QNAP Professional 4-Bay, 1U Rackmount Turbo NAS

Redundant power supply for enhanced reliability Supports 2.5" and 3.5" Hard Drives for more flexibility



TS-439U Series











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About QNAP

- QNAP, with more than 8 years experience in embedded systems, is devoted to be world's leading company in IA (Internet Appliance) field.
- Successful experience in developing innovative IA products.
 - Most Advanced Digital Surveillance Systems (Digital Video Recorder, Network Video Recorder)
 - Best synergy in storage and surveillance
 - Most Extensive Networking Storage (RAID, NAS)



Awards

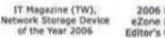














eZone (HK).



2006 Feb. IT Magazine (TW).



2006 Feb. / May. home Advance (TW















Techworld (UK). Recommended



Computex Taipei 2006

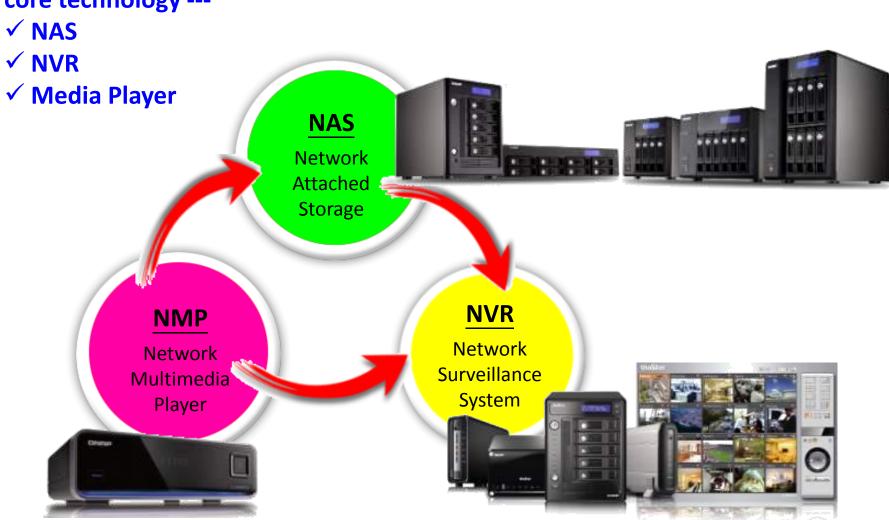






QNAP Core Technology

QNAP is one of the few NAS suppliers who owns three core technology ---





Core Competence

The Top-notch R&D Team in the Industry!!!

Software Team (over 32 engineers)

- Pioneer in embedded Linux technology
- High performance and high reliability server & video technology
- Extensive experience in RISC I/O processor
- Experts in TCP/IP offload engine technology
- Most complete self-developed management software
- Advanced network distributed management technology

Hardware Team (over 12 engineers)

- Top notch E/E and ME design engineer team
- Partner with major chipset vendors: Intel/VIA/Freescale/Marvell/Silicon Image
- ID/ME/Thermal in house design & simulation capability



Hardware Test:

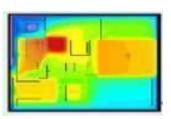
- Rigid stress test, reliability/stability test
- Performance test, function test
- Compatibility test
- EMI test

Software Test:

- Full function test
- Compatibility test
- Real environment 32 clients NetBench test

Most Stringent Quality Controlled Manufacturing

- SMT/DIP Facility/Assembly Facility
- Well setup IQC/IPQC/OQC system









EMI Lab







QNAP Product Line Overview

1. Turbo NAS Series (Network Attached Storage)



2. QNAP NVR Series (Network Video Recorder)



3. QNAP NMP Series (Network Multimedia Player)





Why QNAP?

- 1. Outstanding quality
- 2. Leading hardware performance
- 3. The most **powerful software functionality** for different application segments including corporate, SMB, and home users
- 4. The largest online forum community for multiple languages: English, German, French, Italian, and Polish
- Green technology with low power consumption and low noise level





















QNAP TS-809 Pro is powered by Intel 2.8GHz CPU and 2GB DDRII memory, a powerful NAS system designed for business users.

- Dual Gigabit LAN ports
- LCD panel
- RAID 0/1/5/6/5 + hot spare/JBOD
- Online RAID Capacity Expansion
- Online RAID Level Migration
- Wake on LAN & Schedule Power on/off

































QNAP TS-439 Pro & TS-639 Pro are powered by Intel 1.6GHz CPU and 1GB DDRII memory, a powerful NAS system designed for business users.

- Dual Gigabit LAN ports
- LCD panel
- RAID 0/1/5/6/5 + hot spare/JBOD
- Online RAID Capacity Expansion
- Online RAID Level Migration
- Wake on LAN & Schedule Power on/off









QNAP TS-509 Pro is powered by Intel 1.6GHz CPU and 1GB DDRII memory, a powerful NAS system designed for business users.

- Dual Gigabit LAN ports
- LCD panel
- RAID 0/1/5/6/5 + hot spare/JBOD
- Online RAID Capacity Expansion
- Online RAID Level Migration
- Wake on LAN & Schedule Power on/off

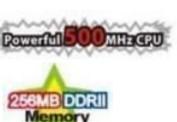
























QNAP TS-409 Series is the 4-bay hotswappable NAS with Online RAID Capacity Expansion, Online RAID Migration & RAID 6 Support

- 4-bay Hot-swappable
- RAID 0/1/5/6/5 + hot spare/JBOD
- Online RAID Capacity Expansion
- Online RAID Level Migration





















QNAP TS-209 Series is the first 2-bay **SOHO NAS with hot-swap design for** SOHO and home.

- RAID 0/1/JBOD and Single Disk
- All-in-one NAS Server
- Secure data access and sharing
- Home multimedia features

















Simply Amazing HARDINFO (Denmark)

Gold Medal Award ComputerGEL dk (Dermark)



Recommended DATOR (Sweden)

PRODUCT OF







APC (Australia)







Recommended PCM (Hong Kong)

Product of the year Herdware-TEST.dk (Denmark)





Recommended





Personal Computer World

Test Winner Rekommendas AV At On Data magazine PC For Alla (Sweden)









(Denmark)







QNAP TS-109 Series is the powerful 1bay NAS with unique fanless, absolutely quiet design for SOHO and home.

- Unique fanless design
- Q-RAID 1 mirroring
- All-in-one NAS Server
- Secure data access and sharing
- Home multimedia features
- PHP MySQL supported



Editor's Cheice Computer/Total (Netherlands)



Golden Tachometer Benchmark (US)



Recommended NooSeeker(US)



Recommended Moro Portable (France)



Hartware net (Germany)



Best of the Best 2007 Marchant PC (US)



High Performance PC Station (HK)



Recommended HAMDINFO (Denmark)



Editor's Choice Think Computers (US)



Selection Product 2007 PresencePC (France)



Recommended PC Viteekly (Hong Kong)



Editor's Choice APC (Australia)



Best Buys PC World (Australia)



Power Award PC3 (Hong Kong)



Silver Award HAM (Singapore)



Golden Bear Award Biorn3D (US)



Best Choice Digitalhome(TVI)



TrustedReviews.com (UK)



EDITOR'S CHOICE

Editor's Choice Personal Computer World



QNAP NAS Market Positioning

QNAP NAS Servers are Positioned at High End Market Segmentation. It is a Powerful and Professional All-in-1 NAS **Server for Corporate, Mid-sized Business, SOHO, Educational Market and Home Users!!!**



- TS-119
- 1-bay, Fanless NAS Server
- Unique Q-RAID 1



• TS-219/219P

swappable NAS

RAID 1 Mirroring

2-bay, hot-











TS-439/509/639 Pro,

TS-439U series and TS-809U-RP

- Online RAID Capacity Expansion
- Online RAID Level Migration
- RAID 0, 1, 5, 5 + hot spare, 6, JBOD
- Virtual Disk
- RAID Recovery

