

As digital files are used widely in daily life, to save these digital files and share them with the family members and friends becomes important. QNAP NAS can act as a storage or multimedia station to meet your needs. You can easily enjoy music, share photos or establish an interactive personal website with its applications. QNAP also designs the brand new AJAX web interface for users to access the NAS in a smooth and intuitive way. Moreover, the NMP-1000 network multimedia player lets you enjoy digital contents on your home network.



**Printer Server**  
The NAS supports network printer sharing function (max 3 USB printers).

**Surveillance Station**  
The Surveillance Station enables you to configure and connect IP cameras simultaneously and remotely manage the functions. The Surveillance Station of QNAP NAS supports all the leading network camera brands such as AXIS, D-Link, IPiX, LevelOne, Linksys, Panasonic and Vivotek, etc.

**Supports PS3 and Xbox360**  
All the photos, music, and videos stored on the Turbo NAS can be played via PS3 or Xbox360 on your LCD TV or stereo Hi-Fi system.

**Remote access to your media files**  
The built-in FTP server and the Web File Manager enable you to upload or download the media files remotely.

**Cinema-grade home theater**  
The NMP-1000 features the powerful SMP8635 SoC hardware-based decoder, HDMI 1.3 interface, and the advanced software decoding technology. The playback of video files encoded in H.264 or the other popular codecs is supported for up to 1080P resolution Full HD ultimate quality. Dolby TrueHD and DTS HD multi-channel digital surround sound can be handled to achieve the cinema-grade enjoyment.

**Using QNAP NAS with iPhone or iPod touch**  
By installing DLNA/UPnP application on the iPhone or iPod touch, you can access QNAP NAS on the local network and play the multimedia contents, e.g. videos, music, and photos on the server.

**UPnP Media Server (with built-in TwonkyMedia Server)**  
The Turbo NAS is a perfect media storage center and it works well with DLNA (Digital Living Network Alliance) compliant media players. You can play the photos and videos on TV, or listen to your favorite music and Internet radio on your Hi-Fi system.

**Multimedia Station for Photo Sharing**  
You can share your photos, video, or music online by the Multimedia Station of the Turbo NAS.

**PC-less Download Station**  
The Turbo NAS supports BitTorrent, FTP, and HTTP download without PC. TCP/UDP, encrypted BT download function, and DHT (Distributed Hash Tables) are also supported. It supports to download BitTorrent, emule/eDonkey and NZB files.

**Music Sharing by iTunes Server**  
All your MP3 music can be collectively stored and streamed to Mac or Windows PC. Just turn on the iTunes program and enjoy all the music around your home network.

**Web Server**  
With the built-in phpMyAdmin, Joomla!, editable php.ini, MySQL and SQLite, you can easily establish your interactive web server and other online applications such as online shops, forums, and blogs.



NMP-1000



TS-119

TS-219P

TS-219P

**Brand New AJAX Web Interface**

The next-gen Turbo NAS firmware 3.0 brings you the best user experience with CoverFlow-like & AJAX technology.

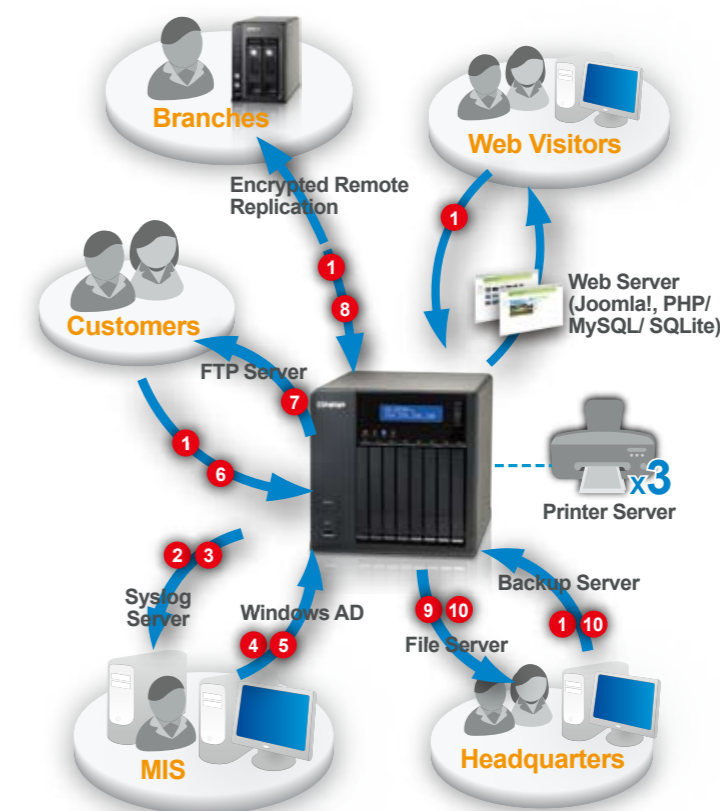
QNAP's new generation NAS is designed for SOHO and SMB users who need a high performance, large capacity and complete backup storage. Up to 8 iSCSI devices can be created for storage expansion or backup destination of the existing application servers on the network. Complete backup solutions are provided for users to back up their data in several ways.

