

# All-in-one NAS Server

## TS-101 Turbo Station



### Hottest firmware 2.0 "Newest powerful features"

#### Easier download

- Support QGet, remote download management
- Continuous BT/FTP/HTTP download without PC
- UPnP NAT port forwarding
- Browsing by Mozilla Firefox on Mac OS

#### Multimedia Station Enhanced

- Support iTunes server to share and play music
- UPnP Server is upgraded to TwonkyMedia v4.2

#### Higher data security

- HTTPS login enables secure access
- Network recycle bin for restoring deleted files

#### More convenient networking

- DDNS service can be accessed by a domain name.
- DHCP server can automatically assign IP in LAN

#### TS-101 Features

- Fanless and Noise-free, outstanding heat dissipation
- Shock-resistance, anti-collision aluminum design
- Most reliable Triple backup: PC backup, Q-RAID 1, Remote Replication
- All-in-one server include printer server, web server, ftp server, backup server, file server
- Unique Web File Manager, manage stored files anytime, anywhere !
- Easy to use, simple set-up in a few steps
- Support SATA HDD up to 750GB or above, and extendable to 1.5TB by eSATA/USB port





# All-in-one NAS Server

## TS-101 Turbo Station

The World's Most Powerful & Reliable Mini NAS Barebone System



### Multimedia Station

#### Enrich Your Digital Multimedia Life

TS-101 supports user-friendly web interface to allow administrator to manage albums, authorized users to preview image, audio or video files, and print or play photos by slide show.

Share Precious Moments of Your Life with Friends & Family  
Precious photos and video files can be saved in TS-101 and shared among friends and family via the network.

#### Flexible Viewing Mode

Multiple ways of viewing multimedia files are provided that you can view image or video files directly, or use thumbnail display to preview photos.



Share with Friends & Family



### Download Station

#### Uninterrupted Download Anytime Anywhere

TS-101 enables P2P (Bit Torrent) to download files automatically independent of PC. TS-101 can fully utilize your broadband and run 24 hours a day but consumes little power.

You can manage download tasks, arrange download priority, and configure port number, download and upload rate when you are away from home, and enjoy the downloaded files when you get back.

Select BT seeds for downloading



Users do not have to monitor the download process



### Mirror Station

#### Protect Your Data with Q-RAID 1

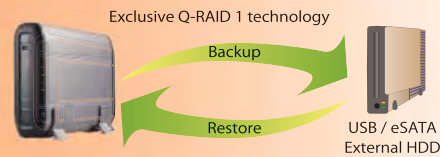
The very first single disk to support RAID 1 mirroring protection by external hard disk in the world!

#### Exclusive Q-RAID 1 Technology

When backup is executed once, data can be automatically backed up by connecting the external disk to TS-101 directly. There is no need to configure the settings in administration interface. Manual operation is required for the first time backup to enhance secure data protection.

#### Restore Critical Data from Q-RAID 1

When the main storage disk is damaged, the backup disk can be installed to TS-101 to resume normal operation. You can also purchase and install a new hard disk in TS-101 and restore the data from the Q-RAID 1 backup disk.



Restore critical data from Q-RAID 1 HDD



### Disaster Recovery

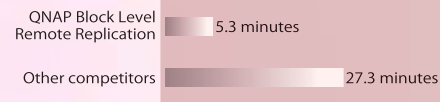
#### Remote Replication, Achieves Disaster Recovery

Files can be backed up from TS-101 to another TS-101 or other QNAP NAS products in remote location for speedy data recovery.

TS-101 Block Level Remote Replication supports backup of modified data and greatly reduces replication time compared to commonly used file level transfer. Besides, automatic data compression transmission mode saves up to 2/3 transfer time.

TS-101 Remote Replication also comes with instant, scheduled, synchronization mode for the best remote backup management.

