



# QNAP TS-1232XU NAS Rack (2U) Annapurna Labs Alpine AL-324 4 GB DDR4 144 TB HDD QNAP Turbo System Black



**Brand :** QNAP

**Product code:** TS-1232XU-4G-144TB-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, 144TB (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: 144 TB, Installed storage drive type: HDD. Operating system installed: QNAP Turbo System



Storage		Design	
Storage drive capacity *	12 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	✓	<b>Performance</b>	
RAID rebuild	✓	Type *	NAS
Hot-swap drive bays	✓	Device class *	Large Enterprise Business
Supported file systems	FAT32, HFS+, NTFS, exFAT, ext3, ext4	Backup function *	✓
Storage drives installed *	✓	Backup features	Cloud, iSCSI LUN
Total installed storage capacity *	144 TB	Buzzer	✓
Number of storage drives installed *	12	Noise level	24.5 dB
Number of storage drives supported *	12	Snapshot	✓
Installed storage drive type *	HDD	Security algorithms	256-bit AES, HTTPS, SSH
Supported storage drive types *	HDD & SSD	Reset button	✓
Bad block scan	✓	On/off switch	✓
<b>Processor</b>		S.M.A.R.T. support	✓
Processor family *	Annapurna Labs	Universal Plug and Play (UPnP)	✓
Processor model *	Alpine AL-324	<b>Software</b>	
Processor frequency *	1.7 GHz	Operating system installed *	QNAP Turbo System
Processor cores	4	Operating system version	4.3.4
Processor architecture	ARM Cortex-A57	Windows operating systems supported	Windows 10, Windows 7, Windows 8
<b>Memory</b>		Linux operating systems supported	✓
Internal memory *	4 GB	Mac operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Internal memory type	DDR4	Server operating systems supported	Windows Server 2003, Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016
Maximum RAM supported	16 GB	<b>Power</b>	
Memory slots	1	Power supply location	Built-in
Memory form factor	UDIMM	Power supply unit (PSU) capacity	250 W
Flash memory	512 MB		
<b>Network</b>			
Ethernet LAN *	✓		

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