ComX Computers
Product Specification Sheet

TS-421U

QNAP TS-421U TurboNAS 4-Bay NAS Drive

Product Overview

QNAP TS-421U TurboNAS - 4-Bay, SATA, Marvell 2.0GHz Processor, 1GB DDR3 RAM, 2x Gigabit LAN, 2x USB 2.0, 1x USB 3.0, 2x eSATA, Hotswap



Specifications

Overview:

The TS-421U is a cost-effective networked storage center incorporating high reliability and scalability. Featuring cross-platform file sharing, comprehensive backup solutions, iSCSI and virtualization applications, and many other practical business applications, the TS-421U is the ideal choice for SMBs to store and secure the growing business data as a reliable private cloud.

Features:

Comprehensive virtualization support
The TS-421U supports VMware® ESXi, Citrix® XenServer, Microsoft® Hyper-V and Windows Server 2012, and also supports advanced functions including SPC-3, MPIO and MC/S, enabling flexible deployment and management for virtualization needs. The TS-421U supports VMware VAAI to increase performance by offloading ESXi server loading, and supports QNAP vSphere Client plug-in to provide enhanced operational efficiency in managing virtualization applications.

Dropbox-like file sync across devices
Is Dropbox not enough to satisfy your storage needs? With Qsync, your TS-421U is turned into a safe data center for file synchronization. Every file uploaded to the TS-421U will be made available for all linked devices including computers, laptops and mobile devices. Qsync is especially useful for frequent travelers as it ensures the most up-to-date files are accessible on all linked devices. Qsync provides multiple ways of file synchronization and group file sharing, greatly enhancing the flexibility of team projects and collaboration.

A private cloud without constraints
In contrast to the limited storage space and security concerns of public cloud services, the TS-421U is advantageous for establishing a secure and large-capacity private cloud. myQNAPcloud service allows remote access to the TS-421U from anywhere. You can easily get access to the TS-421U, instantly share multimedia contents and check the system status via the Internet whether you are on the bus or in a coffee shop.

Windows AD / LDAP support
The support of Windows AD and LDAP Directory Service saves a great amount of time for account management and authentication. Users can use their Windows AD or LDAP server account and password to log into the Turbo NAS. The TS-421U can also serve as an LDAP server.

Well-rounded backup solutions to secure data
QNAP Netbak Replicator supports real-time and scheduled data backup on Windows including Outlook email archiving. Apple Time Machine is also supported to provide Mac OS X users with an effortless solution to back up data to the TS-421U. A wide range of third-party backup software such as Acronis True Image and Symantec Backup Exec are also supported.

Disaster recovery solutions bring peace of mind
The TS-421U offers various data recovery options. RTRR (Real-Time Remote Replication) supports real time or scheduled data backup to remote Turbo NAS or FTP servers and synchronizes files to remote folders from local folders with better backup efficiency and reduced backup time. The TS-421U also supports rsync protocol to back up data to remote servers on a scheduled basis. Data can also be backed up to and restored from a range of cloud storage services, including Amazon® S3, ElephantDrive®, Symform®, Dropbox® and Google® Drive.

High security
In an open network environment, business data may be exposed in a potential hack. The TS-421U provides numerous security options, such as encrypted access, IP blocking, and other protective features. IT administrators can also control the access rights of each user to different folders, preventing unauthorized access to important files. The TS-421U is validated with military-grade FIPS 140-2 AES 256-bit encryption, preventing unauthorized users to access data even if the hard drives or entire system were stolen.

Increase data capacity with flexible storage expansion options
The TS-421U supports large storage capacities; fulfilling business needs to store large amounts of data. It also supports comprehensive RAID management, online RAID capacity expansion, and flexible RAID migration to safely store important data therefore reducing the risks of data loss. With reliable data protection, the TS-421U is perfect for cross-platform data sharing.

A surveillance solution with 24/7 security
The Surveillance Station turns the TS-421U into a professional surveillance solution with the user-friendly management interface, a wide range of compatible IP camera models, and expandable IP camera channel licenses. It also supports real-time monitoring, recording & playback with a wide range of customizable settings, and with the Vmobile app on your iOS® or Android™ devices you can manage the monitoring of cameras anytime, anywhere, for total surveillance of your monitored environment.

