



# QNAP TS-1232XU NAS Rack (2U) Annapurna Labs Alpine AL-324 4 GB DDR4 96 TB HDD QNAP Turbo System Black



**Brand :** QNAP

**Product code:** TS-1232XU-4G-96TB-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, 96TB (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: 96 TB, Installed storage drive type: HDD. Operating system installed: QNAP Turbo System



Storage		Design	
Storage drive capacity *	8 TB	Cooling type *	Active
Storage drive interface *	Serial ATA III	Product colour	Black
Supported storage drive interfaces	Serial ATA III	Number of fans	2 fan(s)
Storage drive size	2.5/3.5"	Fan diameter	7 cm
Storage drive sizes supported	2.5,3.5"	Fan diameter 2	7 cm
RAID support *	✓	LED indicators	HDD, LAN, Status
RAID levels	0, 1, 5, 6, 10, JBOD	Cable lock slot	✓
Online RAID migration	✓	Cable lock slot type	Kensington
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 *	96 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		Performance	
Processor family *	Annapurna Labs	Type *	NAS
Processor model *	Alpine AL-324	Device class *	Large Enterprise Business
Processor frequency *	1.7 GHz	Backup function *	✓
Processor cores	4	Backup features	Cloud, iSCSI LUN
Processor architecture	ARM Cortex-A57	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)	✓
Memory		Software	
Internal memory *	4 GB	Operating system installed *	QNAP Turbo System
Internal memory type	DDR4	Operating system version	4.3.4
Maximum RAM supported	16 GB	Windows operating systems supported	Windows 10, Windows 7, Windows 8
Memory slots	1	Linux operating systems supported	✓
Memory form factor	UDIMM	Mac operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Flash memory	512 MB	Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
Network			
Ethernet LAN *	✓		

<b>Network</b>		<b>Power</b>	
Ethernet LAN data rates	10,100,1000 Mbit/s	Power supply location	Built-in
Ethernet LAN data rate supported (max)	10000 Mbit/s	Power supply unit (PSU) capacity	250 W
Wi-Fi	✗	Number of power supply units	1
DHCP client	✓	AC input voltage	100 - 240 V
DHCP server	✓	AC input frequency	50 - 60 Hz
Jumbo frames support	✓	Fan voltage	12 V
iSCSI support	✓	Output current	3.5 A
Wake-on-LAN ready	✓	<b>Weight &amp; dimensions</b>	
Dynamic DNS (DDNS)	✓	Width *	482 mm
<b>Ports &amp; interfaces</b>		Depth *	534 mm
USB port *	✓	Height *	89 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	4	Weight	11.3 kg
Fiber ports quantity	2	<b>Packaging content</b>	
Fiber optic connector	SFP+	Cables included	AC, LAN (RJ-45)
Ethernet LAN (RJ-45) ports *	2	Quick installation guide	✓
<b>Design</b>		Number of screws	84
Chassis type *	Rack (2U)	<b>Sustainability</b>	
		Sustainability certificates	RoHS
		<b>Operational conditions</b>	
		Operating temperature (T-T)	0 - 40 °C
		Operating relative humidity (H-H)	5 - 95%
		<b>Other features</b>	
		Compliance certificates	RoHS

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