

# QNAP



# TS-x63U

## 4 / 8 / 12-Bay Turbo NAS

High-speed 10GbE connectivity and optimized encryption performance



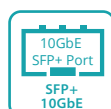
**Built-in 10GbE SFP+ Port**



### Qswitch

Cost saving with 1GbE to 10GbE network bridge functionality

- Designed for file management, sharing and backup of business data with snapshot support
- Create multiple virtual machines to run various operating systems on the NAS with the Virtualization Station
- Upgradable to dual-port 10GBASE-T or SFP+ by replacing the pre-installed SFP+ NIC
- Hardware-accelerated encryption engine for efficient cryptographic performance exceeding 800MB/s
- Storage expandable with a 12-bay UX-1200U-RP or an 8-bay UX-800U-RP expansion enclosure
- TS-x63U-RP supports hot-swappable redundant power supplies to ensure maximum system uptime

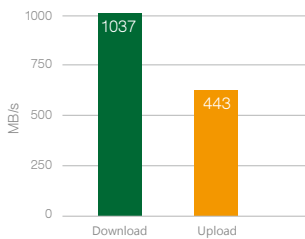


# Power / 10GbE / Scalability

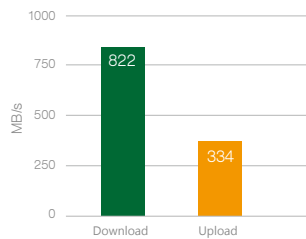
## • The power of 64-bit quad-core processor with AES-NI support

The TS-x63U is equipped with a fast 64-bit AMD® x86 quad-core 2.0 GHz processor with 4GB DDR3L-1600 RAM (upgradable to 16GB), SATA 6Gb/s, and quad Gigabit LAN ports (expandable to 6 x GbE ports or 4 x GbE + 2 x 10GbE ports) for lightning-fast multi-tasking performance with SSD cache support. The TS-x63U delivers up to 1037 MB/s read & write speeds with 1 x 10GbE port configuration. The TS-x63U's hardware-accelerated encryption engine provides unmatched encryption performance in its class, up to 822 MB/s with AES-256 bit full NAS volume encryption, boosting system performance & security while ensuring the safety of sensitive business data.

Throughput (1 x 10GbE)



AES 256-bit Encrypted Transfer (1 x 10GbE)



TS-1263U-RP : Windows Download / Upload (10GB File)

Tested in QNAP Labs. Figures may vary by environment.  
Test Environment

**NAS:**

**OS: QTS 4.2.0**

Volume type: RAID 6; 12 x Intel DC S3500 SSDSC2BB240G4 SSD

Network environment: direct connection between NAS and PC, QNAP LAN-10G1SR-U NIC

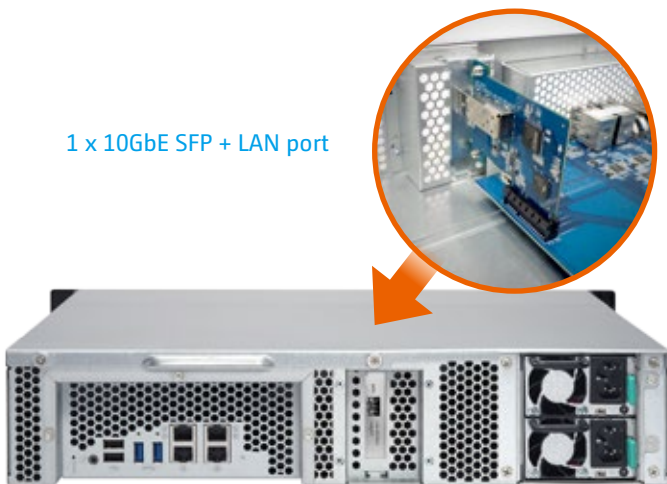
**Client PCs:**

Intel® Core™ i7-4770 3.40GHz CPU; DDR3 1600Hz 16GB; WD 1TB WD10EZEX; QNAP NIC; Windows® 7 Professional 64bit SP1

