Superior Performance NAS with iSCSI for Business

Business Series Turbo NAS













		13 233 110 1/13 233 110 11	13 133 110 1/13 133 110 111	13 333 110	15 055 110	13 033 110	15 005 110		
	CPU		Intel® Core 2 Duo Processor (2.8GHz)						
Hardware	RAM			2GB DDRII RAM					
	Max. Number of Internal Hard Disks	2	4	5	6	8	8		
	Dimensions	• 150(H) x 102(W) x 216(D) mm • 5.91(H) x 4.02(W) x 8.5(D) inch	• 177(H) x 180(W) x 235(D) mm • 6.97(H) x 7.09(W) x 9.25(D) inch	• 185(H) x 210.6(W) x 235.4(D) mm • 7.28(H) x 8.29(W) x 9.27(D) inch	 175(H) x 257(W) x 235(D) mm 6.89(H) x 10.12(W) x 9.25(D) inch 	 185.2(H) x 298.2(W) x 235.4(D) mm 7.29(H) x 11.74(W) x 9.27(D) inch 	 298(H) x 200(W) x 270(D) mm 11.73(H) x 7.87(W) x 10.63(D) inch 		
	Weight	1.74kg/3.84 lb (Net)2.92kg/6.44 lb (Gross)	3.65kg/8.04 lb (Net)4.65kg/10.24 lb (Gross)	 5.1kg/11.24 lb (Net) 6.5kg/14.33 lb (Gross) 	 5.2kg/11.46 lb (Net) 6.5kg/14.33 lb (Gross) 	 7.3kg/16.08 lb (Net) 8.6kg/18.94 lb (Gross) 	 8.1kg/17.86 lb (Net) 9.8kg/21.61 lb (Gross) 		
	Power	AC Input Power Voltage: 100V–240V Power Frequency: 50Hz–60Hz External Power Adaptor	• AC Input Power Voltage: 100V–240V • AC Input Power V • Power Frequency: 50Hz–60Hz • Power Frequency: • Internal Power Supply: 250W • Internal Power Su				AC Input Power Voltage: 100V–240V Power Frequency: 47Hz–63Hz Internal Power Supply: 350W		
	Fan	Smart Fan: 1 (7cm, 12V DC)	Smart Fan: 1 (9cm, 12V DC)	Smart Fan: 1 (12cm, 12V DC)	Smart Fan: 2 (9cm, 12V DC)	Smart Fan: 2 (12cm, 12V DC)	Smart Fan: 2 (12cm, 12V DC)		
	Power Consumption	Sleep: 16W/15W* In Operation: 25W/22W*	Sleep: 19W/19W* In Operation: 35W/33W*	Sleep: 21W In Operation: 38W	Sleep: 22W In Operation: 43W	Sleep: 30W In Operation: 59W	Sleep: 42W In Operation: 81W		
Software	Disk Management	Single Disk, JBOD, RAID 0, 1	Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5 + Hot Spare	Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5 + Hot Spare, 6 + Hot Spare, 10 + Hot Spare			Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5 + Hot Spare, 6 + Hot Spare, 10 + Hot Spare		
	Access Right Management	Max. User Accounts: 2048 Max. Groups: 256 Max. Share Folders: 256							
	IP Camera Support	2	4						
	Touch-N-Go Installation	-							
Performance	SAMBA (Read/Write)	• 115.1/105.7 • 114.7/100.8* (MB/sec)	• 115.4/107.0 • 115.1/88.3* (MB/sec)	116.1/104.3 (MB/sec)	116.1/103.4 (MB/sec)	116.1/106.8 (MB/sec)	115.4/101.2 (MB/sec)		
	FTP (Read/Write)	• 115.7/114.4 • 115.1/108.7* (MB/sec)	• 116.4/115.4 • 115.4/93.7* (MB/sec)	113.5/101.3 (MB/sec)	115.0/102.4 (MB/sec)	115.2/102.4 (MB/sec)	115.6/97.7 (MB/sec)		

