TS-412U

QNAP TS-412U 4 Bay NAS Rackmount

Product Overview

QNAP TS-412U 4 Bay NAS Rackmount, Marvell 1.2GHz CPU, 256MB DDR2, Advanced RAID Management with Hot-swap Design, Online RAID Capacity Expansion, Online RAID Level Migration, Virtual Disk Drive (VDD), Superior Performance and Energy-saving Design, Scheduled Power on/off.



Specifications

Overview:

The QNAP TS-412U Turbo NAS is a 4-drive 1U rack-mounted network attached storage (NAS) server optimized for small and medium business who are looking an affordable yet high performance network storage solution. The TS-412U is easily installed in the server room and configured for up to 12TB (using 3TB hard drive) of online storage. The TS-412U is an ideal solution for centralized data backup, cross-platform file sharing, website hosting, and much more. Moreover, the TS-412U offers exceptionally low power consumption, maximum system reliability & expandability, and numerous business-critical applications.

Features:

Advanced RAID Management with Hot-swap Design
Turbo NAS offers RAID 0, 1, 5, 6, 10, 5 + hot spare, single, and JBOD disk configurations. It also supports hot-swap design that a failed member drive of a RAID configuration (RAID 1 or above only) can be replaced by hot swapping without turning off the server.

Online RAID Capacity Expansion
The storage capacity of a RAID disk volume of the NAS can be expanded by replacing the hard drives with larger ones. All the data will be kept and seamlessly moved to the newly installed hard drives. There is no need to turn off the server during the process.

Online RAID Level Migration
You can upgrade the disk volume of the NAS to higher RAID level with the data retained. There is no need to turn off the server during the process.

Virtual Disk Drive (VDD)
The NAS supports flexible storage expansion by stacking other iSCSI targets on the network via its built-in iSCSI initiator. The

connected iSCSI targets are turned into "virtual disk drives" of the NAS to provide more storage capacity.

Built-in iSCSI/IP-SAN Target Service
The TS-412U is both a NAS and an iSCSI target server, ideal for cost-efficient IP-SAN setup. You can make use of the built-in iSCSI target service to add up to 256 iSCSI devices. Different iSCSI Target LUNs (Logical Unit Number) can be defined as storage expansion or backup destination of the existing application servers, such as database servers and mail servers. Furthermore, the "Virtual Space Allocation" (Thin Provisioning) feature is provided which allows you to flexibly allocate the capacity of iSCSI LUN (Logical Unit Number). When the physical storage capacity of the volume is going to be full, you can easily expand the storage capacity by online RAID capacity expansion or adjust/ remove the current unused volume space.

Complete Data Backup Solution
The NAS offers complete backup solution for data protection, including cloud-based storage backup (Amazon S3, ElephantDrive), Apple Time Machine support, encrypted remote replication, third party software backup, one-touch-copy backup and QNAP exclusive Windows-based utility NetBak Replicator.

Benefits of Dual LAN Deployment
The Turbo NAS supports multiple bonding modes: Balance-rr (Round-Robin), Active Backup, Balance XOR, Broadcast, IEEE 802.3ad, Balance-tlb (Adaptive Transmit Load Balancing), and Balance-alb (Adaptive Load Balancing).

Wireless LAN
QNAP NAS supports USB wireless dongles for flexible and secure deployment in wireless network environment. You can securely connect the NAS to a wireless network with a compatible b/g/n USB Wi-Fi adapter.

Superior Performance and Energy-saving Design
The NAS delivers superior performance and high reliability for critical business applications. It is optimized to achieve low noise and low power consumption for environment protection.

Hard Disk Standby
You can configure the hard disks to enter standby mode if there is no disk access within the specified period.

Scheduled Power on/off
You can create schedules to automatically turn on, turn off, or restart the NAS. Up to 15 schedules can bet set.

Network UPS
This feature allows multiple Turbo NAS servers on the same physical network to be protected by a single UPS via receiving UPS notification about abnormal power supply.

Automatic Power on after Power Recovery
You can configure the NAS to turn on automatically after the system resumes from a power loss.

Abundant Business Features
The Turbo NAS provides diversified server applications in the business environment.

