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

Brand : QNAP

Product code: TS-431X2-2G-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), 2GB DDR3 (1600MHz), 10GbE

Storage	
Storage drive sizes supported	2.5,3.5"
RAID support *	✓
RAID levels	0, 1, 5+S, 5, 6, 10, JBOD
Online RAID migration	✓
Online RAID expansion	✓
Hot-swap drive bays	✓
Supported file systems	FAT32, HFS+, NTFS, ext3, ext4
Storage drives installed *	✗
Number of storage drives supported *	4
Supported storage drive types *	HDD & SSD
Bad block scan	✓

Processor	
Processor family *	Annapurna Labs
Processor model *	Alpine AL-314
Processor frequency *	1.7 GHz
Processor cores	4

Memory	
Internal memory type	DDR3
Memory clock speed	1600 MHz
Maximum RAM supported	8 GB
Memory slots	1x SODIMM
Internal memory *	2 GB
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	✗
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)	✓

Performance	
Backup function *	✓
Backup features	USB drive, iSCSI LUN
Buzzer	✓
Multilingual support	✓
Number of users	4096 user(s)
Noise level	19.5 dB
Snapshot	✓
Management protocols	SNMP
Web-based management	✓
Share folder access right management	✓
Security algorithms	256-bit AES, FIPS 140-2, HTTPS, SNMP, SSH
Access Control List (ACL)	✓
Reset button	✓
On/off switch	✓
Built-in iTunes server	✓
Built-in FTP server	✓
Browser supported	Microsoft Internet Explorer 10+, Mozilla Firefox 8+, Apple Safari 4+, Google Chrome
System log	✓
Hot spare	✓
S.M.A.R.T. support	✓
Share folder	512
Backup button	✓
Universal Plug and Play (UPnP)	✓
USB copy function	✓

Software	
Operating system installed *	QNAP Turbo System
Operating system version	4.3

Network	
WLAN adapter supported	✓

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

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	
Type *	NAS
Device class *	Small & Medium Business

Software	
Windows operating systems 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
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	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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