		TS-412U	TS-419U+	TS-459U-RP/ SP+	TS-859U-RP+	TS-809U-RP	
Hardware	CPU	Marvell 6281 1.2GHz	Marvell 6282 1.6GHz	Dual-core Intel® Atom™ Pro	cessor (1.8GHz)	Intel® Core 2 Duo Processor (2.8GHz)	
	RAM	256MB RAM	512MB RAM	1GB	1GB RAM		
	Max. Number of Internal Hard Disks	4			8		
	Dimensions		V) x 483(D) mm 97(W) x 19.02(D) inch	• 44(H) x 439(W) x 499(D) mm • 1.73(H) x 16.97(W) x 19.65(D) inch	• 88.9(H) x 482.6(W) x 531.5(D) mm • 3.5(H) x 19(W) x 20.93(D) inch		
	Weight	9.5kg/20.94 lb		10.3kg/22.71 lb	14.87kg/32.78 lb		
	Power	Power Freque	ver Voltage: 100V–240V ency: 50Hz–60Hz er Supply: 250W	 Redundant PSU AC Input Power Voltage: 100V–240V Power Frequency: 50Hz–60Hz Internal Power Supply: 150W 	• Redundant PSU • AC Input Power Voltage: 100V–240V • Power Frequency: 47Hz–63Hz • Internal Power Supply: 300W		
	Fan		Smart Fan: 2 (4cm, 12V DC)	Smart Fan: 3 (8cm, 12V DC)			
	Power Consumption	Sleep: 14W In Operation: 28W	Sleep: 15W In Operation: 29W	Sleep: 40W In Operation: 62W	Sleep: 46W In Operation: 73W	Sleep: 53W In Operation: 101W	
	Disk Management		Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5 + Hot Spare		Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5 + Hot Spare, 6 + Hot Spare, 10 + Hot Spare		
Software	Access Right Management			Max. User Accounts: 4096 Max. Groups: 512 Max. Share Folders: 512			
	IP Camera Support			4			
	Touch-N-Go Installation	•			Yes		
Performance	SAMBA (Read/Write)	• 91.4/33.4 (MB/sec) 101.7/43.5 (MB/sec)		115.4/107.0 (MB/sec)	116.1/106.8 (MB/sec)	114.9/103.1 (MB/sec)	
	FTP (Read/Write)	• 100.5/32.2 (MB/sec)	114.1/42 (MB/sec)	116.4/112.3 (MB/sec)	115.6/97.7 (MB/sec)	113.7/100.2 (MB/sec)	

iSCSI and Virtualization Deployment

QNAP Business Series Turbo NAS servers are fully VMware and Citrix ready and Windows Server 2008 Hyper-V clusters compliant.

NAS + iSCSI Combo Solution:

The Turbo NAS can serve as a NAS for file sharing and iSCSI storage concurrently.

Flexible Management: The NAS supports

multiple LUNs (Logical Unit Numbers) and iSCSI targets. The LUNs can be flexibly mapped to, unmapped from, and switched among different iSCSI targets.



Secure Deployment: Designed with CHAP

authentication and LUN masking, the advanced ACL (Access Control List) offers you the capability to block unauthorized access from the initiators.

Designed for Virtualized and Clustered Environments:

Comparing with the high cost Fibre Channel SAN, the Turbo NAS is an affordable system that can be deployed as a storage center for virtualized and clustered server environments, such as VMware and Microsoft Windows Failover Cluster.

SPC-3 Persistent Reservation Supported:

The built-in iSCSI service supports enterprise level features such as SPC-3 persistent reservation for clustering in VMware and Windows 2008. You can set up Microsoft Failover Cluster environment and use Cluster Shared Volume for Hyper-V. This allows you to execute virtual machine live migration between Hyper-V hosts.

Advanced MPIO and MC/S Supported:

With the support of MPIO (Multipath Input Output) and MC/S (Multiple Connections per Session) on the Turbo NAS, you can connect to the QNAP iSCSI targets using 2 or more network interfaces from your server with failover and load balancing. Furthermore, you can achieve better data transmission performance with MC/S setting.



Virtual Disk Expansion

The unique "Virtual Disk Drive (VDD)" adds flexibility to expand the capacity of the NAS. The Turbo NAS

can connect to other iSCSI targets on the network and turn them into virtual disks, which become multiple single volumes on the NAS. Up to 8 virtual disks can be stacked.



Advanced RAID Management with Hot-swap Design

The Turbo NAS offers advanced RAID 0, 1, 5, 6, 10, 5 + hot spare, 6 + hot spare, 10 + hot spare*, single, and JBOD disk configurations. It also supports hot-swap design that a failed drive can be replaced by hot swapping without turning off the server.

Online RAID Capacity Expansion:

The storage capacity of a RAID configuration 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.



