

QNAP TS-431X2 NAS Tower Ethernet LAN Black Alpine AL-314

Brand : QNAP

Product code: TS-431X2-8G-US

Product name : TS-431X2

- 10GbE readiness, SSD caching and full NAS encryption
 - Enjoy containerized virtualization and IoT app development with Container Station
 - Build a private cloud to centrally store, back up, share and restore files
 - Rich productivity apps including QmailAgent for central mail management, Notes Station for collaborative note-taking, Qfiling automated file organization, Qsirch full-text search engine, and much more
 - Use the TS-431X2 to expand the storage capacity of other QNAP NAS with VJBOD
 - Secure access with VPN Server & VPN Client
- Annapurna Labs AL-314 (1.7GHz), 8GB DDR3 (1600MHz), 10GbE



Storage		Performance	
Storage drive sizes supported	2.5,3,3.5"	Backup function *	✓
RAID support *	✓	Backup features	USB drive, iSCSI LUN
RAID levels	0, 1, 5+S, 5, 6, 10, JBOD	Buzzer	✓
Online RAID migration	✓	Multilingual support	✓
Online RAID expansion	✓	Number of users	4096 user(s)
Hot-swap drive bays	✓	Noise level	19.5 dB
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4	Snapshot	✓
Storage drives installed *	✗	Management protocols	SNMP
Number of storage drives supported *	4	Web-based management	✓
Supported storage drive types *	HDD & SSD	Share folder access right management	✓
Bad block scan	✓	Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMP, SSH
Processor		Access Control List (ACL)	✓
Processor family *	Annapurna Labs	Reset button	✓
Processor model *	Alpine AL-314	On/off switch	✓
Processor frequency *	1.7 GHz	Built-in iTunes server	✓
Processor cores	4	Built-in FTP server	✓
Memory		Browser supported	Microsoft Internet Explorer 10+, Mozilla Firefox 8+, Apple Safari 4+, Google Chrome
Internal memory type	DDR3	System log	✓
Memory clock speed	1600 MHz	Hot spare	✓
Maximum RAM supported	8 GB	S.M.A.R.T. support	✓
Memory slots	1x SODIMM	Share folder	512
Internal memory *	8 GB	Backup button	✓
Flash memory	512 MB	Universal Plug and Play (UPnP)	✓
Network		USB copy function	✓
Ethernet LAN *	✓	Software	
Ethernet LAN data rates	10,100,1000 Mbit/s	Operating system installed *	QNAP Turbo System
Ethernet LAN data rate supported (max)	10000 Mbit/s	Operating system version	4.3
Wi-Fi	✗		
DHCP client	✓		
DHCP server	✓		
Jumbo frames support	✓		
iSCSI support	✓		
Wake-on-LAN ready	✓		
Supported network protocols	CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, SMSC		
Link aggregation	✓		
Dynamic DNS (DDNS)	✓		

Network		Software	
WLAN adapter supported	✓		Windows 10, Windows 10 Education, Windows 10 Education x64, Windows 10 Enterprise, Windows 10 Enterprise x64, Windows 10 Home, Windows 10 Home x64, Windows 10 Pro, Windows 10 Pro x64, Windows 7 Enterprise, Windows 7 Enterprise x64, Windows 7 Home Basic, Windows 7 Home Basic x64, Windows 7 Home Premium, Windows 7 Home Premium x64, Windows 7 Professional, Windows 7 Professional x64, Windows 7 Starter, Windows 7 Starter x64, Windows 7 Ultimate, Windows 7 Ultimate x64, Windows 7 x64, Windows 8, Windows 8 Enterprise, Windows 8 Enterprise x64, Windows 8 Pro, Windows 8 Pro x64, Windows 8 x64
Ports & interfaces			
USB port *	✓		
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	3		
Fiber ports quantity	1		
Fiber optic connector	SFP+		
Ethernet LAN (RJ-45) ports *	2	Windows operating systems supported	
Design			
Chassis type *	Tower		
Cooling type *	Active		
Product colour	Black		
Number of fans	1 fan(s)		
Fan diameter	12 cm		
LED indicators	HDD, LAN, SSD, Status, USB		
Performance		Linux operating systems supported	✓
Type *	NAS	Mac operating systems supported	Mac OS X 10.7 Lion, Mac OS X 10.8 Mountain Lion, Mac OS X 10.9 Mavericks
Device class *	Small & Medium Business	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	External
		Power supply unit (PSU) capacity	90 W
		Number of power supply units	1
		Power consumption (typical)	26.19 W
		Power consumption (sleep)	11.32 W
		AC input voltage	100 - 240 V
		Weight & dimensions	
		Width *	160 mm
		Depth *	219 mm
		Height *	169 mm
		Weight	2.03 kg
		Package weight	3.46 kg
		Packaging content	
		External power adapter	✓
		Cables included	AC, LAN (RJ-45)
		Quick installation guide	✓
		Operational conditions	
		Operating temperature (T-T)	0 - 40 °C
		Operating relative humidity (H-H)	5 - 95%

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