



QNAP TS-1232XU NAS Rack (2U) Annapurna Labs Alpine AL-324 4 GB DDR4 48 TB HDD QNAP Turbo System Black



Brand : QNAP

Product code: TS-1232XU-4G-48TB-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, ATX 250W, 48TB (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: 48 TB, Installed storage drive type: HDD. Operating system installed: QNAP Turbo System

Storage		Design	
Storage drive capacity *	4 TB	Chassis type *	Rack (2U)
Storage drive interface *	Serial ATA III	Cooling type *	Active
Supported storage drive interfaces	Serial ATA III	Product colour	Black
Storage drive size	2.5/3.5"	Number of fans	2 fan(s)
Storage drive sizes supported	2.5,3.5"	Fan diameter	7 cm
RAID support *	✓	Fan diameter 2	7 cm
RAID levels	0, 1, 5, 6, 10, JBOD	LED indicators	HDD, LAN, Status
Online RAID migration	✓	Cable lock slot	✓
Online RAID expansion	✓	Cable lock slot type	Kensington
RAID rebuild	✓	Performance	
Hot-swap drive bays	✓	Type *	NAS
Supported file systems	FAT32, HFS+, NTFS, exFAT, ext3, ext4	Device class *	Large Enterprise Business
Storage drives installed *	✓	Backup function *	✓
Total installed storage capacity *	48 TB	Backup features	Cloud, iSCSI LUN
Number of storage drives installed *	12	Buzzer	✓
Number of storage drives supported *	12	Noise level	24.5 dB
Installed storage drive type *	HDD	Snapshot	✓
Supported storage drive types *	HDD & SSD	Security algorithms	256-bit AES, HTTPS, SSH
Bad block scan	✓	Reset button	✓
Processor		On/off switch	✓
Processor family *	Annapurna Labs	Browser supported	Apple Safari 7, Google Chrome, Microsoft Internet Explorer 10, Mozilla Firefox
Processor model *	Alpine AL-324	S.M.A.R.T. support	✓
Processor frequency *	1.7 GHz	Universal Plug and Play (UPnP)	✓
Processor cores	4	Software	
Processor architecture	ARM Cortex-A57	Operating system installed *	QNAP Turbo System
Memory		Operating system version	4.3.4
Internal memory *	4 GB	Windows operating systems supported	Windows 10, Windows 7, Windows 8
Internal memory type	DDR4	Linux operating systems supported	✓
Maximum RAM supported	16 GB	Mac operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Memory slots	1	Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Memory form factor	UDIMM	Power	
Flash memory	512 MB	Power supply location	Built-in
Network		Power supply unit (PSU) capacity	250 W
Ethernet LAN *	✓		
Ethernet LAN data rates	1000 Mbit/s		
Ethernet LAN data rate supported (max)	10000 Mbit/s		
Wi-Fi	✗		

Network		Power	
DHCP client	✓	Number of power supply units	1
DHCP server	✓	AC input voltage	100 - 240 V
Jumbo frames support	✓	AC input frequency	50 - 60 Hz
iSCSI support	✓	Fan voltage	12 V
Wake-on-LAN ready	✓	Output current	3.5 A
Dynamic DNS (DDNS)	✓	Weight & dimensions	
Ports & interfaces		Width *	482 mm
USB port *	✓	Depth *	534 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Height *	89 mm
Fiber ports quantity	2	Weight	11.3 kg
Fiber optic connector	SFP+	Packaging content	
Ethernet LAN (RJ-45) ports *	2	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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