Online RAID Level

You can upgrade the disk

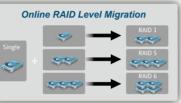
need to turn off the Turbo

NAS during the process.

configuration to higher RAID level with the data

retained. There is no

Migration:



The RAID configurations available vary depending on to the product models and the number of hard disk

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 Turbo NAS via SSH, Telnet, HTTP(S), FTP, samba,

The NAS supports remote login by SSH (secure shell) or Telnet connection.

SSL Security (HTTPS):

The Turbo NAS Supports HTTPS connection. 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 NAS offers secure data transfer with SSL/TLS (explicit) encryption. Passive FTP port range setup is also supported.

Encrypted Remote Replication by Rsync:

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

Share Folder Management:

You can select to hide or show the network share folders of the NAS on Windows network.

User Authority Management:

You can create user ID and password, and define the authority and quota for

Authority Control & Management

Windows Active Directory (AD):

The Windows AD feature enables you to retrieve the user accounts from the Windows AD server to the NAS to reduce the time and effort for account setup. Users can use the same set of login name and password to access the NAS.

Share Folder Aggregation:

You can connect to 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.



Complete Backup Solution

The Turbo NAS provides various backup solutions including the Windowsbased utility NetBak Replicator for data backup from PCs to the NAS and Apple Time Machine support for backup from Mac OS. The NAS data can also be backed up to cloud storage (Amazon S3), remote encrypted remote replication, server by, or external storage devices by one touch copy button.

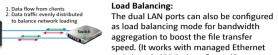


Benefits of Dual LAN Deployment

The Turbo NAS supports multiple bonding modes: Balance-rr (Round-Robin), Active Backup, Balance XOR, Broadcast, IEEE 802,3ad, Balancetlb (Adaptive Transmit Load Balancing) and Balance-alb (Adaptive Load Balancing).



The LAN ports can be configured as failover which allows the Turbo NAS server to sustain the failure of one network port to provide continuous services.



as load balancing mode for bandwidth

aggregation to boost the file transfer speed. (It works with managed Ethernet switch with 802.3ad configured.) Multi-IP Setting:

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

You can connect to the IP cameras via the

system with comprehensive monitoring,

recording, and playback features.

Turbo NAS and set up a video surveillance

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

The NAS offers cross-platform printer sharing over the network and remote printing over Internet (max. 3 USB printers). It supports IPP (Internet Printing Protocol), print job management and Bonjour printing for Mac OS X.

You can establish your own FTP server by the Turbo NAS and share the files conveniently with your colleagues or customers.

Encrypted Remote Replication:

can be backed up to or from other Turbo NAS or Rsync servers over the network.

The data on the Turbo NAS

File Server:

The Turbo NAS allows file sharing across Windows, Mac, Linux, and UNIX platforms. It also supports WebDAV for you to access the share folders via HTTP/HTTPS protocol remotely.

Surveillance Station:

You can host multiple websites on the Turbo NAS with the built-in web server and virtual host feature.

Backup Server: The Turbo NAS offers you the most

complete backup solution with Apple Time Machine support, remote replication to an Rsync server, Windows client backup software NetBak Replicator. third party backup software support, and



The Turbo NAS supports IPv6 (Internet Protocol Version 6) which makes your NAS a dual-stack IP host running IPv4 and IPv6 at the same time.

About QNAP

ONAP Systems. Inc. is a privately held company founded in 2004 and is dedicated to bringing world class NAS storage, professional NVR video surveillance, and network video players to consumer, small/medium business, and entry level enterprise market segments. QNAP leverages not only hardware design but also a growing core competency in software engineering that is precisely focused on bringing to market products that offer the highest available performance coupled with outstanding reliability, scalability, and ease of installation and use. QNAP is a multi-national company with headquarters in Taipei, Taiwan, and subsidiary offices in China and the United States.





































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Operating System

Embedded Linux

CIFS/SMB, AFP (3.2), NFS (v3), FTP, HTTP, HTTPS, Telnet, SSH, iSCSI, SNMP, SMTP.