- 1. File Server
- 2. FTP Server
- 3. Backup Server
- 4. Web Server
- 5. MySQL Server
- 6. Remote **Replication**
- 7. Mirror Station
- 8. Printer Server
- 9. Media Server
- 10. Multimedia **Station**
- 11. Download Station
- 12. iTunes Server

Other Storage Products in the Market













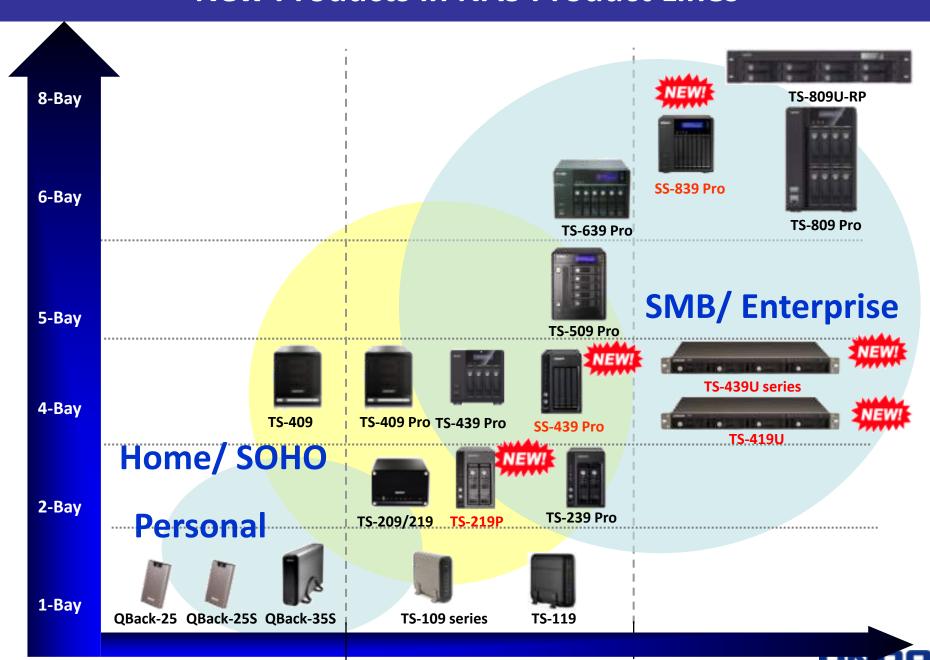




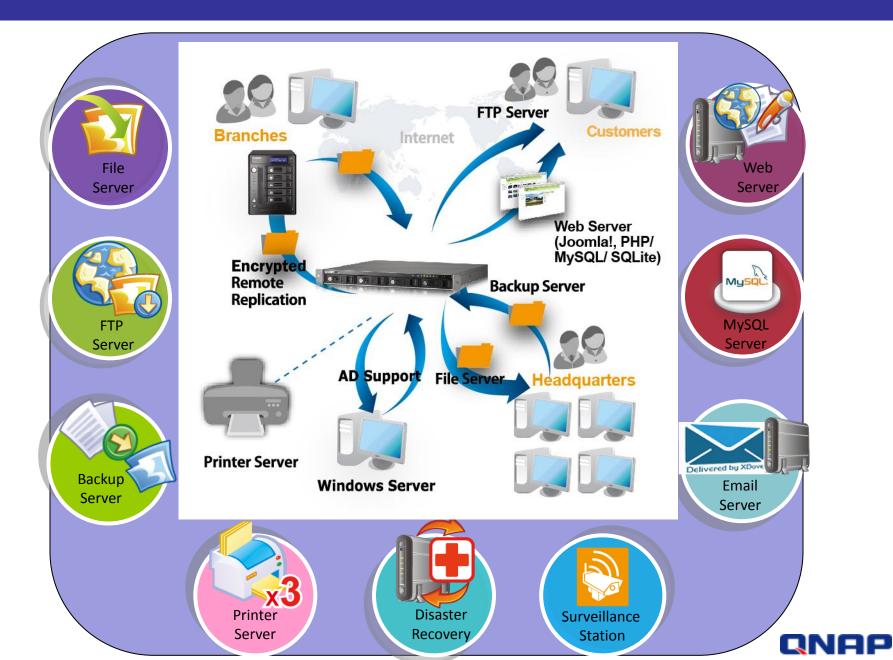
QNAP All-in-1 Turbo NAS



New Products in NAS Product Lines



All-in-1 NAS Applications for Enterprise/SMB



Overview: TS-439U Series









• The TS-439U series is an ideal & powerful network storage solution designed for SMB Users.



- Powered by Intel Atom 1.6 GHz CPU and 1GB DDRII memory
- Redundant Power Supply (*TS-439U-RP only)
- 2.5" and 3.5" HDD dual support
- Dual Gigabit LAN







Excellent Hardware Design: TS-439U series -1

- 3 x USB 2.0 port supported for high expandability!
- Configurable One Touch Copy Button offers more backup convenience
- LED indicators display status of USB, HDD, LAN and system
- Redundant power supply prevents the NAS from downtime (*TS-439U-RP only)
- Dual Gigabit LAN: Failover, Load-balancing, Multi-IP setting





Excellent Hardware Design: TS-439U series -2

Redundant Power Supply for Reliability Upgrade

The TS-439U series can be equipped with 2 power supply units, each of which is capable of supplying the power for the NAS independently. If one of the units fails, the other one will take over to supply the power. You can replace the failed power supply unit without turning off the server.







Best Price Performance Ratio 1U NAS

Hardware



- Powerful hardware spec
 - Intel Atom 1.6GHz CPU + 1GB DDRII RAM



- Rack mount design for easy deployment in the server room
- Redundant power supply for higher reliability
- 2.5" and 3.5" HDD dual support for more flexibility
- Dual Gigabit LAN (802.3ad) for MIS people to deploy the network easily (supports 7 bonding modes)
 - Failover
 - Load-balancing
 - Multiple IP setting
- USB port for high expandability
- Hot-swap HDD design for users to manage disks easily



Best Price Performance Ratio 1U NAS

Software

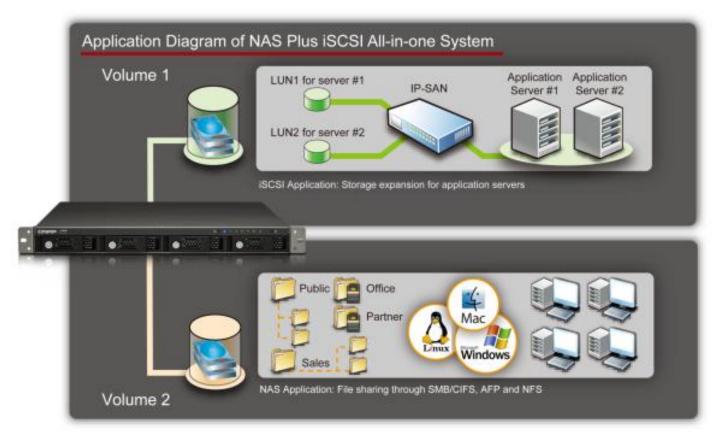


- Built-in iSCSI target service with thin provisioning for flexible storage expansion of the existing application servers
- Virtual disk drive (VDD) for capacity expansion of the NAS
- Advanced disk volume management: online RAID capacity expansion & online RAID level migration
- AES 256-bit volume-based encryption keeps data in a safer way
- RAID Recovery provides reliable data protection
- Easy management tools for IT administration: Wake on LAN (WOL), comprehensive system logs, scheduled power on/ off and instant SMS alert
- SNMP offers centralized management and real-time monitoring of the NAS status
- DOM architecture with embedded fail-safe dual OS



Flexible Built-in iSCSI Target Service

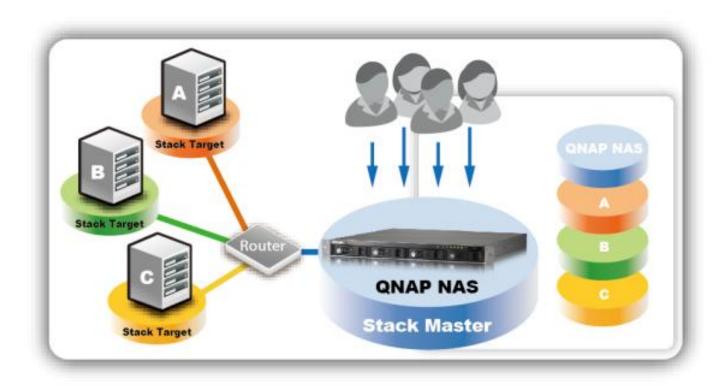
 With the built-in iSCSI target feature, the NAS can be an ideal solution for backup or storage expansion. Small business and SOHO users can easily create dedicated virtual drives (up to 8 iSCSI target LUN) on the NAS for their PCs or existing servers. The iSCSI drives on the NAS can be formatted as file system and used as local drives.





