

Turbo Server TS-411U

Best NAS Server with 4 Hot-Swappable SATA Disks for SMB & Enterprise

Dedicated to SMB & enterprise, **QNAP TS-411U** is efficient and highly reliable for multi-users' high speed and large volume data access. It is powerful, but easy and friendly to use. Installation or management of the system can be simply configured via the multi-language web interface in IE browser even for non IT professionals! With 4 hot swappable SATA disks, instant/scheduled remote replication, USB CD/DVD burning backup, SCSI tape backup, and other value-added features, TS-411U satisfies the need of SMB & enterprise users for easy-to-use and highly reliable storage device, and achieves various data protection



Feature Highlights

- Dedicated to SMB & enterprise, provides the most efficient storage solution embedded with practical and advanced storage management functions
- Simple installation, 5-min configuration and user-friendly web management interface. All system configuration can be done via IE browser
- New generation high speed SATA HDD, supports hotswap, maximum capacity up to 2.0 TB
- Dual Gigabit ports for load balance, fail over and multi-IP setting
- Double USB 2.0 ports for UPS
- Handy LCD panel for instant display of IP address and important system info; IP settings can be configured directly without access to PC
- Support Raid 0/1/5, and JBOD disk configuration.
- Built-in anti-virus mechanism. Simply enter activation code to enable anti-virus function without extra installation. Supports instant online virus scan to protect data. (Optional)
- Supports hot redundant power supply to increase system reliability
- Provides various practical backup mechanisms
 - Remote Replication: Built-in professional block level replication function for users to back up data in TS-411U instantly or by scheduled backup to a remote NAS
 - CD/DVD Backup: USB 2.0 interface for external CD/DVD data burning/restoring
 - NetBak Replicator: Powerful backup software for Windows users, instant/scheduled backup of PC data to TS-411U can be performed without IT professional assistance.



Why SMB & Enterprise Need NAS for Storage



The number of offices are increasing. They need more storage capacity but ordinary file server with PC architecture cannot offer.



Valuable information is distributed all over the company, so they need to centralize and share them.



Information is a very important asset to a company. They need to protect it from being lost.



Most storage products are so expensive and complicated. I need an affordable and easily managed storage solution.



The OS of a PC file server is enormous in size and highly complicated while the stability is low without guaranteed efficiency as the applications are interactively affected. Therefore, a more stable and reliable storage server is needed.

TS-411U – Your best storage partner

Data protection is the major mission of TS-411U. Backed up by solid technology, storage and replication of users' data can be reassured and protected against damage or loss.



Disk Configuration Protection

Supports RAID 0/1/5, and JBOD disk configuration. Alert mechanism can be set for disk damage via email alert or by suspending file access services to ensure data security.



Dual Gigabit Bandwidth Network

Support two built-in Gigabit network ports which support load balance, fail over, and standalone settings to ensure uninterrupted network transfer.



Remote Replication Data Protection

Block level high-speed transfer technology, can set scheduled and incremental replication. Enable automatic data backup to another NAS on the network in a flash, which enhances reliability of data backup.



Embedded Anti-virus Software

Secure data protection by embedded Trend Micro anti-virus agent, which can be activated by simply entering registration code. Data security is guaranteed.



Hot Swap/ Redundant Power Supply

One standard hot swap power supply, plus an optional second power supply to enhance system reliability. Supports SNMP and USB UPS.



Hot-swappable SATA HDD

Support up to 4 hot swappable disks and new generation SATA interface for more convenient

TS-411U Value-added Benefits

◆ Simple and easy to use management functions

- Intellectual web management interface
Administrator can connect to the network anytime anywhere to configure disk volume configuration, update system firmware, back up data or perform other functions quickly via web management interface by IE browser.
- Practical user management functions
Administrator can configure access right and storage quota for each user to manage storage space efficiently. User settings can be backed up which enables quick restoration of user accounts, password and other settings in a short time in case of system damage or another new storage server is installed.
- Support Microsoft AD (Active Directory)
TS-411U can integrate with the original AD server in enterprise network to minimize the effort and time for regenerating user accounts and makes management more convenient.
- Outstandingly convenient LCD display panel
Users can view the IP address and system status directly from the LCD panel without connecting to the PC, and can use the buttons on the panel to perform simple configuration.

◆ Effective data protection

■ Automatic data restoration design

When RAID 1 or RAID 5 disk volume configuration is enabled in TS-411U, users can replace a failed disk with a new one without turning off the system if disk malfunction occurs. QNAP NASWare can restore data to the new disk automatically and current system process will not be interrupted.

■ Embedded online anti-virus mechanism

Built-in Trend Micro anti-virus mechanism, can be enabled instantly by entering activation code. Instant online virus scan to protect data against virus and enables secure data sharing.

◆ Diversified backup mechanism

■ Remote replication

TS-411U is embedded with professional standard remote replication function to support instant or scheduled back up of data to another storage server (NAS) on the network. With block level transfer and incremental backup settings, the efficiency of data transfer and backup can be largely enhanced.