- Microsoft Windows 2000 XP Vista (32/64-bit), Windows 7 (32/64-bit). Server 2003/2008
- Apple Mac OS X · Linux & UNIX

Internal: EXT3, EXT4

External: EXT3, EXT4, NTFS, FAT32, HFS+

- TCP/IP IPv4 & IPv6 Dual Stack Dual Gigabit Ethernet with Jumbo Frame
- Port Trunking/NIC Teaming (Modes: Balance-rr, Active Backup, Balance XOR, Broadcast, IEEE 802.3ad/Link Aggregation,
- Balance-tlb. and Balance-alb) Load Balancing, Failover, Multi-IP Settings DHCP Client, DHCP Server
- UPnP & Bonjour Discovery

AES 256-bit Volume-based Data Encryption *

- HTTPS Connection FTP with SSL/TLS (Explicit)
- Encrypted Remote Replication

 Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5+Hot Spare, 6+Hot Spare, 10+Hot Spare *

Network Access Protection with Auto-blocking

- Online RAID Level Migration
- · Bad Block Scan
- RAID Recovery
- ISO Mounting: Max 256

(via Web File Manager)

iSCSI Target

- Multi-LUNs per Target ■ Up to 256 LUNs
- LUN Mapping & LUN Masking ■ SPC-3 Persistent Reservation
- MPIO & MC/S

Virtual Disk Drives: Max 8

· Virtual Disk Drive (via iSCSI Initiator) Stack Chaining Master

Wake on LAN(Except: TS-410U/412U)

Server Virtualization & Clustering VMware vSphere (ESX/ESXi 4.x)

- Citrix XenServer
- Windows Server 2008 Hyper-V
- Windows Server 2008 Failover Clustering
- Power Management



CNAP

- (Rsync over SSH) Importable SSL Certificate
- Email and SMS Alerts

Disk Management

- Online RAID Capacity Expansion
- · HDD S.M.A.R.T.
- Bitmap

File Server Protocols: CIFS/SMB (Plus DFS Support),

- AFP, NFS, FTP/FTPS, HTTP/HTTPS (Web File Manager), WebDAV
 - Platforms: Windows, Mac OS, Linux/UNIX Web File Manager:

Scheduled Power on/off (Max 15 Settings)

· Automatic Power on after Power Recovery

Network UPS with SNMP Management

Supports Active Directory Authentication

■ Domain Users Login via CIFS/SMB,

AFP, FTP, and Web File Manager

Internal HDD Standby Mode

Access Right Management

Groups Management

User Quota Management

■ NTLMv2 Authentication

AJAX-based User Interface

HTTP/HTTPS Connections

· Email & SMS Alerts

Smart Fan Control

Resource Monitor

CIFS/ SMB and AFP

Syslog Client

Real-time Online User List

Restore to Factory Default

Firmware Live Update

Multilingual Support

Browser Support

Firefox 3 or Later

Google Chrome

· Safari 3 & 4 or Later

Dynamic DNS (DDNS)

· SNMP Traps (v2 & v3)

UPS Support with SNMP & USB

Network Recycle Bin for File Deletion via

Comprehensive Logs (Event & Connection)

System Settings Backup and Restore

LCD Quick Installation (Touch-N-Go) **

Chinese (Traditional & Simplified), Czech,

Danish, Dutch, English, Finnish, French,

German, Italian, Japanese, Korean,

Norwegian, Polish, Russian, Spanish,

Shares Management

Batch User Creation

Import User List

User Accounts Management

- File Management by Web Browser ■ Smart File & Folder Search
- FTP Server FTP over SSL/TLS (Explicit)
- Concurrent Connections: Max 256 Passive FTP Port Range Control
- FTP Bandwidth & Connection Control Supports FXP & Unicode

Backup to Cloud Storage (Amazon S3)

- Backup Server · Apple Time Machine Support with
- Backup Management QNAP NetBak Replicator Backup
- Software (Windows Client)

 USB One Touch Backup (Import/Export) ■ Encrypted Replication to/from QNAP

Backup to External Storage Devices

- · Block-level Remote Replication: ■ Work as Both Rsvnc Server & Client
- NAS Servers Third Party Backup Software Support: Acronis True Image, CA BrightStor, ARCserve Backup, EMC Retrospect.

Symantec Backup Exec, LaCie SilverKeeper Web Server

- HTTP/HTTPS Connections Built-in MySQL Server
- Web-based Management via phpMvAdmin (OPKG)

Media Server

- - · Automatic & Scheduled Thumbnail Generation for Easy Browsing
 - Exposure Time, Aperture, etc. Display Audio Details from ID3 Tag:
- · Access Authority Management
- Multimedia (Video & Audio) Streaming Cooliris 3D Wall Display
- MSN Live, Twitter, Plurk, and Blogger) Supported Formats:
- Photo: JPG/JPEG, GIF, PNG Audio: MP3
 - Video:
 - QPKG - Playback: FLV, MPEG-4 Video (H.264 + AAC)Transcode: AVI, M4V, MPG/MPEG.