Virtual Disk Expansion

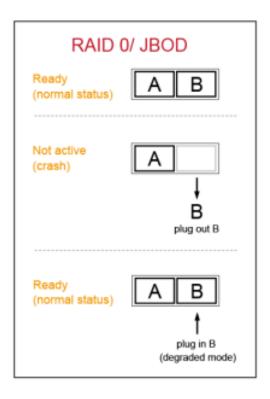
• The VDD (Virtual Disk Drive) feature is supported on the TS-439U-RP that you can use the built-in iSCSI initiator to connect to other iSCSI targets on the network to expand the storage capacity of the NAS.

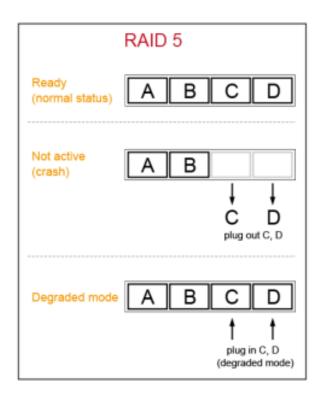


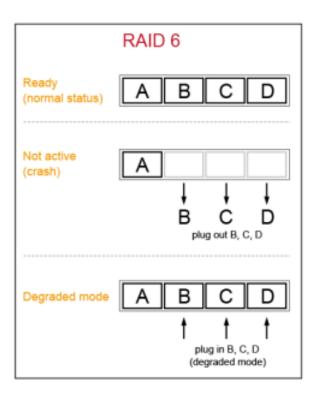


RAID Recovery

 RAID Recovery is the QNAP exclusive technology. It can recover failed RAID 5 and 6 to the degraded mode and failed RAID 0 and JBOD to the normal state.









Power Management

Enable redundant power supply (*This function is disabled by default.)
 If you have two power supply units installed on the Turbo NAS, you can enable redundant power supply mode. When this function is enabled, the system will start to record error messages about the power supply units

in "System Logs".

Hai	rdware					- O- 13 O- 12	
— F	lardware —						
Ŀ	Z Enable cont	iguration r	eset switch				
S	Z Enable hard	disk stan	dby mode (if no access v	within <mark>30 min</mark>	utes 💌 Status LED will be off;)
5	Z Enable light	signal ale	rt when the	free size of d	isk is less tha	an the value: 3072 MB	
5	🛮 Enable alar	m buzzer (I	peep sound	d for error and	l warning aler	t)	
E	Z Enable Red	undant Po	wer Supply	Mode			
S	YSTEM EVENT LOG	S SYSTI	EM CONNECTI	ON LOGS ON-	LINE USERS S	SYSLOG	
All ev	ents 🔻 👀 Clear	Save					
Туре	Date	Time	Users	Source IP	Computer name	Content	
	2009-07-24	15:15:46	System	127.0.0.1	localhost	First power supply failed or removed.	



AES 256-bit Volume-based Encryption-1

If the hard disks or NAS machines are stolen, the stored sensitive data might be leaked !!!

On Turbo NAS, the AES 256-bit Volume-based Encryption feature allows server managers to encrypt each storage volume. It can prevent the sensitive data loss caused by thief. All the data is encrypted by AES 256-bit, malicious persons can only find scramble code on the encrypted hard disks.

<u>Application:</u> bank, government, medical data, financial information, private photos, etc.





AES 256-bit Volume-based Encryption -2

Server managers can choose different levels of security.

A. High security (manually unlock the volume)



Manual unlock:

Server manager log in to management page to input password or import key file to unlock the volume when the system boot up



Encryption Key #1

Server manager keep the encryption key

→ If the machine or hard disks are stolen, all the data cannot be accessed without encryption key

B. Mid security (automatically unlock the volume)







Auto Unlock:

The Encryption Key can be saved on the NAS system that the volume can be unlocked and mounted to the system automatically.

Encryption Key #2

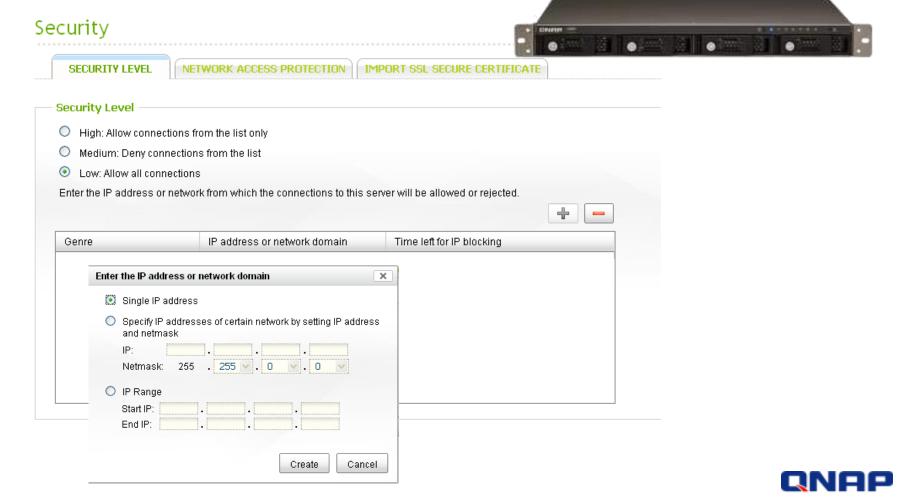
The encryption key is saved on the NAS

- → If the hard disks are stolen, the data cannot be accessed.
- → Cannot fully prevent the risk of machine be stolen but it is more convenient



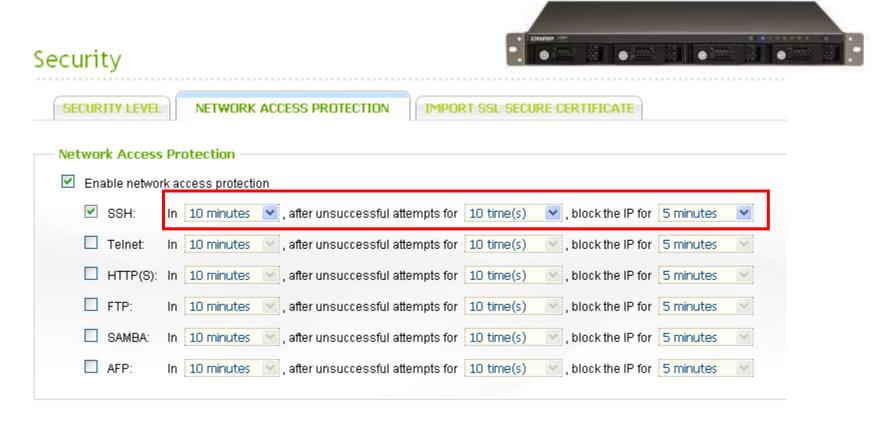
Policy-based Automatic IP Blocking- 1

To prevent the NAS from malicious attacks, the server manager can create an IP filter policy to allow, deny, or auto-blocking the IP address or network domain which attempts to connect to the NAS via SSH/ Telnet/HTTP(S)/ FTP/ samba/AFP.