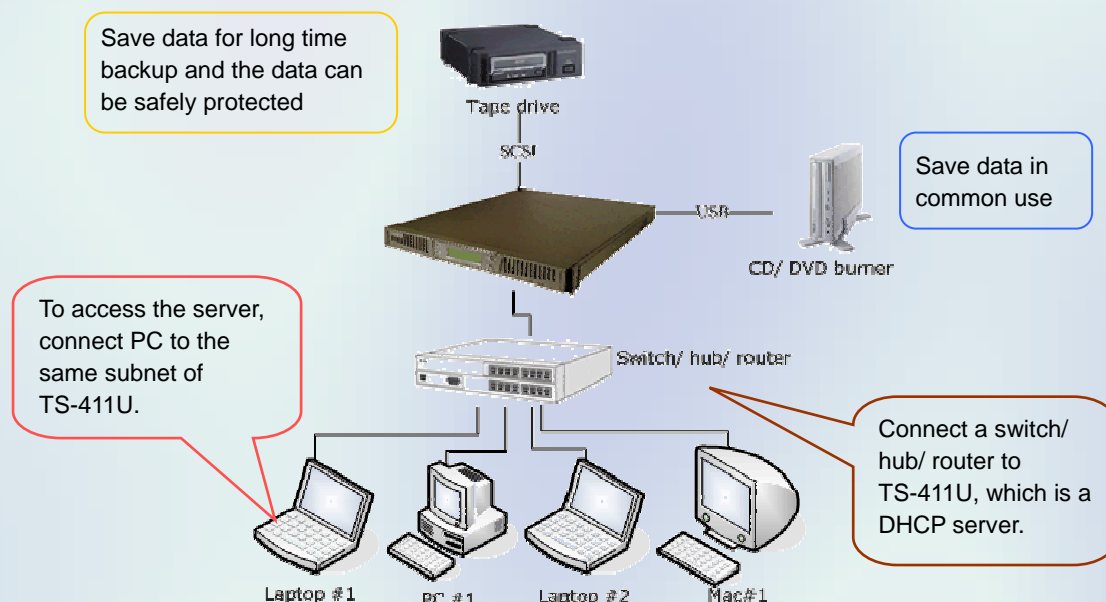
■ Client-side data backup

PC users can use the attached backup software NetBak Replicator to backup important data on PC to TS-411U instantly or by schedule without the help of IT professionals.

■ CD/DVD Backup/ Restore

TS-411U supports external USB 2.0 CD/ DVD to provide data backup and restore functions, which brings more convenience to administrator for data backup.

Application of TS-411U



Hardware Specifications

System Specification	CPU	Intel Pentium M 1.6GHz
	DRAM	512MB
	Flash	32MB
	HDD	4 x 3.5" SATA HDD, Support Hot swap
Network Specification	LAN Ports	2 x Gigabit RJ-45 Ethernet port
IO Interface	USB	2 x USB2.0
	SCSI	Ultra 160 SCSI
System Information	LED Indicator	Power, Error, Network Status, Hard Disk
	LCD Display	LCD Panel, Two Control Button for System Management
	Alarm Buzzer	System malfunction warning
Physical Specification	Form Factor	1U Rack-mount
	Dimension	570mm(D) x 430mm(W) x 44mm(H)
	Weight	Net Weight: 12Kg Gross Weight: 16Kg
Operation Environment	Temperature	0~40
	Humidity	0~85% R.H
Power Management	Power Supply Specification	ATX Power Supply 150W Redundant ATX Power Supply

Software Specifications

Operation System	Embedded Linux		Network Share Management (max 1023 Shares)
	TCP/IP		Users quota setting
Network Transport Protocols	NetBEUI		Support 10,000 user accounts
	Apple Talk		Web-based administration(auto detect language)
	Microsoft Networks (CIFS/SMB)		SNMP Support
Network File Protocols	Apple (AFP)		Quick Install Wizard
	Internet (HTTP)		System Temperature Monitor
	File Transfer Protocol(FTP)		E-mail alert
	Linux (NFS)		LCD Panel Configuration
Network Security	Microsoft Network Domain Controller (PDC)		LED display
	Microsoft AD Authentication		Alarm buzzer
Network Client Type	Microsoft Windows 95/98/ME/NT/2000/XP/2003		System Software upgrade
	Macintosh system 7.5 or above		Reset Button
	Linux Fedora RC3, Redhat 7.3/8.0/9.0		Support Network Time Protocol
	Fixed IP Address		Multi users account setting
Network Management	Dynamic IP Address		Embedded Trend Micro Virus Scanning (optional)
	DHCP Service		E-mail alert (Support SMTP Authentication)
	Load Balancing		HDD Standby mode setting
	Fail-over		Disk usage alert
	Multi-IP Setting		Auto power on
	RAID 0 (disk stripping)		System firmware upgrade
Disk Configuration	RAID 1 (disk mirroring)		Change homepage Logo
	RAID 5 (disk stripping with parity)		Backup, Restore, Reset system setting
	JBOD(Liner Disk Volume)		English, Traditional Chinese, Simplified Chinese, Japanese, French, German
	Single disk		SNMP
Disk Management	Hard Disk Failure Detection (S.M.A.R.T)		USB
	Disk Detect/Auto Recovery		Support Client Backup Software NetBak Replicator
	Disk Used Status Management		Built-in Tape Backup Software Function
User management	Users account management (max 512 users)		Schedule to remote replication backup
	User Groups management (max 1024 groups)		Support Most Popular Network Backup Application
	Users can change password		Block Level Remote Replication
	Journaling File System		CD/DVD Burning/Restore (Support CD-R/RW, DVD+R/-R/+RW/-RW/-R Double Layer)
File System Management	Web File Manager for Remote Access		Display all current login users
	Over 2 GB Files Support		Display system log/alert/error
	Unicode Support		Display all DHCP assignment information
	Network Shared Folder Level ACL Support		



NAS-4300
Best Choice
Computex 2003

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EDITOR'S CHOICE

NAS-2000
Editor's Choice
Digital Home (UK)



NAS-5100
2004 Golden Torch
Award



TS-101
IT Magazine 2006, Network
Storage Device of the Year,
Taiwan



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