Access, sync and share on your mobile devices
The TS-421U is your private cloud storage that virtually enlarges the capacity of your smart mobile devices. Qfile allows you to access, upload, download, manage, and share stored files easily as if you are carrying tons of files in your pocket. The Qfile app for iOS also allows users to browse videos and photos stored on the TS-421U and play on the TV via AirPlay. Qmanager lets you monitor and manage the TS-421U remotely and efficiently without turning on a PC.

Easy system setup on start.qnap.com
The TS-421U provides system installation without using a CD. Simply visit the setup portal start.qnap.com and follow the setup guide to complete the system setup and download the utilities you want. For beginners, the TS-421U features an "Auto Setup" option to provide an easy way to set up the TS-421U with recommended settings. All settings can be flexibly changed at a later time after the installation.

Flexible & diverse, yet simple
Supporting SATA 6Gb/s and 3Gb/s hard drives and various 3.5"/2.5" hard drives and SSDs, the TS-421U provides users with high flexibility in selecting hard drives. The various inbuilt I/O ports help accommodate different peripherals, including external

storage devices and printers. Meanwhile, the TS-421U allows file sharing and storage on different operating systems, such as Windows, Mac, Linux and UNIX. The simplified system setup process and the friendly-designed graphical user interface enable anyone to easily build up a business private cloud even without IT expertise. The TS-421U has flexible and diverse features, but is simple to use.

Install apps on demand to extend NAS functionality

The QNAP App Center provides a wide range of apps developed by QNAP and third-party developers, including tools for backup/sync, business, content management, communications, download, entertainment, and much more. The App Center is a centralized location for installing, managing, and updating apps on demand. In addition, QNAP's development platform embraces the open-source spirit to enable developers to create their own apps, adding potentially limitless opportunities for the TS-421U.

Ultra high performance

The TS-421U is a 4-bay IP SAN/NAS unified storage, for small and medium businesses. Featuring a powerful Marvell 2.0 GHz Processor and 1GB DDR3 RAM, the TS-421U provides high efficiency for CPU-consuming tasks and serves more concurrent tasks at the same time.

Specifications:

Hardware Details	
CPU	Marvell 2.0 GHz
DRAM	1GB DDR3 RAM
Flash Memory	16MB
Hard Disk Drive	4 x 3.5" or 2.5" SATA HDD
	NOTE:
	1. The system is shipped without hard disk drives.
Hard Disk Tray	4 x hot-swappable and lockable tray
LAN Port	2 x Gigabit RJ-45 Ethernet port
LED Indicators	USB, Status, HDD 1, HDD 2, HDD 3, HDD 4, LAN
USB	2 x USB 3.0 port, 2 x USB 2.0 port
	Supports USB printer, disk, pen drive, USB hub, and USB UPS, etc.
eSATA	2 x eSATA port (Back)
Buttons	System: Power button, USB one-touch-backup button, reset button
Alarm Buzzer	System warning
Form Factor	Rackmount
Dimensions	44(H) x 439(W) x 483(D) mm
	1.73(H) x 16.97(W) x 19.02(D) inch
Weight	Net weight: 6.7 Kg (14.77 lb)
	Gross weight: 9.5 Kg (20.94 lb)
Power Consumption (W)	Sleep mode: 12W
	In operation: 33W
	(with 4 x 500GB HDD installed)
Temperature	0-40?C/ 32-104 degreesF

Relative Humidity	5~95% RH non-condensing, wet bulb: 27?C.
Power Supply	Input: 100-240V AC, 50/60Hz, Output: 250W
Fan	2 x quiet cooling fan (4 cm, 12V DC)
Software Details	
Operating System	QNAP Firmware v3.8
Disk Management	1. Single Disk, JBOD, RAID 0 / 1 / 5 / 5+Hot Spare / 6 / 10
	2. Online RAID Capacity Expansion & Online RAID Level Migration
	3. Bad Block Scan & Hard Drive S.M.A.R.T.
	4. Global Hot Spare Drive
	5. RAID Recovery
	6. Bitmap Support
Supported Operating System	1. Windows XP, Vista, Windows 7 (32/64-bit), Windows 8 (32/64-bit), Windows Server 2003/2008 R2/2012
	2. Apple Mac OS X
	3. Linux & UNIX
iSCSI (IP SAN)	1. iSCSI Target with Multiple LUNS per Target (Up to 256 Targets/LUNs Combined)
	2. LUN Mapping & Masking
	3. Online LUN Capacity Expansion
	4. Supports SPC-3 Persistent Reservation
	5. Supports MPIO & MC/S
	6. iSCSI LUN Backup, One-time Snapshot, and Restore
	7. iSCSI Connection and Management by QNAP Finder (Windows)
	8. Stack Chaining Master: Up to 8 Virtual Disk Drives (via iSCSI Initiator)
Supported Web Browsers	1. Microsoft Internet Explorer 10+
	2. Mozilla Firefox 8, 9, 10
	3. Apple Safari 4, 5
	4. Google Chrome