Policy-based Automatic IP Blocking- 2

Users can control the access to the server according to the number of times an IP fails to login the server via a certain connection method. The connection type includes SSH, Telnet, HTTP(S), FTP, SAMBA, and AFP.





Network Service Discovery

UPnP Discovery Service

After enabling this service, your NAS can be discovered by any operating systems that support UPnP.

• Bonjour

Bonjour uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers, and which makes your NAS becomes more compatible with Mac OS X.





Instant SMS Alert

The instant system alerts would be sent via the SMS Service provided by the SMS Provider.



Server manager could enter 2 sets of mobile phone number worldwide at most to receive the message and manage the system in time.





SNMP (Simple Network Management Protocol)

Simple Network Management Protocol (SNMP) is widely used in network management systems to monitor network attached devices (e.g. NAS). You can set up SNMP trap for alerting via SNMP and there can be up to 3 SNMP trap addresses. Besides, you can also choose the system event log level in SNMP.



SNMP Settings

CONTRACTOR CONTRACTOR		to the managing systems.
Enable SNMP Service Port Number:	161	
ruit Number.	161	
Community:	public	
Send Event:	✓ Information ✓ Warning ✓ Error	
Trap Address 1:	10.8.12.47	
Trap Address 2:	10.8.12.18	
Trap Address 3:		



Online RAID Capacity Expansion

Online RAID Capacity Expansion enables users to flexibly expand the storage capacity with all the data reserved.

Replace the hard drives on TS-439U-RP step by step to increase the







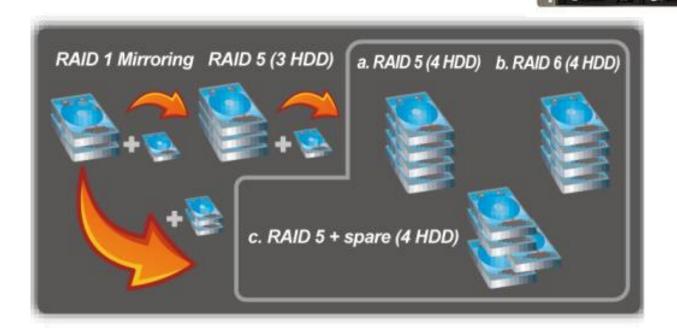
Online RAID Level Migration

Online RAID Level Migration

 Add a hard drive to the disk configuration and migrate to higher RAID configuration for higher level of redundancy.

• Online RAID Level Migration allows users to transfer and upgrade the

RAID level settings easily.



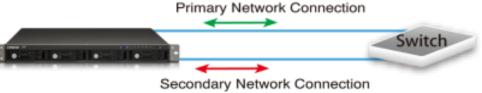


Dual Gigabit LAN Port

Dual Gigabit LAN Ports for More Deployment Options

A. Failover

Failover allows the NAS to sustain the failure of one network port to provide continuous services.



B. Load-Balancing

Bandwidth aggregation is supported to boost the file transfer speed (works with managed Ethernet switch with 802.3ad configured)

- 1. Data flow from clients
- Data traffic evenly distributed to balance network loading



C. Multi-IP Setting

The NAS can be deployed with two different IP settings for sharing among different workgroups in two different subnets.



Support access of multiple IP from different LAN areas



Reliable Software Platform

DOM Architecture with Embedded Fail-safe Dual OS



All the OS and applications are embedded on the DOM.

The TS-439U series allows system booting without accessing the physical disk sectors and that prevents unsuccessful system startup caused by bad block sectors or file errors on the hard drives.

→ Unlike other NAS systems, the TS-439U series's OS & applications are embedded on DOM and requires no installation on the hard disks.

Two operating systems are built on the DOM for system booting alternatively upon every system startup. When one fails, the other one will be used to boot up instead, and the failed OS is recoverable from the other healthy OS.

→ Users don't need to worry about unintended system power outage when upgrading the firmware.



Convenient System Tools





Batch Creation of Users and Corresponding Folders

The NAS administrator can create a serial of user accounts and dedicated shared folders in one shot.



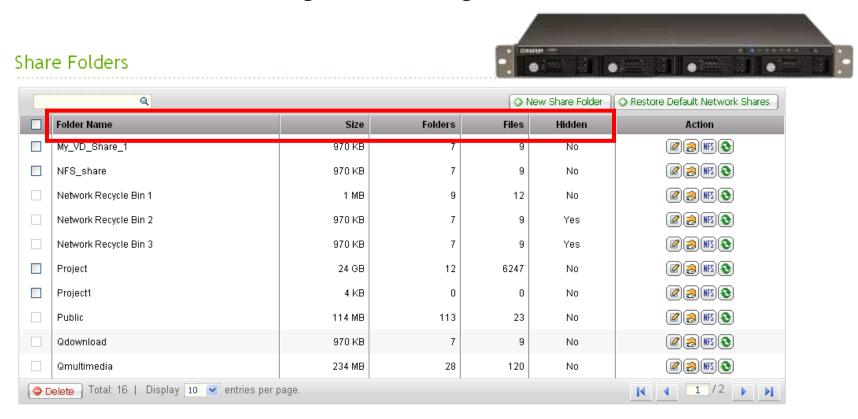


The most flexible schedule power on/off feature is now provided to manage the NAS server's up time according to the working hours. IT administrators can set the time for automatic system power on, power off, or restart on any days of the week.



Volume Status Report

- Users can check the status of the network share folders of the system including the storage capacity, number of folders and files etc.
- Clicking on "Name", "Size", "No. of Folders", "No. of Files", or "Hidden" to sort the contents in ascending or descending order.

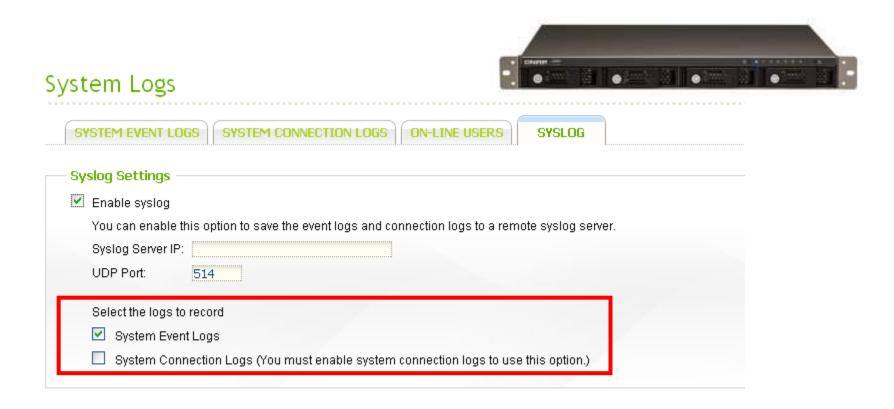




Syslog Server Settings Supported

Syslog is a standard for forwarding log messages in an IP network.