Fastest Network Remote Replication



Copy 100MB file via 512K ADSL (10MB changed)



### Backup Server

#### Makes Backup a Simpler Work

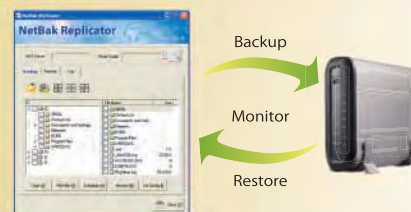
Using client-side backup software-NetBak Replicator, data can be backed up in one click. TS-101 is the most convenient file backup center.

#### Practical Functions of Client-side Backup Software

- Instant & schedule automatic backup
- File filter function
- Real time file monitoring and backup
- File restore from remote destination

#### High Usability Backup Choices

Users can select multiple folders and files for backup simultaneously through either LAN or Internet connection.



### File Server

Centralize all your data. Files are stored and accessed via network so the need to send large size email or use costly overnight mail to send CD are virtually eliminated.



### iTunes Server

Support iTunes server, play all your music by iTunes.



### Printer Server

Simply connect USB printer to the USB port of TS-101 to enable printer sharing function without occupying any PC resource.



### FTP Server

TS-101 can simplify the procedure of establishing an FTP server in a few steps without the need to seek for MIS help.



### Home Media Server

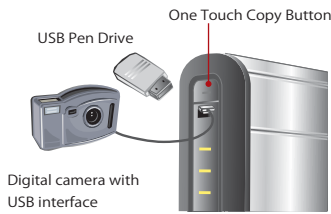
Supports UPnP/DLNA multimedia technology, play video, music and photo on TV via Digital Media Player.



### Web Server

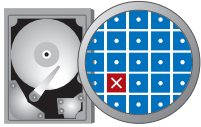
TS-101 enables you to establish your website with PHP and SQLite on the Internet. There is no need of going through all the hassles of setting up a web server.

## Intelligent One Touch Auto Copy



When USB device is installed, simply press the copy button and all USB data can be copied to TS-101 independent of PC.

## Advanced HDD Health Scanning (HHS)



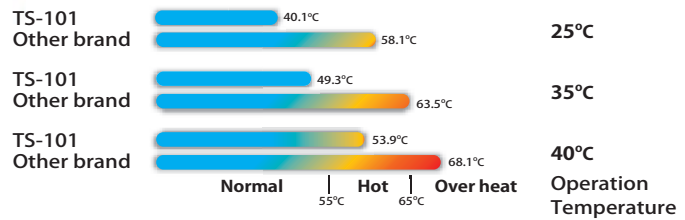
Embedded HHS technology advises bad blocks before HDD crash.

## QGet: remote download management software

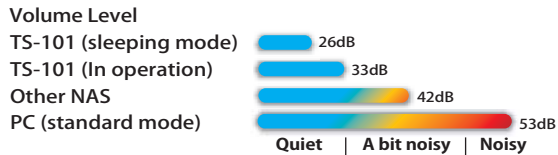


QGet is a powerful download management software. Can be installed on any computer running Windows 2000 or XP. Users can simultaneously manage BT, FTP and HTTP download tasks of multiple Turbo Station servers. Users can drag and drop torrent files to QGet directly or right click download links on IE browser (6.0 or above) and select Download by QGet for file download.

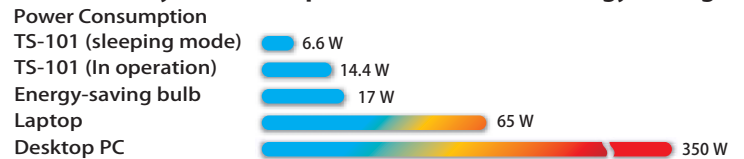
## Outstanding thermal performance with pure aluminum design



