



QNAP TS-H1277AXU-RP NAS Rack (2U) AMD Ryzen™ 7 32 GB DDR5 168 TB HDD QuTS hero Black



Brand : QNAP

Product code: TS-H1277AXU-RP-R7-32G

Product name : TS-H1277AXU-RP

AMD Ryzen™ 7000 Series processors, DDR5, and M.2 PCIe Gen 5

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Powered by AMD Ryzen™ 7000 Series processors based on the cutting-edge AMD socket AM5 platform, the ZFS-based TS-h1277AXU-RP storage and backup solution unleashes superb performance and enterprise-level potential. With a revolutionary multi-core processor, DDR5 RAM, M.2 PCIe Gen 5, and redundant power supplies, the TS-h1277AXU-RP delivers excellent performance, ultra-large bandwidth, and trusted reliability for performance-demanding Tier 2 storage, virtualization, 4K video editing, and PB-level storage applications.

QNAP TS-H1277AXU-RP. Type: NAS. Chassis type: Rack (2U). Device class: Large Enterprise Business. Processor family: AMD Ryzen™ 7. Internal memory: 32 GB, Internal memory type: DDR5. Total installed storage capacity: 168 TB, Installed storage drive type: HDD. Operating system installed: QuTS hero

Storage		Performance	
Storage drive capacity *	14 TB	Multilingual support	✓
Storage drive interface *	M.2, Serial ATA II, Serial ATA III	Snapshot	✓
Supported storage drive interfaces	Serial ATA II, Serial ATA III	Management protocols	SNMP V2/V3
Storage drive sizes supported	2.5,3.5"	Web-based management	✓
RAID support *	✓	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, TLS
RAID levels	0, 1, 5, 6, 10, 50, 60, JBOD	Access Control List (ACL)	✓
Online RAID migration	✓	Reset button	✓
Online RAID expansion	✓	On/off switch	✓
RAID rebuild	✓	Built-in FTP server	✓
Hot-swap drive bays	✓	Browser supported	Apple Safari, Google Chrome, Microsoft Edge, Mozilla Firefox
Supported file systems	FAT32, HFS+, NTFS, ZFS, exFAT, ext3, ext4	System log	✓
Storage drives installed *	✓	Hot spare	✓
Total installed storage capacity *	168 TB	Disk scan	✓
Number of storage drives installed *	12	S.M.A.R.T. support	✓
Number of storage drives supported *	12	Share folder	CIFS/SMB
Installed storage drive type *	HDD	Software	
Supported storage drive types *	HDD & SSD	Operating system installed *	QuTS hero
Disk roaming	✓	Operating system version	h5.0.0
Processor		Windows operating systems supported	Windows 10, Windows 7, Windows 8
Processor manufacturer *	AMD	Linux operating systems supported	CentOS 7.0, Ubuntu 14.04
Processor family *	AMD Ryzen™ 7	Mac operating systems supported	✓
Processor boost frequency	5.3 GHz	Server operating systems supported	Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016, Windows Server 2019
Processor cores	8	Power	
Processor threads	16	Power supply location	Built-in
Bus type	DMI3	Power supply unit (PSU) capacity	500 W
CPU configuration (max)	1	Number of power supply units	2
Memory		Redundant power supply (RPS) support	✓
Internal memory *	32 GB	Power consumption (typical)	105.12 W
Internal memory type	DDR5	AC input voltage	100 - 240 V
Maximum RAM supported	192 GB		
Memory slots	4		
Memory form factor	UDIMM		
ECC	✓		

Memory		Power	
Flash memory	5000 MB	AC input frequency	50 - 60 Hz
Network		Fan voltage	12 V
Ethernet LAN *	✓	Weight & dimensions	
Ethernet LAN data rates	10,100,1000,2500,5000,10000 Mbit/s	Width *	432 mm
Ethernet LAN data rate supported (max)	10000 Mbit/s	Depth *	511.2 mm
Copper ethernet cabling technology	10GBASE-T	Height *	88.6 mm
DHCP server	✓	Packaging content	
Jumbo frames support	✓	Cables included	AC, LAN (RJ-45)
iSCSI support	✓	Power cables quantity	2
Wake-on-LAN ready	✓	Number of screws	84
Supported network protocols	IPv4, IPv6	Processor special features	
Dynamic DNS (DDNS)	✓	Embedded options available	✗
Ports & interfaces		Enhanced Intel SpeedStep Technology	✓
USB port *	✓	Execute Disable Bit	✓
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2	Idle States	✓
Ethernet LAN (RJ-45) ports *	4	Intel 64	✓
PCI Express x8 (Gen 4.x) slots	1	Intel Enhanced Halt State	✓
Design		Intel Secure Key Technology version	1.00
Chassis type *	Rack (2U)	Intel Trusted Execution Technology	✓
Cooling type *	Active	Intel TSX-NI	✓
Product colour	Black	Intel TSX-NI version	1.00
Number of fans	2 fan(s)	Intel Virtualization Technology (VT-x)	✓
Fan diameter	6 cm	Intel Virtualization Technology for Directed I/O (VT-d)	✓
LED indicators	HDD, LAN, Power, SSD, Status	Intel VT-x with Extended Page Tables (EPT)	✓
Performance		Operational conditions	
Type *	NAS	Operating temperature (T-T)	0 - 40 °C
Device class *	Large Enterprise Business	Operating relative humidity (H-H)	5 - 95%
Backup function *	✓	Storage temperature (T-T)	-20 - 70 °C
Backup features	Cloud, iSCSI LUN	Storage relative humidity (H-H)	5 - 95%
Buzzer	✓	Logistics data	
		Harmonized System (HS) code	84714100



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