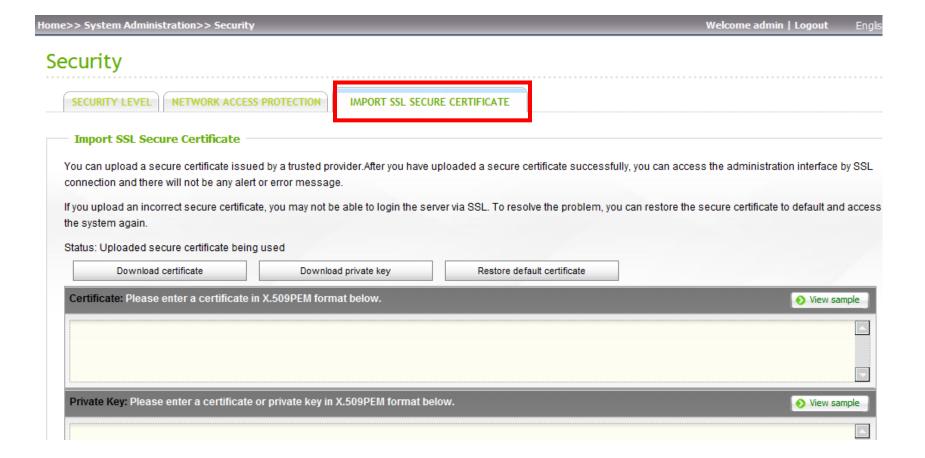
Users can save the event logs and connection logs to a remote syslog server.





Import SSL Secure Certificate

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





UPS (Feature Enhancement)

Users can set the time for the server to enter standby mode when an abnormal AC power supply is detected. When the power resumes, the server resumes to the operation status.

UPS Settings

UPS Settings Enable UPS Support After the AC power fails for minute(s), turn off the server. After the AC power fails for minute(s), the server should enter standby mode. When the power resumes, the system resumes to the operation status. UPS Model: UPS Information UPS Brand: UPS Model: AC Power Status: Battery Capacity: Estimated Protection Time:



CoverFlow-like AJAX Web Interface

Turbo NAS Firmware 3.0

Bring you the best use experience with the AJAX Technology









Multi-Browser Support:

The new UI supports multiple browsers, including Microsoft Internet Explorer 7 & 8, Apple Safari 3 & 4, Mozilla FireFox 3, and Google Chrome.





Real-time Resource Monitor:

Provides you the live view of the CPU Usage, the Disk Usage pie chart, and the bandwidth transfer statistics.







Step-by-step Wizard:

It will guide you through the setting process and make it simple and fast.





QNAP RSS Feed:

Get the QNAP latest news via built-in RSS feed, such as up-to-date firmware, application and QPKG release.







Instant Language Switch:

Language switching function enables you to change the display language within a second in the AJAX way, no page reloading required.





Bonjour:

Bonjour, also known as zero-configuration networking, uses industry standard IP protocols to allow devices to automatically discover each other without the need to enter IP addresses or configure DNS servers, and which makes your QNAP NAS becomes more compatible with Mac OS X.







IP Filter/Network Access Protection:

It's simply the best anti-hacking solution that you will never want to miss.

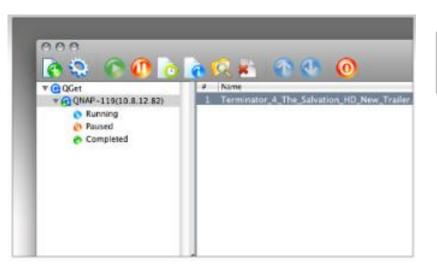




QFinder for Windows & Mac:

The QFinder and QFinder4Mac allow you to discover and configure your QNAP NAS via Windows and Mac platforms.

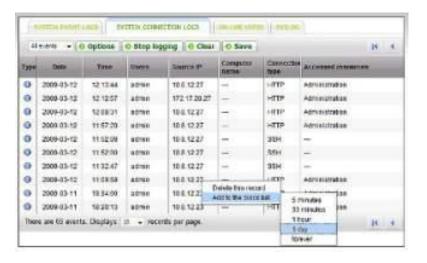






QGet for Windows & Mac:

The QGet is simply the best client application for Download Station, which allows you to control your download jobs remotely.





Comprehensive Log:

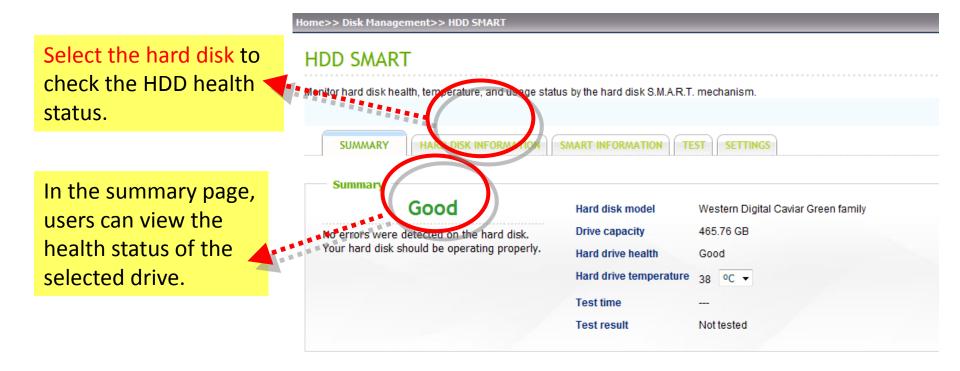
QNAP NAS provides the comprehensive log which records all kinds of events. You can easily manage the log record with the mouse right-click, such as block the source host IP address.



Hard Drive Protection: HDD S.M.A.R.T.-1

HDD S.M.A.R.T. (Self-monitoring Analysis and Reporting Technology) offers a quick overview of the hard drive status which enables users to monitor the hard drives and check potential problems. This tool helps prevent unexpected HDD failure and avoid critical data loss.







Hard Drive Protection: HDD S.M.A.R.T. -2

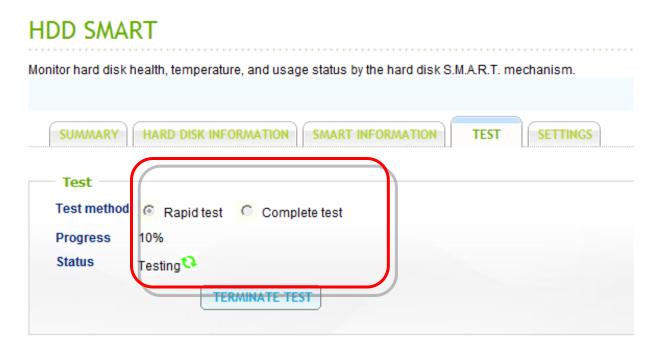
The S.M.A.R.T. information helps the server managers to easily monitor the health status of the hard disks.

SUMMARY HARD DISK INFORMATION SMART INFORMATION TEST SETTINGS						
ID	Description	Value	Worst Value	Threshold	Raw value	Status
1	Raw_Read_Error_Rate	200	200	051	12	OK
3	Spin_Up_Time	142	141	021	5883	OK
4	Start_Stop_Count	100	100	000	253	OK
5	Reallocated_Sector_Ct	200	200	140	0	OK
7	Seek_Error_Rate	200	200	000	0	OK
9	Power_On_Hours	098	098	000	1633	OK
10	Spin_Retry_Count	100	100	000	0	OK
11	Calibration_Retry_Count	100	253	000	0	OK
12	Power_Cycle_Count	100	100	000	80	OK
192	Power-Off_Retract_Count	200	200	000	10	OK
193	Load_Cycle_Count	200	200	000	253	OK
194	Temperature_Celsius	109	091	000	38	OK
196	Reallocated_Event_Count	200	200	000	0	OK
197	Current_Pending_Sector	200	200	000	0	OK
198	Offline_Uncorrectable	200	200	000	0	OK
199	UDMA_CRC_Error_Count	200	200	000	0	OK



Hard Drive Protection: HDD S.M.A.R.T. -3

Server managers can select to execute the diagnostic testing by "rapid" or "complete" test. The NAS will provide a health status result after the testing process is done.



- Rapid Test: Check the first 1.5 GB of the hard disk drive
- Complete Test: Check the complete hard disk drive



Hard Drive Protection: Bad Block Scan & Disk Checking

Advanced Hard Drive Protection (HHS)

The embedded HHS (HDD health scan) technology help users discover the abnormal issue of hard disks to prevent disaster. It is a dual insurance for valuable data on the NAS.