## Unique fanless design with outstanding heat dissipation



## Consume only 14.4 W in operation, lower than energy-saving bulb

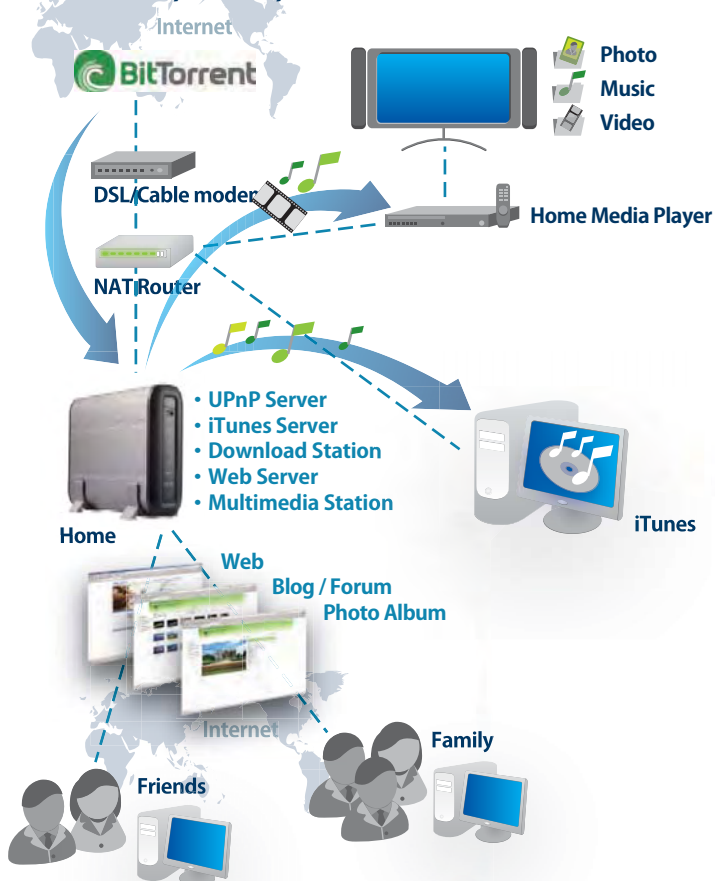


# Applications of TS-101

## Personal Use

Easy to install and use, you can set up your own data center in a few minutes. TS-101 helps manage your multimedia, FTP, web and download station smartly. You can share files with friends around the world.

## Personal, Home, SOHO Users

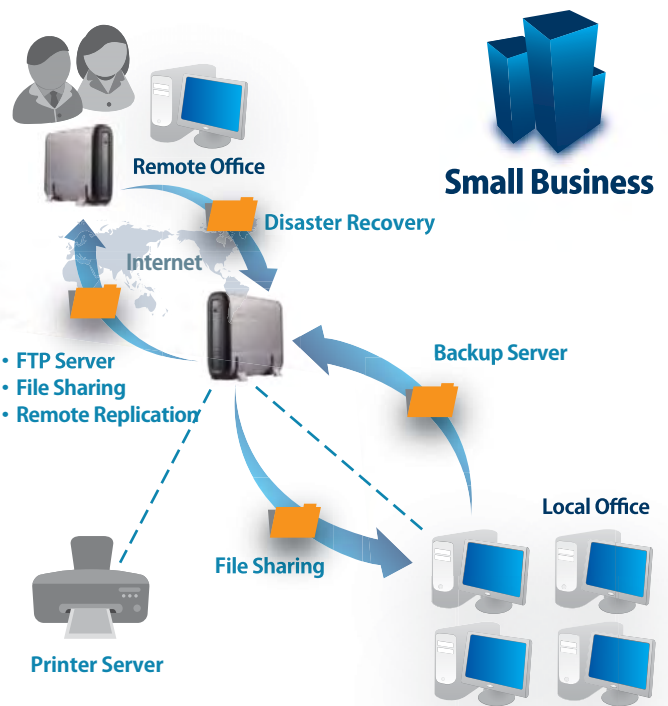


## Home User

Provide a home-based network platform and friendly web-based user interface for family members to easily store, manage, share and back up large files. Enrich your digital home life in a simple way.

## Small Business

Provide a smart and simple backup server (business solution) for local PC in LAN or PC in remote location through internet. TS-101 protects your business data, helps you reach more customers and serve them better.



