QNAP TS-1232XU NAS Rack (2U) Annapurna Labs Alpine AL-324 4 GB DDR4 72 TB HDD QNAP Turbo System Black

Brand : QNAP

Product code: TS-1232XU-4G-72TB-GLD

Product name : TS-1232XU

2U, 12-Bay, Alpine AL-324, Quad-Core, 1.7GHz, 64-bit, 4 GB DDR4, 512MB DOM, 2.5", 3.5", SATA III, RJ-45, SFP+, USB 3.0, PCIe 2.0x2, 11.3kg, 250W PSU, 72TB (WD Gold)
QNAP TS-1232XU. Type: NAS. Chassis type: Rack (2U). Device class: Large Enterprise Business. Processor family: Annapurna Labs, Processor model: Alpine AL-324, Processor frequency: 1.7 GHz. Internal memory: 4 GB, Internal memory type: DDR4. Total installed storage capacity: 72 TB, Installed storage drive type: HDD. Operating system installed: QNAP Turbo System

Storage	
Storage drive capacity *	6 TB
Storage drive interface *	Serial ATA III
Supported storage drive interfaces	Serial ATA III
Storage drive size	2.5/3.5"
Storage drive sizes supported	2.5,3.5"
RAID support *	✓
RAID levels	0, 1, 5, 6, 10, JBOD
Online RAID migration	✓
Online RAID expansion	✓
RAID rebuild	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, exFAT, ext3, ext4
Storage drives installed *	✓
Total installed storage capacity *	72 TB
Number of storage drives installed *	12
Number of storage drives supported *	12
Installed storage drive type *	HDD
Supported storage drive types *	HDD & SSD
Bad block scan	✓

Processor	
Processor family *	Annapurna Labs
Processor model *	Alpine AL-324
Processor frequency *	1.7 GHz
Processor cores	4
Processor architecture	ARM Cortex-A57

Memory	
Internal memory *	4 GB
Internal memory type	DDR4
Maximum RAM supported	16 GB
Memory slots	1
Memory form factor	UDIMM
Flash memory	512 MB

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

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

Performance	
Type *	NAS
Device class *	Large Enterprise Business
Backup function *	✓
Backup features	Cloud, iSCSI LUN
Buzzer	✓
Noise level	24.5 dB
Snapshot	✓
Security algorithms	256-bit AES, HTTPS, SSH
Reset button	✓
On/off switch	✓
Browser supported	Apple Safari 7, Google Chrome, Microsoft Internet Explorer 10, Mozilla Firefox
S.M.A.R.T. support	✓
Universal Plug and Play (UPnP)	✓

Software	
Operating system installed *	QNAP Turbo System
Operating system version	4.3.4
Windows operating systems supported	Windows 10, Windows 7, Windows 8
Linux operating systems supported	✓
Mac operating systems supported	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, Windows Server 2012 R2, Windows Server 2016

Power	
Power supply location	Built-in
Power supply unit (PSU) capacity	250 W

Network	
DHCP client	✓
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
Fiber ports quantity	2
Fiber optic connector	SFP+
Ethernet LAN (RJ-45) ports *	2

Power	
Number of power supply units	1
AC input voltage	100 - 240 V
AC input frequency	50 - 60 Hz
Fan voltage	12 V
Output current	3.5 A

Weight & dimensions	
Width *	482 mm
Depth *	534 mm
Height *	89 mm
Weight	11.3 kg

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

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

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