- Bad Block Scanning reports bad blocks of a HDD.
- Disk Checking performs Linux file system checking and fixes any potential errors.

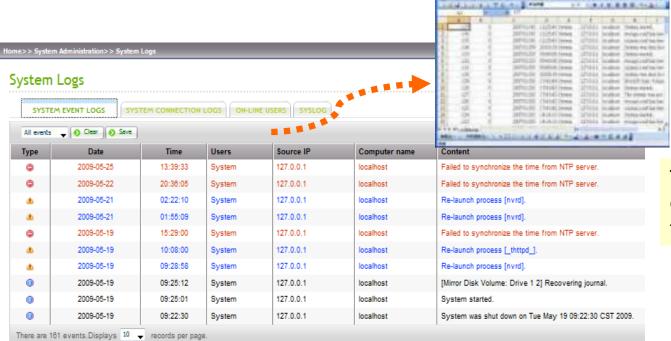


Comprehensive Event Log System

Comprehensive Event Log System

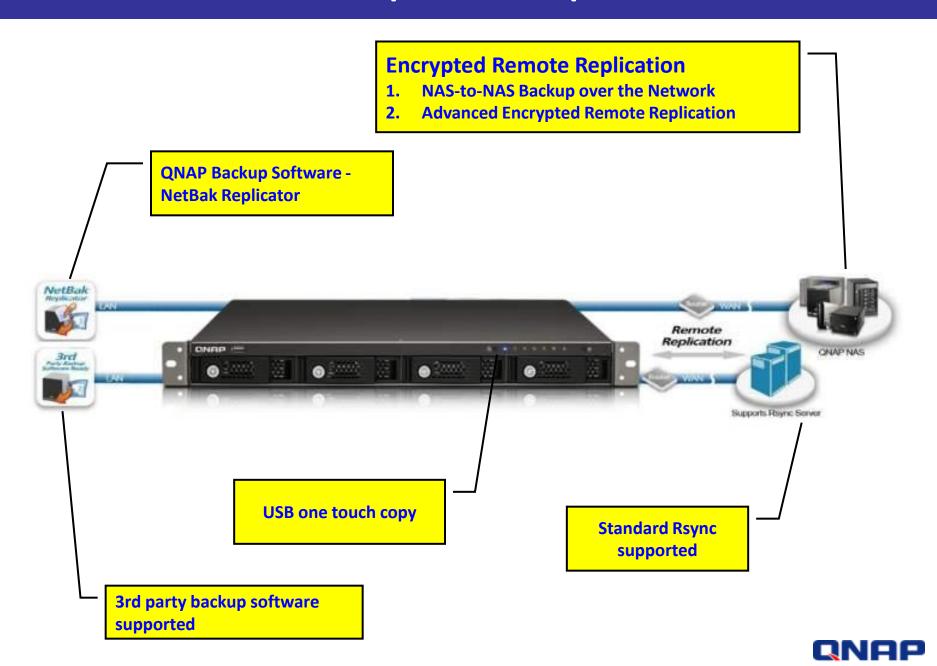
Detailed logs of file-level data access to the Turbo NAS via Samba, FTP, AFP, HTTP(HTTPS), Telnet, iSCSI and SSH, and network services accessed by the online users are all recorded.

IT administrators can easily control detailed logs of each file (who, when, and what actions were done).



The logs can also be exported as Excel (csv) file for analysis.





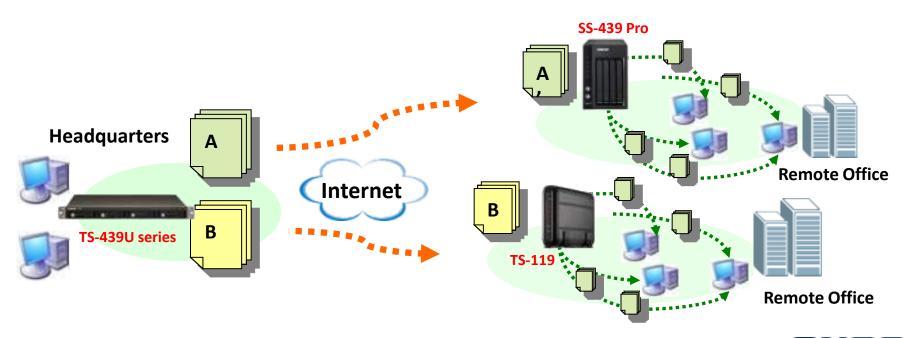
Encrypted Remote Replication

1. NAS-to-NAS Backup over the Network

Files can be backed up from the Turbo NAS to other QNAP NAS products in remote locations.

2. Advanced Encrypted Remote Replication

Advanced options including data compression, block level incremental backup, and data synchronization which save tremendous bandwidth and time for data backup.





Standard Rsync supported

Data on the NAS can be backed up to or from another Turbo NAS or Rsync server over the network securely.

3rd party backup software supported

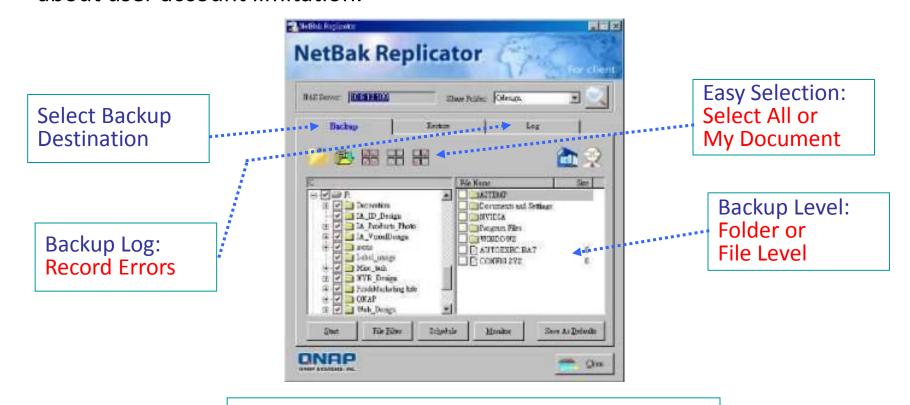
QNAP's Turbo NAS provides a great alternative for tape replacement. Several well-known backup software have been verified that they could smoothly work with QNAP NAS server.

- 1. CA BrightStor ARCserve Backup
- 2. Acronis True Image
- 3. EMC Retrospect
- 4. Symantec Backup Exec
- 5. LaCie SilverKeeper (backup)



QNAP Backup Software - NetBak Replicator

The intelligent automatic backup software- NetBak Replicator is provided for the NAS users to perform real-time synchronization or schedule backup from multiple PCs to the NAS. There is no license issue about user account limitation.

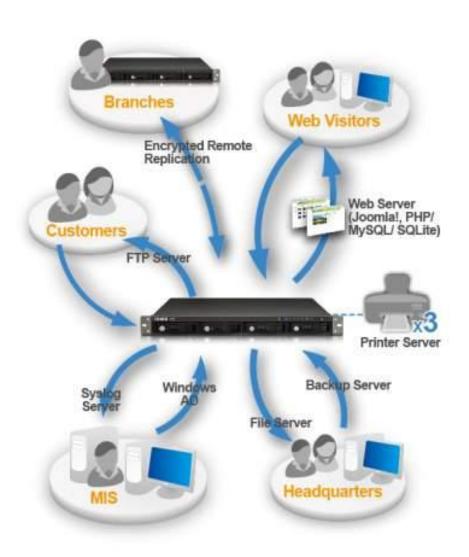


Backup option: Real Time/ Schedule/Instant



All-in-one Server: Business Application

Powerful All-in-one Server!!!