Smart Fan
The fan rotation speed is automatically adjusted according to the server's temperature. You can also define the system temperatures to trigger high speed or low speed rotation of the fan. By manually setting the fan rotation speed, the fan will rotate at the defined speed continuously.

Instant SMS/Email Alert
You can configure the SMTP server and SMSC server settings on the NAS in order to receive instant system warning or error messages by email or SMS.

SNMP (Simple Network Management Protocol)
You can collect the information, warning, or error of the NAS and send to maximum 3 SNMP servers for centralized management and real-time monitoring.

SSL Secure Certificate
You can upload a secure certificate and an RSA private key in X.509PEM format issued by a trusted provider to allow the users to access the NAS by secure SSL login.

Import/ Export User
The user accounts can be imported and exported in batch (BIN file) between different QNAP NAS servers.

Syslog Settings
All the system event logs and connection logs can be saved to a remote syslog server.

Network Recycle Bin
The files deleted from the network shares of the NAS will be moved to a particular recycle bin folder. You can restore your data anytime in case of unintended file deletion.

Comprehensive Event Log System
The logs of connections to the NAS via samba, FTP, AFP, HTTP, HTTPS, Telnet, and SSH, and networking services accessed by online users are all recorded.

S.M.A.R.T. & Advanced HDD Health Scanning (HHS)
S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology) helps you monitor the hard disk drives status. Moreover, the Turbo NAS supports HHS (HDD Health Scan) for disk checking and bad blocks scanning.

Detailed System Information
You can view the system status, such as CPU usage, total memory, free memory, packets received, packets sent, error packets, system up time, CPU temperature, system temperature, hard disk drive temperature, and system fan speed.

Windows Active Directory (AD)
You can import the user accounts* from a Windows AD domain to the NAS to let the domain users access the domain and the NAS with the same login settings. The NAS also supports setup of large amount of users and user groups. (*200,000 domain users and user groups can be imported according to QNAP's lab test).

Shared Folder Aggregation
You can easily access the share folders of other servers on Microsoft Networking through the "portal folder" on the Turbo NAS. This saves your time and effort to login different servers one by one.

Host Access Control
The host-based permission control of QNAP NAS prevents unauthorized hosts (computers, servers) to access to the NAS folders via Microsoft Networking. You can specify the allowed access by host name, IP address or network.

Advanced Folder Permission
Advanced folder permissions allow you to configure access control to folders and subfolders of QNAP NAS. With this feature enabled, you can manage folder permissions from Microsoft Windows or the web-based management interface of the NAS without complicated procedure.

Web File Manager
Turbo NAS provides a web-based management interface Web File Manager for you to access and manage the server data anytime, anywhere by a web browser. Web File Manager supports intelligent data search, batch files upload and download, file extraction, and so on. With the support for encrypted data transfer and access control management on the NAS, you can

access and share the data by Web File Manager securely.

ISO CD/DVD Archiving and Sharing
Turbo NAS supports mounting ISO images of CD and DVD discs as network shares for data archiving, storage, and sharing. This feature saves the space for storing the physical discs, reduces the risk of data loss caused by disc wearing and tearing, and enhances the performance of data sharing on a business network.

MyCloudNAS Service
MyCloudNAS is a service which allows you to connect to your NAS remotely from anywhere. The easy-to-use wizard helps you assign a unique name to your NAS without going through the complicated process of registering DDNS service. Various NAS services can be easily published and accessed on the Internet.

Specifications:

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Product Code	TS-412U
Specifications	
CPU	Marvell 6281 1.2GHz
DRAM	256MB DDRII RAM
Flash Memory	16MB
Hard Disk Drive	4 x 3.5" or 2.5" SATA I/II hard disk drive (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	4 x USB 2.0 port (Front: 1; Back: 3)
	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: 15W
	In operation: 29W
	(with 4 x 500GB HDD installed)

Temperature	0-40?C/ 32-104 degreesF
Relative Humidity	0-95% R.H.
Power Supply	Input: 100-240V AC, 50/60Hz, Output: 250W
Fan	3 x quiet cooling fan (4 cm, 12V DC)

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-412U-QNAP-TS-412U-4-Bay-NAS-Rackmount-p-67047.php

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