Web Administration	1. AJAX-based User Interface
	2. Smart Fan Control
	3. Dynamic DNS (DDNS)
	4. SNMP (v2 & v3)
	5. Resource Monitor
	6. Network Recycle Bin for File Deletion via CIFS/SMB and AFP
	7. Automatic Cleanup
	8. File Type Filter
	9. Comprehensive Logs (Events & Connection)
	10. Syslog Client
	11. Firmware Live Update
	12. System Settings Backup and Restore
	13. Restore to Factory Default
	14. Mobile App Qmanager for Remote Monitoring
Multilingual Support	1. Chinese (Traditional & Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, Turkish
Power Management	1. Wake on LAN
	2. Internal Hard Drive Standby Mode
	3. Scheduled Power on/off (Max 15 Settings)
	4. Automatic Power on after Power Recovery
	5. USB and Network UPS Support with SNMP Management
File System	1. Internal HDD: EXT3, EXT4
	2. External HDD: EXT3, EXT4, NTFS, FAT32, HFS+
Access Right Management	1. User Accounts Management
	2. User Groups Management
	3. Network Shares Management
	4. Batch Users Creation
	5. Import/Export Users
	6. User Quota Management
	7. Local User Access Control for CIFS, AFP, FTP, and WebDAV
	8. Application Access Control for Photo Station, Music Station, Video Station, and Multimedia Station
	9. Subfolder Permissions Support for CIFS/SMB, AFP, FTP and Web File Manager

Networking	1. TCP/IP (IPv4 & IPv6: Dual Stack)
	2. Dual Gigabit NICs with Jumbo Frame
	Failover
	Multi-IP Settings
	Port Trunking/NIC Teaming (Modes: Balance-RR, Active Backup, Balance XOR, Broadcast, IEEE 802.3ad/Link Aggregation, Balance-TLB and Balance-ALB)
	3. Service Binding based on Network Interfaces
	4. Proxy Client
	5. DHCP Client, DHCP Server
	6. Protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and SMSC
	7. TFTP Server with PXE Booting
	8. UPnP & Bonjour Discovery
	9. USB Wi-Fi Adapter Support
Domain Authentication Integration	1. Microsoft Active Directory (AD)
	2. LDAP Server
	3. LDAP Client
	4. Domain Users Login via CIFS/SMB, AFP, FTP, and Web File Manager
Backup Solution	1. Real-time Remote Replication (RTRR)
	Works as Both RTRR Server & Client with Bandwidth Control
	Real-time & Scheduled Backup
	Encryption, Compression, File Filter, and Transfer Rate Limitation
	2. Block-level Remote Replication
	Works as Both Rsync Server & Client with Bandwidth Control
	Encrypted Replication between QNAP NAS Servers
	3. USB One Touch Backup (Import/Export)
	4. Desktop Backup by QNAP NetBak Replicator for Windows
	5. Apple Time Machine Support with Backup Management
	6. Data Backup to Multiple External Storage Devices
	7. Data Backup to Cloud Storage (Amazon S3, ElephantDrive, Symform, and Google Drive)
MyCloudNAS Service	1. Private Cloud Storage and Sharing
	2. Free Host Name Registration (DDNS)
	3. Auto Router Configuration (via UPnP)
	4. MyCloudNAS Connect for Easy VPN Connection (Windows VPN Utility)

Security	1. IP Filter & Policy-based Automatic IP Blocking
	2. Network Access Protection with Auto-blocking: SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP
	3. Encrypted Access: HTTPS, FTP with SSL/TLS (Explicit), SSH/ SFTP (admin only), Encrypted Remote Replication between QNAP NAS Servers (Rsync over SSH)
	4. CIFS Host Access Control for Shared Folders
	5. Antivirus Protection
	6. Importable SSL Certificate
	7. Instant Alert via E-mail, SMS, Beep
Storage Plug & Play	Windows Software: QNAP Finder
	Create and Map Shared Folders
	Create and Connect to iSCSI Target/LUN

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: https://www.comx-computers.co.za/TS-421U-QNAP-TS-421U-TurboNAS-4-Bay-NAS-Drive-p-84568.php

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