# Hardware Specifications

CPU	SoC 266MHz
Memory	64MB DRAM, 16MB Flash
HDD Capacity	1 x 3.5" SATA I/II HDD, up to 750GB or above (the standard system is shipped without HDD)
LAN Port	1 x Gigabit RJ-45 Ethernet port
LED Indicators	USB, Status, HDD, eSATA, LAN, Power
USB	3 x USB 2.0, support USB printer, disk, digital camera, pen drive, card reader, USB hub
eSATA	1 x eSATA port
Buttons	Intelligent USB auto copy button Power Button Reset Button
Alarm Buzzer	System warning
Form Factor	Portable desktop
Dimensions	210(D) x 60(W) x 182(H) mm
Weight	Net weight: 1.2Kg, Gross weight: 2.5Kg
Operation Environment	Temperature 0~35°C Humidity 0~85% R.H
Power Supply	External power adapter, 36W, 100~240V
Power Consumption	Sleep mode 6.6W In operation 14.4W
Energy-saving	Fanless, HDD sleep mode
Design	Low power consumption & low noise
Thermal Solution	Heat dissipation by aluminum case
Secure Design	K-Lock security slot for theft prevention Power cord hook for kicking-off prevention

# Powerful All-in-one Server

File Server	Share files across Windows/Mac and centralize management
FTP Server	Access file from remote location via FTP server
Backup Server	Client-side backup software-NetBak Replicator supports instant, schedule and real-time backup
Mirror Station	Protect data by Q-RAID 1 technology
Print Server	Network printer sharing via USB (Support Windows platform only)
Disaster Recovery	Block level remote replication supports instant, scheduled, Synchronization mode remote backup management
Web Server	Establish users own web page and interactive websites with PHP and SQLite
UPnP MediaServer	Support UPnP/DLNA multimedia technology Internet radio
iTunes Server	Support iTunes server

Multimedia Station	<ul style="list-style-type: none"> <li>Image slide show, Rotate (+90°, -90°)</li> <li>Showing photo information from digital camera</li> <li>Viewing by thumbnail</li> <li>Album management</li> <li>Multimedia (video, audio) file local play</li> </ul>
Download Station	<ul style="list-style-type: none"> <li>Support BitTorrent/FTP/HTTP Download</li> <li>Download task management (automatic relaying if interrupted)</li> <li>Download configuration(current download seed number, port setting, upload / download speed, UPnP port forwarding)</li> <li>Download status list management (download percentage)</li> <li>Support access from Mac by Mozilla Firefox</li> </ul>

# Software Specifications

Operation System	Linux embedded system
Network Transport Protocols	TCP/IP, AppleTalk®
Network File Protocols	Microsoft® networks (CIFS / SMB), Apple® (AFP), Internet (HTTP), Secure Internet (HTTPS), File Transfer Protocol (FTP, max suggested 16 concurrent connections)
OS Supported (for Client PC)	Microsoft® Windows® 98/ME/NT/2000/XP/2003/Vista* Macintosh® OS9/OSX
Network Management	Fixed/Dynamic IP , DDNS service, DHCP server, Jumbo Frame
Disk Management	Single disk Q-RAID 1 with external USB / eSATA Hard disk Disk usage status management Check disk / bad blocks scan
Device Configuration	SATA disk, USB disk, USB printer, eSATA disk
User Management	User account management (max 512 users) User group management (max 1024 groups) Configurable password by user
File System Management	Network share management (max 1023 Shares) Share level ACL support, Unicode support, Web file manger Journaling file system, Over 2 GB files support
System Tools	E-mail alert (support SMTP authentication) HDD standby mode setting, disk usage alert Auto power on, system firmware upgrade Change homepage Logo, Network recycle bin Backup, restore, reset system setting
Event Log	Display system log / alert / error
System Management	Web-based administration (auto detect language) Quick Install Wizard, LED display Reset button, support network time protocol
Multi-language Support	English, Traditional Chinese, Simplified Chinese, Japanese, Korean, French, German, Italian, Spanish, and Russian
Backup Management	Support client backup software NetBak Replicator Schedule to Remote Replication backup Block level Remote Replication

\* To be supported in future firmware and utilities. Designs and specifications are subject to change without notice. Please contact QNAP for updated information.



## Awards-winning



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