RM/RMVB, WMV iTunes Server

(Windows & Mac)

UPnP Media Plaver

Supported Formats:

Xhox 360

PNG. BMP

Mobile App

 Audio and Video Sharing Internet Explorer 7 & 8 or Later · Smart Playlist for iTunes Client

- OMobile for iPhone ■ Compatible with iPhone, iPod
- Touch, and iPad ■ SABnzbd+ ■ iPhone OS 3.0 or Later Required OMobile for Android Phones

1.6, and 2.1 UPnP Media Server

■ Compatible with Android OS 1.5.

■ Digital Media Adapter/Player

- XDove (Mail Server) Built-in TwonkyMedia Server OpenLDAP
- Saueezebox Server ■ Game Consoles: PlayStation 3, PSP, and ■ IceStation
- Optware IPKG ■ Photo: JPG, JPE, JPEG, TIFF, TIF, GIF, Pvthon

** The RAID configurations available vary according to the product models and the number of hard disk drives installe

 Audio: MP3. MP4. M4A. M4B. 3GP. ■ iStat APL, AC3, M1V, M4V, MOV, AAC, ...and more AMR, AWB, WAV, PCM, LPCM, MP1, The data encryption functions may not available in accordance to the legislative restrictions of some countries.

*** The Touch-N-Go function is not available for 2-bay and 1U 4-bay models.

MP2. AIF. AIFF. AIFC. SND. WMA.

■ Video: WMV. ASF. VDR. AVI. XVID. DIVX. FLV. MPG. MPE. MTS. MT2S. M2T, MPEG, SPTS, M2P, M2V, MP2T MP2P, MPG2, DVR-MS, VOB

Download Station

- PC-less BitTorrent, FTP, HTTP Download (Max 500 Tasks)
- BitTorrent Download ■ TCP/UDP Tracker Protocol

■ Configurable File Saving Directory

■ Bulk Download with Wildcard Settings

■ Scheduled Download ■ Configurable Port Range

■ For Windows & Mac OS

■ Remote Download Tasks

over LAN or WAN

Printers: Max 3 (USB)

Management of Multiple NAS

■ Bandwidth Control

■ UPnP NAT Port Forwarding Virtual Hosts: Max 32 HTTP/FTP Download

Multimedia Station

- RapidShare Download · Photo Viewing, Audio & Video Playback ONAP Download Management · Image Slideshow and Rotation Software: QGet
- · Display Photo Details from EXIF: Date
- Album Cover, Title, Artist, Album, etc. Printer Server Network Printer Sharing (LAN or WAN)
- Surveillance Station · Web Publishing (Facebook, MySpace, Supports IP Cameras: Max 4
 - (Optional Purchase)
 - Network Surveillance: Remote Monitoring, Video Recording, and

Playback

VtigerCRM

eveOS

- Web Applications
- Joomla! ■ phpMvAdmin
- WordPress ■ AjaXplorer
- Magento ■ GPLI
- P2P Applications ■ MLDonkey (eMule)
- Server Applications Tomcat

■ Mono ■ Asterisk

- Real-time & Background Photo Transcoding Media Server
 - Tivo Streaming Server
 - Java Runtime Environment
- Clean folder structure for group sharing and IT management Special permissions to dedicated

within a public shared folder

shared folders

Ownership protection on root

user to perform data backup

Introducing Turbo NAS Firmware 3.4



Real-time Remote Replication (RTRR) provides real-time or scheduled data replication between the local NAS and a remote NAS, an FTP server, or an external drive, By RTRR, all newly added and modified files will be synchronized to a remote server or

an external storage device automatically. Scheduled backup is supported to provide

periodic data replication from the local NAS to a remote server, or vice versa.



ownload Station v2

ONAP NAS can serve as a continuous download machine without turning on vour PC. It not only supports BitTorrent download, but also HTTP (including RapidShare support) and FTP download.



Turbo NAS series. It can be installed on any Windows or Mac computers for users to manage BitTorrent, HTTP and FTP download tasks of Download Station on multiple Turbo NAS servers.



Advanced folder permissions allow you to configure access control to folders and subfolders of ONAP NAS. With this feature enabled, you can manage folder Wireless LAN Support

permissions from Microsoft Windows or the web-based management interface of QNAP NAS supports USB wireless dongles for flexible and secure the NAS without complicated procedure. deployment in wireless network environment. You can wirelessly connect the NAS to your network with an IEEE802.11 b/g/n compatible Private subfolders management
 Users group USB Wi-Fi adapter.