## Secure Measures for Data Storage and Access

- Policy-based Unauthorized IP Blocking:** You can allow, deny or auto block specified IP address or network domain which attempts to connect to the Turbo NAS via SSH/ Telnet/ HTTP(S)/ FTP/ samba/ AFP.
- Comprehensive Log System:** Detailed logs of file-level data access to the Turbo NAS via samba, FTP, AFP, HTTP, HTTPS, Telnet, iSCSI, and SSH, and networking services accessed by online users are all recorded.
- Syslog Setting:** All the system event logs and connection logs can be saved to a remote syslog server.
- Remote Login by SSH (secure shell) or Telnet** connection is supported.
- SSL Security (HTTPS):** The Turbo NAS can be accessed and configured by the web browser securely. You can also upload a secure certificate and RSA private key in X.509PEM format issued by a trusted provider for the users to access the Turbo NAS by secure SSL login.
- Secure FTP:** The data can be transmitted with SSL/TLS (explicit) encryption. Passive FTP port range setup is also supported.
- Write-only access right on FTP server:** The third party partners are allowed to upload data to the NAS but not able to read or edit the data on FTP server.
- Encrypted Remote Replication:** The data on the NAS can be backed up to or from another Turbo NAS over the network securely.
- Share Folder Management:** For the security of Windows network environment, you can hide or show network share folders.
- User Authority Management:** You can create user ID and password, and define the authority and quota for each user.

## Convenient System Tools

- Wake on LAN:** 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:** The files deleted from the network shares of the Turbo NAS will be moved to a particular recycle bin folder. You can restore your data anytime in case of unintended file deletion.
- Batch Creation of Users and Network Shares:** The NAS supports batch creation of users and share folders to save your time and effort in account and folder creation.
- 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.
- Smart Fan:** The fan rotation speed is automatically adjusted according to the server's temperature. You can also define the settings manually.

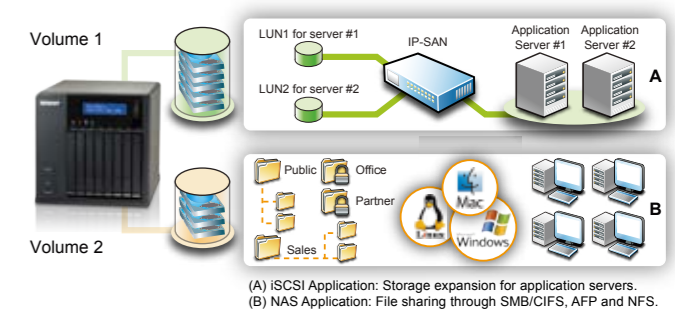


## Complete Backup Solution

- Encrypted Remote Replication:** NAS-to-NAS backup over the network: The files can be backed up from the Turbo NAS to other QNAP NAS products in remote locations. SSH encryption is supported.
- Remote Replication by Rsync:** The data on the Turbo NAS can be backed up to or from another QNAP NAS or Rsync server over the network.
- 3rd Party Backup Software:** The NAS works well with other backup software, e.g. Acronis True Image, CA BrightStor ARCserve Backup, EMC Retrospect, Symantec Backup Exec, and LaCie Silverkeeper.
- 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.
- USB One Touch Backup (USB OTB):** The one touch copy button can be configured to trigger instant data backup from the external USB device to the NAS or the other way round (applies to the USB device connected to the front USB port of the NAS only).

