QNAP

QNAP TS-H1277AXU-RP NAS Rack (2U) AMD Ryzen™ 5 16 GB DDR5 168 TB HDD QuTS hero Black

Brand : QNAP

Product code: TS-H1277AXU-RP-R5-16G

Product name : TS-H1277AXU-RP

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

QNAP TS-H1277AXU-RP NAS Rack (2U) AMD Ryzen™ 5 16 GB DDR5 168 TB HDD QuTS hero Black:

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™ 5. Internal memory: 16 GB, Internal memory type: DDR5. Total installed storage capacity: 168 TB, Installed storage drive type: HDD. Operating system installed: QuTS hero

Storage

Storage drive capacity *	14 TB
Storage drive interface *	M.2, Serial ATA II, Serial ATA III
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, ZFS, exFAT, 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
Disk roaming	✔

Processor

Processor manufacturer *	AMD
Processor family *	AMD Ryzen™ 5
Processor boost frequency	5.1 GHz
Processor cores	6
Processor threads	12
Bus type	DMI3
CPU configuration (max)	1

Memory

Internal memory *	16 GB
Internal memory type	DDR5
Maximum RAM supported	192 GB
Memory slots	4
Memory form factor	UDIMM
ECC	✔

Performance

Multilingual support	✔
Snapshot	✔
Management protocols	SNMP V2/V3
Web-based management	✔
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, TLS
Access Control List (ACL)	✔
Reset button	✔
On/off switch	✔
Built-in FTP server	✔
Browser supported	Apple Safari, Google Chrome, Microsoft Edge, Mozilla Firefox
System log	✔
Hot spare	✔
Disk scan	✔
S.M.A.R.T. support	✔
Share folder	CIFS/SMB

Software

Operating system installed *	QuTS hero
Operating system version	h5.0.0
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	CentOS 7.0, Ubuntu 14.04
Mac operating systems supported	✔
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	500 W
Number of power supply units	2
Redundant power supply (RPS) support	✔
Power consumption (typical)	105.12 W
AC input voltage	100 - 240 V

Memory

Flash memory	5000 MB

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000,2500,5000,10000 Mbit/s
Ethernet LAN data rate supported (max)	10000 Mbit/s
Copper ethernet cabling technology	10GBASE-T
DHCP server	✔
Jumbo frames support	✔
iSCSI support	✔
Wake-on-LAN ready	✔
Supported network protocols	IPv4, IPv6
Dynamic DNS (DDNS)	✔

Ports & interfaces

USB port *	✔
USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Ethernet LAN (RJ-45) ports *	4
PCI Express x8 (Gen 4.x) slots	1

Design

Chassis type *	Rack (2U)
Cooling type *	Active
Product colour	Black
Number of fans	2 fan(s)
Fan diameter	6 cm
LED indicators	HDD, LAN, Power, SSD, Status

Performance

Type *	NAS
Device class *	Large Enterprise Business
Backup function *	✔
Backup features	Cloud, iSCSI LUN
Buzzer	✔

Power

AC input frequency	50 - 60 Hz
Fan voltage	12 V

Weight & dimensions

Width *	432 mm
Depth *	511.2 mm
Height *	88.6 mm

Packaging content

Cables included	AC, LAN (RJ-45)
Power cables quantity	2
Number of screws	84

Processor special features

Embedded options available	✘
Enhanced Intel SpeedStep Technology	✔
Execute Disable Bit	✔
Idle States	✔
Intel 64	✔
Intel Enhanced Halt State	✔
Intel Secure Key Technology version	1.00
Intel Trusted Execution Technology	✔
Intel TSX-NI	✔
Intel TSX-NI version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel VT-x with Extended Page Tables (EPT)	✔

Operational conditions

Operating temperature (T-T)	0 - 40 °C
Operating relative humidity (H-H)	5 - 95%
Storage temperature (T-T)	-20 - 70 °C
Storage relative humidity (H-H)	5 - 95%

Logistics data

Harmonized System (HS) code	84714100

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