10000 Mbit/s		
Ethernet LAN data rate supported (max)	10000 Mbit/s		
Wi-Fi	✗		
DHCP client	✓		

Network		Software	
DHCP server	✓	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
Jumbo frames support	✓		
iSCSI support	✓		
Wake-on-LAN ready	✓		
Dynamic DNS (DDNS)	✓		
WLAN adapter supported	✓	Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
<b>Ports &amp; interfaces</b>			
USB port *	✓	<b>Power</b>	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Power supply location	Built-in
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	1	Power supply unit (PSU) capacity	300 W
Fiber ports quantity	2	Number of power supply units	2
Fiber optic connector	SFP+	AC input voltage	100 - 240 V
		AC input frequency	50 - 60 Hz
		Fan voltage	12 V
		<b>Weight &amp; dimensions</b>	
		Width *	482.6 mm
		Depth *	505.5 mm
		Height *	43.3 mm
		<b>Packaging content</b>	
		Cables included	AC, LAN (RJ-45)
		Quick installation guide	✓
		Number of screws	52
		<b>Operational conditions</b>	
		Operating temperature (T-T)	0 - 40 °C
		Operating relative humidity (H-H)	5 - 95%

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