## iSCSI Target Service

The Turbo NAS can act as a NAS and iSCSI target server at the same time. You can make use of the built-in iSCSI target service to add up to 8 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.



## Virtual Space Allocation (Thin Provisioning)

The "Virtual Space Allocation" (Thin Provisioning) feature is provided which allows you to flexibly allocate the capacity of iSCSI LUN (Logical Unit Number) at the beginning regardless of the physical volume capacity. When the physical storage capacity of the volume is going to be full, you can easily expand the storage capacity of the NAS by "Online RAID Capacity Expansion".

## Mac OS X Time Machine Supported

You can easily set up a fast and reliable iSCSI drive on the NAS as one of the system drives on your Mac and use this drive as the Time Machine backup destination.



TS-239 Pro

SS-839 Pro

SS-439 Pro

## About QNAP



QNAP Systems, Inc. is a dominant provider of Linux OS embedded network attached storage (NAS), network multimedia player (NMP) and network surveillance system. We have released numerous NAS, NMP and NVR (network video recorder) series, providing our customers high performance and high reliability backup and security solutions. Today, QNAP continues to lead the industry with our innovation in design and technology. Our products have gained worldwide recognition. Further information about QNAP products is available on [www.qnap.com](http://www.qnap.com).



## Customer Service

Online Support: <http://www.qnap.com/>  
 MSN: [q.support@hotmail.com](mailto:q.support@hotmail.com)  
 Skype: [qnapskype](https://www.skype.com/partner/qnap)  
 Forum: <http://forum.qnap.com/>

## Updates & Download

<http://www.qnap.com/download.asp>

## Product Information

<http://www.qnap.com>

## Dealer Seal

## Hardware Specifications

		Digital Home				Small Business		
Model Name		TS-119	TS-219	TS-219P	NMP-1000	TS-239 Pro	SS-439 Pro	SS-839 Pro
System	CPU	Marvell 1.2GHz	Marvell 1.2GHz	Marvell 1.2GHz	Sigma Designs SMP8635	Intel Atom 1.6GHz	Intel Atom 1.6GHz	Intel Atom 1.6GHz
	Memory	512MB DDRII	512MB DDRII	512MB DDRII	256MB DDR	1GB DDRII	1GB DDRII	2GB DDRII
	Flash	16MB	16MB	16MB	64MB	128MB (DOM)	128MB (DOM)	128MB (DOM)
HDD	2.5"	-	-	-	-	-	-	-
	3.5"	•	•	•	•	•	•	•
	Max. Capacity	2TB	4TB	4TB	2TB	4TB	2TB (500GB x 4)	4TB (500GB x 8)
LAN	Gigabit Ethernet	1	1	1	1	2	2	2
I/O Port	eSATA	1	-	2	1 (to PC)	2	2	2
	USB Port	3	3	3	2	3	3	5
Surveillance	IP Camera	2	2	2	-	2	4	4

## Software Specifications (NAS)

### Operating System

- Linux-embedded system

### Networking

- TCP/IP, DHCP Client, DHCP Server, CIFS/SMB, AFP, NFS, HTTP, HTTPS, FTP, DDNS, NTP
- Failover (\*)
- Load-balancing (\*)
- Multi-IP setting (\*)
- Jumbo frame

### File System

- EXT3 (Internal/ external HDD)
- FAT (External HDD)
- NTFS (External HDD)

### Supported Operating Systems

- Microsoft® Windows® 98/ ME/ NT/ 2000/ XP/ 2003/ Vista
- Mac OS X
- Linux and UNIX

### Disk Management

- Single disk, RAID 0, RAID 1, RAID 5, RAID 5 + Hot spare, RAID 6, and JBOD (\*)
- Multiple RAID (\*)
- Online RAID Capacity Expansion (\*)
- Online RAID Level Migration (\*)
- Disk usage status management
- Check disk (Check Linux file system)
- HDD S.M.A.R.T.
- Bad blocks scan
- PC-less RAID setup via LCD panel for the first time installation (Touch-N-Go) (\*)
- AES 256-bit volume-based encryption (\*)
- Built-in iSCSI target service