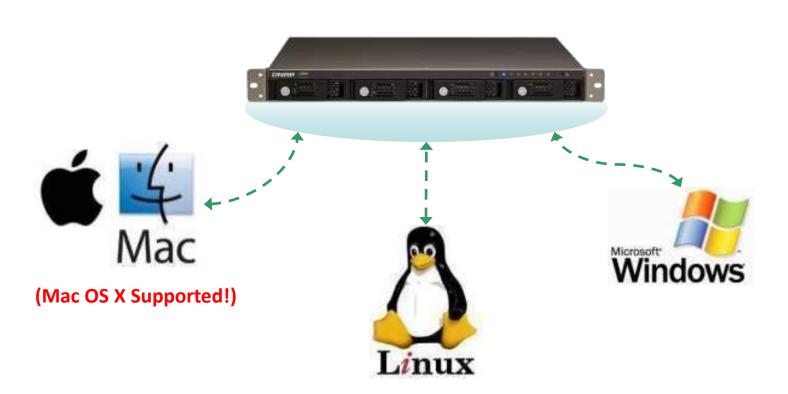
- File Server
- FTP Server
- iSCSI Target
- Backup Server
- Web Server
- MySQL Server
- Remote Replication
- Printer Server
- more...





1. Sharing File Across Windows, Mac, and Linux:

QNAP's Turbo NAS supports NFS, AFP, and SMB/CIFS. You can share files among PCs with different OS easily!

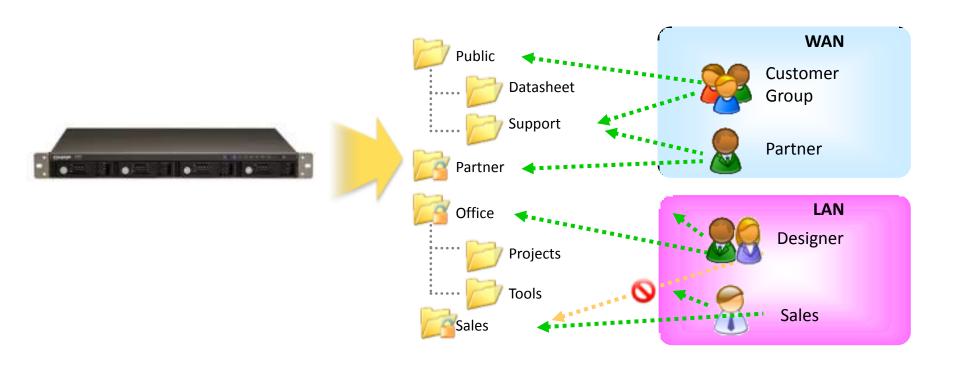






2. Store Files with Access Right Control

Centralized management of documents. Access right of users and user groups can be configured easily. Only authorized parties can read or modify files, which greatly enhances the security of data access.

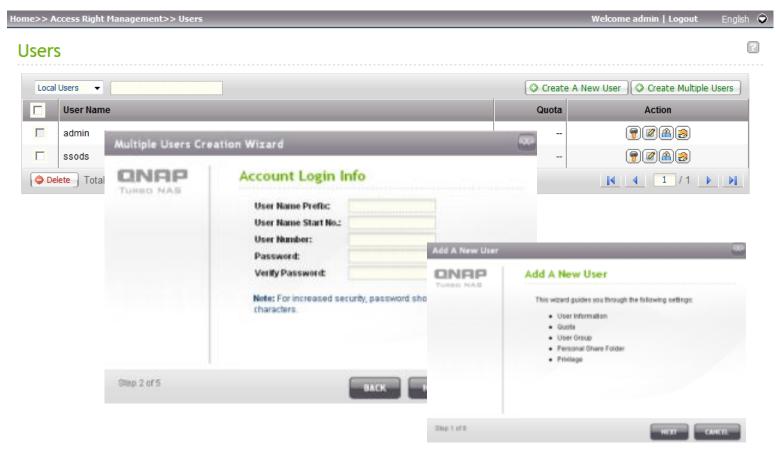




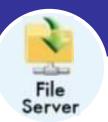


3. Easy-to-use Web-based Management Interface

You can create user ID and password, and define the authority and quota for each user by web browser easily without MIS help.

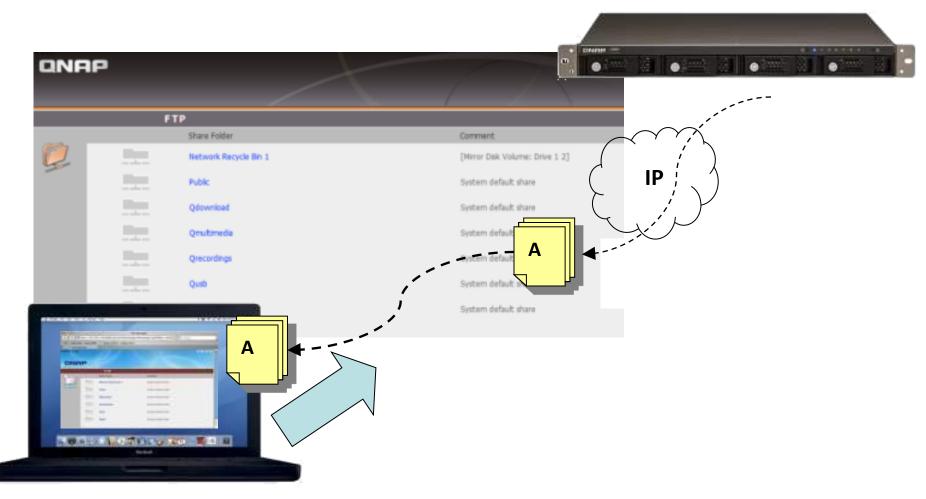






4. Web File Manager:

More than just a disk on your local network, you can also access your stored files anytime, anywhere by web browser!





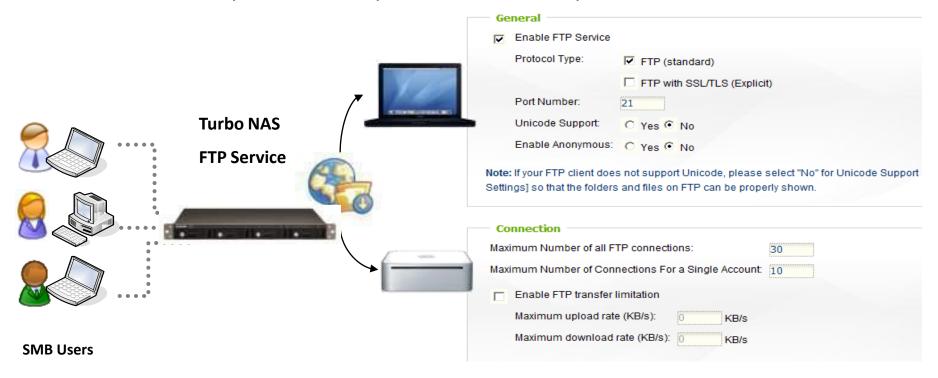
B. All-in-one Server: FTP Server -1



Having troubles with sending large files by e-mails due to the limited capacity?

1. Establish Your Own FTP Server to Share Your Files.

Just a few installation steps, you can manage the access authority of the FTP server and share your files with your customers easily!





B. All-in-one Server: FTP Server -2



2. Sharing File over the Internet Securely

General

Besides access right control, the FTP server supports secure encryption (FTP over SSL/ TLS).

Passive mode FTP port range setup is also supported.