Enhanced Virtual Disk Your QNAP NAS can connect to multiple iSCSI targets on the network

MyCloudNAS

Host name registration

Auto router configuration

remote access to the NAS services.

host name registration

address or network.

Virtual LAN Support

Publish and share NAS services conveniently

so on) to be published on MvCloudNAS.com website.

More Features Available in Firmware 3.4

Most-based Permission Control

same VLAN ID can access the NAS.

DDNS registration.

MvCloudNAS service provides host name registration, auto port mapping of

UPnP router on your local network, and NAS services publishing on the Internet.

Register a unique name for your NAS in just a few clicks without complicated

Specify the ports to be opened on your UPnP router automatically by the NAS for

Select the web-based NAS services (Multimedia Station, Web File Manager, and

The host-based permission control of QNAP NAS prevents unauthorized hosts (computers servers) to access to the NAS folders via Microsoft

hosts (computers, servers...) to access to the NAS folders via Microsoft

Networking. You can specify the allowed access by host name, IP

Virtual LAN (VLAN) is an advanced network feature of the NAS.

You can integrate the NAS into an existing VLAN on a virtualization

infrastructure and configure the NAS as the storage system for other

VLAN devices. By enabling VLAN on the NAS, only the devices with the

A: Direct NAS URL:

B: MyCloudNAS portal website:

You can use MyCloudNAS wizard to finish the settings:

and turn them into virtual disks to expand the storage capacity of the NAS. The NAS now supports more file system formats (EXT3, EXT4, FAT32. NTFS and HFS+) for mounting and formatting virtual disks.

ISO File Archiving and Sharing

Turbo NAS supports mounting ISO images of CD and DVD discs as network shares for data archiving, storage, and sharing. You can:

- · Mount up to 256 ISO image files.
- Easily browse and share disc image files over LAN/WAN via multiple network protocols such as SMB, AFP, NFS, FTP, and WebDay.









with your friends and publish photos to popular social networking sites such as Facebook, Plurk, Twitter, Blogger, and so on.

OMobile for iPhone and Android Phones S.M.A.R.T. (Self-Monitoring Analysis and Reporting

QNAP offers a free multimedia application QMobile to allow users of iPhone and Android phones to carry all the multimedia files on the NAS in their pocket. You can stream videos, view and upload digital pictures, play music that are stored on the NAS over the network and share your music playlists with other iPhone or Android phones users.



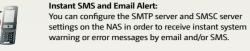
DOM Architecture and Fail-safe Dual OS

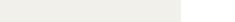
Two operating systems are built on the DOM of the Turbo NAS for system

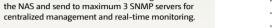
booting alternatively upon every system startup. When one fails, the other one will be used to boot up the NAS, and the failed OS is recoverable from the other healthy OS. (Except: TS-419U+/412U/410U)

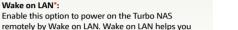
System Management Tools

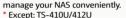
The Turbo NAS offers lots of features which help you manage the system











heduled Power on/off:



You can create schedules to automatically turn on. turn off, or restart the NAS. Up to 15 schedules can

S.M.A.R.T. & Advanced HDD Health Scanning (HHS):

SNMP (Simple Network Management Protocol):

You can collect the information, warning or error of



echnology) helps you monitor the hard disks status. Moreover, the Turbo NAS supports HHS (HDD Health Scan) for disk checking and bad blocks scanning.

Comprehensive Event Logs



iSCSI, FTP, AFP, HTTP, HTTPS, Telnet, and SSH, and networking services accessed by online users are all

Detailed logs of data access to the NAS via SAMBA,

You can maximize the





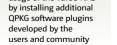
Superior Performance NAS with iSCSI for Business

- 2, 4, 5, 6, 8-bay, hot-swappable
- Built-in iSCSI initiator for stackable capacity expansion
- · All-in-one powerful business-class server features
- Dual Gigabit LAN: Failover, load balancing and multiple IP settings
- · Online RAID capacity expansion
- · Online RAID level migration
- AES 256-bit volume-based data encryption Complete backup solution including cloud-based and Apple Time Machine backup











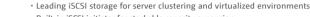












- Single disk, JBOD, RAID 0, 1, 5, 6, 10, 5+hot spare, 6+hot spare, 10+hot spare