### User Management

- Network share management
- Network volume status management
- Share folder level ACL support
- Hide share folder on Windows network

### File System Management

- Network share management
- Network volume status management
- Share folder level ACL support
- Hide share folder on Windows network

- Unicode support
- Journaling file system
- Web File Manager

### Backup Management

- PC-client backup software-NetBak Replicator: Instant/ Schedule/ Auto-sync backup
- Remote replication supports Rsync
- Encrypted remote replication
- One touch USB copy for different destination folders
- Backup to external storage device

### System Tools

- E-mail alert (SMTP authentication)
- SMS alert
- HDD standby mode
- Disk usage alert
- Automatic power on after power loss
- QPKG add-on firmware supported
- System firmware upgrade
- Change homepage logo
- Back up, restore, reset system settings
- Smart fan setting
- Configurable management port
- Policy-based unauthorized IP blocking
- Secure remote login by SSH connection; remote login by Telnet connection
- USB, SNMP UPS support
- Wake on LAN
- Schedule on/ off service (max. 15 settings)
- Network recycle bin
- Import SSL certificate

### Event Logs

- Complete system logs (file level): system events management, connection logs, current connection of on-line users

### Multilingual Support

- English, Traditional Chinese, Simplified Chinese, Japanese, Korean, French, German, Italian, Spanish, Russian, Swedish, Norwegian, Finnish, Danish, and Polish

(\*) dual LAN supported models only  
 (\*) vary by NAS models  
 (\*) multi-bay models only  
 (\*) LCD-equipped models only

## Software Specifications (NMP-1000)

### Networking

- TCP/ IP, HTTP, CIFS/ SMB, NFS, AFP, FTP, DDNS, DHCP client, BitTorrent P2P

### Remote Share

- Up to 6 remote shares via SMB/CIFS or NFS
- Automatic share folder discovery on Microsoft network

### File System

- NTFS (system default)
- FAT32, EXT3

### Client Supported

- Microsoft Windows 2000/ XP/ 2003/ Vista
- Mac OS X
- Linux and Unix

### User Management

- User account management (max. 128 users)
- User group management (max. 32 groups)

### File System Management

- Network share management (max. 128 shares)
- Unicode support
- Web File Manager

### System Tools

- HDD standby mode setting
- System firmware upgrade
- System logs

### TV System

- NTSC/ PAL

### Max. Resolution

- 1920 x 1080p (Full HD)

### Screen Aspect Ratio

- 4:3 or 16:9

### Audio Formats

- FLAC, WAV, WMA, AAC, PCM, AC3, Ogg, M4A, DTS

### Image Formats

- BMP, JPEG/ JPG, PNG

### Video Formats

- Codec: MPEG1, MPEG2, MPEG4, XVID, H.264, H.263, WMV9, VC1
- Container: AVI, MPEG/MPG, VCD (ISO, MPG), DVD (VOB, IFO, ISO), WMV, ASF, TP, TS, TRP, M1V, M2V, M4V, M2P, M2T, M2TS, MTS, MOV, MP4, RMP4, MKV, TOD, MOD, 3GP

### Playlist

- M3U, PLS, WPL, ASX

### Subtitle Compatibility

- SRT, SUB, SMI, TXT, ASS, SSA, SUB (with idx)

### File Server

- Share files across Windows/ Mac/ Linux and UNIX and centralized management

### FTP Server

- Access files from remote location via FTP server
- Supports up to 16 concurrent connections (NAS mode)

### Download Station

- PC-less BitTorrent download
- Unique remote download utility QGet (Windows/ Mac) for remotely drag download task

### Content Management

- Automatic categorization of local and remote disk data
- User rating of video and music files
- Photo sorting by date taken