Enable FTP Service							
Protocol Type:	FTP (standard)						
	FTP with SSL/TLS (Explicit)						
Port Number: 21							
Unicode Support:	Unicode Support: C Yes C No						
Enable Anonymous: C Yes O No							
Note: If your FTP client does not support Unicode, please select "No" for Unicode Support Settings] so that the folders and files on FTP can be properly shown.							
Connection							
Maximum Number of all FTP connections: 30							
Maximum Number of Co	nnections For a Single Accou	nt: 10					
Enable FTP transfer limitation							
Maximum upload rate (KB/s): 0 KB/s							
Maximum download	d rate (KB/s): 0 KB/s						



C. All-in-one Server: Web Server

Create Your Forum, Blog, and Online Store Easily

Exclusive Built-in phpMyAdmin, Joomla!, MySQL & SQLite Dual Support! Users can either develop programs by themselves or download a variety of open-sourced applications, such as online shops, forums, blogs over the Internet.

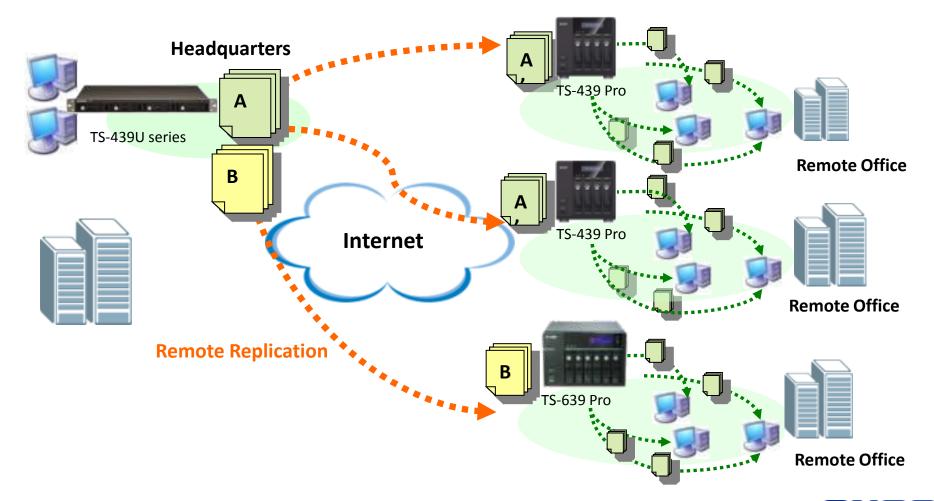




D. All-in-one Server: Remote Replication

NAS-to-NAS Backup over the Network

Files can be backed up from the Turbo NAS to other QNAP NAS products (or Rsync Servers) in remote locations.





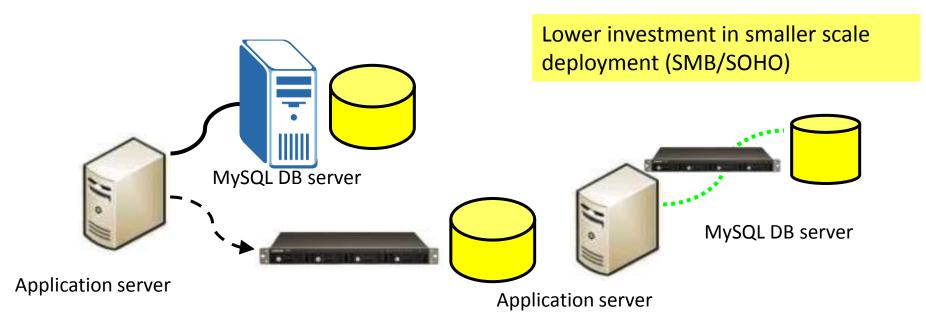
E. All-in-one Server: MySQL Server

Great Solution for System Integrators

QNAP Turbo NAS can be an ideal alternative solution of standalone MySQL database server.

It can be flexibly applied in various deployments such as:

- (1) a database server of another web server in remote site
- (2) an additional backup database server to achieve system redundancy.



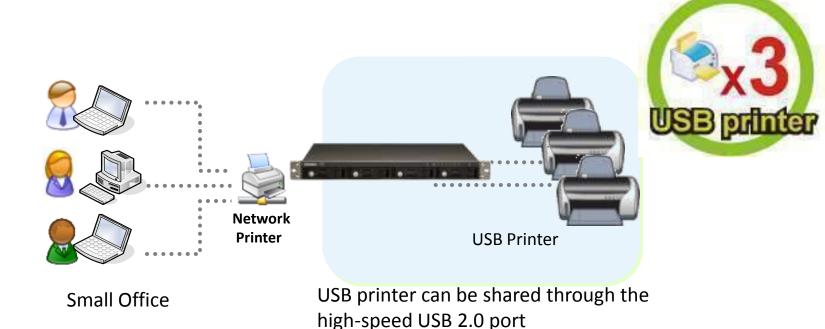


F. All-in-one Server: Printer Server



Share Your Printer Resource by Printer Server

You can share your printer device over the network without duplicating investment by simply connecting a USB printer to NAS's USB port and enabling the printer sharing function.





Surveillance Station

Live Audio & Video Monitoring, Recording and Playback over the Internet

Application:

• Remote monitoring of childcare situation,





Surveillance Station: Features-1



High quality video recording in MPEG4 and Motion JPEG Format



Real-time monitoring and recording for up to 30 frames/ Sec per channel



Live 2-way audio supported for real-time monitoring, and voice broadcasting



Complete recording function

- Motion Detection
 Recording is triggered when a moving object is detected by the camera.
- Continuous / Schedule recording
- Synchronized audio recording



Surveillance Station: Features-2





Different recording modes can be defined for different time periods, e.g. alarm recording at daytime and continuous recording at night time.



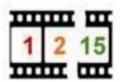
E-mail notification

Alert emails will be sent to administrator immediately when a system error or emergent event takes place.



• Standard video recording format with Time Stamp

The recordings are saved in AVI format (codec provided) for easy playing by Windows Media Player. Time stamp on the video is provided for convenient data search and can be used as legal evidence.



Flexible adjustment of the length of recording files
 Users can adjust the length of the recording files flexibly
 (1-15 minutes)



Surveillance Station: Features-3

Live real-time monitoring



Varity Live video monitoring

Single-channel, 2-channel and Picture-in-picture (PIP) monitoring modes are supported for flexible and keylocation monitoring

Support live 2-way audio

Real-time audio and video monitoring, voice broadcasting

Smart PTZ camera control by direct clicking on the control panel

Users can zoom in/ zoom out and control camera's direction by the "click and go" intuitive control panel. Preset positions can be easily and precisely controlled.



QPKG Software Expansion Platform

Explore the unlimited possibilities of your QNAP NAS!

The QPKG is a convenient platform developed by QNAP to enable users to install lots of useful software applications. The software developed from the users and community worldwide

By a few simple clicks and uploading on the user-friendly GUI, all these applications can be installed. There is no need to go through the hassles of any complicated programming.







Turbo NAS Series' Valuable Features- 1



Windows AD (Active Directory)

The Windows AD feature enables server manager to import user accounts from AD domain to NAS to reduce the time and effort for account setup, and users can use the same set of login name and password.



SSL Security (HTTPS)

All connections between PC and NAS including user ID, password, files, download tasks etc. are encrypted in SSL tunnels and are well protected



USB UPS Support

The NAS supports both APC and MGE UPS devices which help users store the data in time and avoid critical data loss when power outage occurs during data transfer.



Turbo NAS Series' Valuable Features- 2



QNAP Finder (Powerful utility for setup and management)

- The setting of Turbo NAS Series can be easily accomplished by QNAP Finder.
- Users can also restart, shut down, remote wake up the server (via WOL), map disk, etc. on the single console of the powerful tool.



Wake on LAN

Users can enable this option to power on the NAS remotely by Wake on LAN. Wake on LAN helps you manage your NAS conveniently.



Network Recycle Bin

Can you imagine if you delete an important file on the NAS by mistake and lose it forever? You don't need to worry now!

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



QNAP NAS Community Forum

QNAP forum is the largest NAS community with more than 24,500 members (July, 2009). QNAP users can share experience, find answers, get direct support and receive the latest update information here.





Thank you !!!