### User Customization

- Home menu style selection
- Subtitle size and location settings

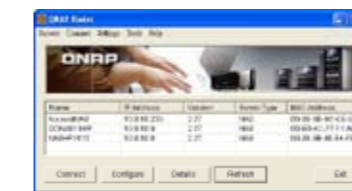
### Multilingual Support

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## QNAP Unique Utilities

### Windows Users

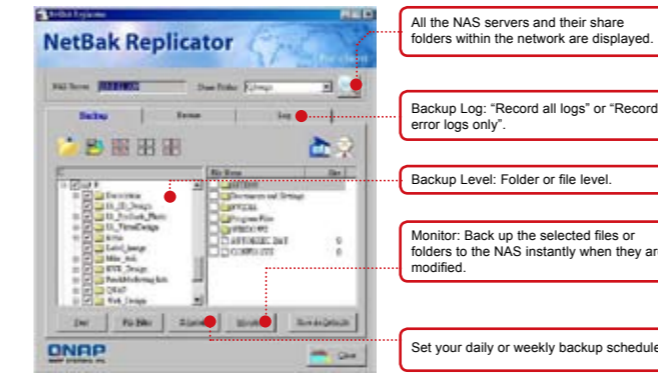
#### Finder



The Finder can be used to initialize, configure, restart, shut down, or remotely wake up the server, or map network drives.

#### NetBak Replicator

The backup software, NetBak Replicator, is provided for the NAS users to perform real-time synchronization or schedule backup from multiple Windows PCs to the NAS. Options available: instant backup, data restore, file filter, schedule backup, and monitoring (real-time backup), etc.



#### QGet - Remote Download Management Utility

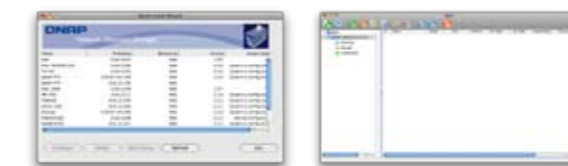


You can use the QGet download management utility to maintain the BT, HTTP, or FTP download tasks of multiple Turbo NAS servers over LAN or WAN.

\*NMP-1000 does not support FTP download.

### Mac Users

QNAP also provides Mac Finder (like Windows-based Finder) and Mac QGet.



## Available QPKG Software Packages (NAS only)



### XDove

The all-in-one mail server that provides SMTP, POP3 and IMAP services, besides it also offers variety of add-on features like multiple virtual domains and accounts, AJAX webmail with extended functionalities including personal folders, address book, calendar and real-time chat among users under the same mail domain.



### AjaXplorer

AjaXplorer is an easy-to-install file explorer for remotely managing files on a web server. Its "rich client" layout and actions make it accessible to any end-user for a variety of purposes: file management/sharing, photo gallery, code browsing, etc. (quoted from <http://www.ajaxplorer.info/>)



### phpMyAdmin

phpMyAdmin is an open source tool written in PHP intended to handle the administration of MySQL over the Internet. Currently it can create and drop databases, create/drop/alter tables, delete/edit/add fields, execute any SQL statement, and manage keys on fields.



### Optware Ipkg (Itsy Package Management System)

Ipkg, or the Itsy Package Management System, is a lightweight package management system designed for embedded devices.



### Python

Python is a general-purpose, high-level programming language. Its design philosophy emphasizes programmer productivity and code readability.



### SABnzbd+

SABnzbd+ is a multi-platform binary newsgroup downloader written in Python language. The program works in the background and simplifies the downloading, verifying and extracting of files from Usenet.



### Joomla!

Joomla! is a free, open source content management system for publishing content on the world wide web and intranets. The system includes features such as page caching to improve performance, RSS feeds, printable versions of pages, news flashes, blogs, polls, website searching, and language internationalization.



### WordPress

WordPress is a free, open-source personal publishing system that allows you to easily create a complex blog, or web log, on your site.



### Slim Server on Turbo Station (with SqueezeCenter 7)

Squeeze Center is the server software from Slim Device that manages common digital audio formats (.mp3, .flac, .ogg, etc.) and streams them to its players. Slim Server On Turbo Station (SSOTS) developed by filipip is an add-on to the Turbo Station's firmware which provides the environment to run Squeeze Center 7 on it.



### MLDonkey (eMule)

MLDonkey (eMule) is a door to the 'donkey' network, a decentralized network used to exchange big files on the Internet and present most features of the basic Windows donkey client (e.g., eMule).



# NAS & Media Storage Solutions

Empower Your Digital Life