## • Built-in 10GbE connectivity

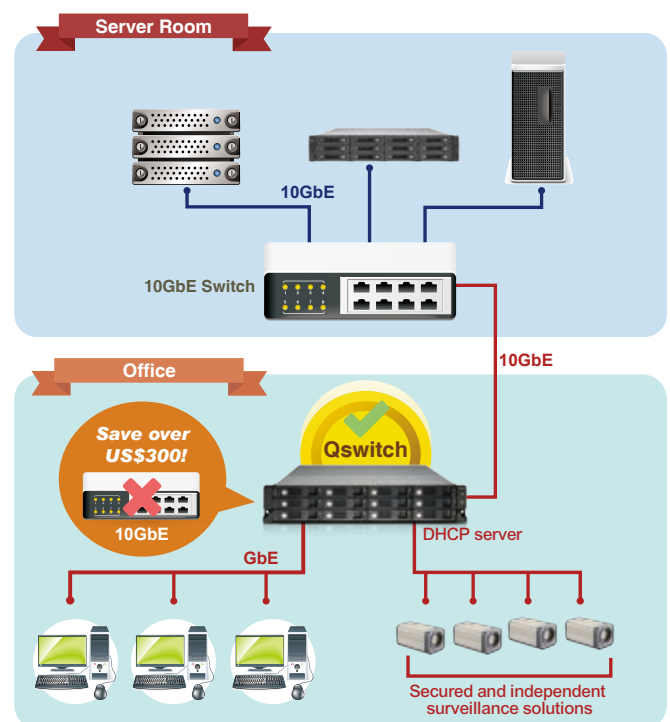
The TS-x63U series supports 10 Gigabit high-speed networks with the included single-port SFP+10GbE network adapter in addition to the default 4 x Gigabit Ethernet ports. The 10GbE-ready TS-x63U series delivers lightning-fast data throughput for businesses that demand higher bandwidth for virtualization and fast backup/restoration for an ever-growing amount of data. Users can also upgrade to a two-port 10GBASE-T or SFP+ NIC by replacing the pre-installed SFP+ NIC.

1 x 10GbE SFP + LAN port



## • Bridge between 1 & 10GbE to maximize network accessibility with no extra cost

With Qswitch\* the NAS supports bridging 1 Gigabit and 10 Gigabit networks naturally like a network switch. Users can connect 1GbE devices to the NAS to attain the 10GbE working environment for data transmission without buying an expensive 1/10Gbps Ethernet switch. The NAS assists in saving money on 10GbE network deployment and maximizes your flexibility and bandwidth.



\*Available with QTS 4.2.1

- **Capacity expansion or backup via QNAP 12-bay UX-1200U-RP or 8-bay UX-800U-RP**

The TS-x63U offers a high performance yet affordable storage solution to fulfill the needs of businesses for archiving rapidly-growing data & large files. The TS-x63U supports capacity expansion by connecting a QNAP expansion enclosure. 8 Bay UX-800U-RP or 12 Bay UX-1200U-RP with the QNAP scale-up solution, the raw storage capacity can be expanded on demand, making the TS-x63U an ideal file center for storage-intensive business applications such as video surveillance, data archiving, TV broadcast storage, and more.



Note: To expand storage space with an UX expansion unit, please create a separate static volume or storage pool on the UX expansion unit.

- **High reliability design ensuring business continuity**

The NAS is designed to provide 24/7 operations and services. The support for comprehensive RAID configurations and hot-swapping allow for replacing hard drives without service interruption. QNAP's advanced RAID recovery technology also helps if any healthy drives are mistakenly removed from a degraded RAID volume. The system can be recovered by reinserting the wrongly removed hard drives so the data can still be accessed. The NAS delivers high reliability and efficiency with a 4 X GbE and one 10GbE LAN ports design for multiple port-trunking modes including fail-over support. The TS-x63U-RP also features a hot-swappable redundant power supply to ensure maximum system uptime.



- **QTS 4.2 - Simple and efficient NAS OS**

Thanks to the intuitive user interface of QTS 4.2, your NAS experience is smarter, smoother and more spectacular. Its modern flat design streamlines loading times, and the intelligent desktop allows you to quickly find desired functions, create desktop shortcuts or group shortcuts, monitor important system information on a real-time basis, and multitask by opening multiple application windows at the same time, bringing greater operating efficiency.



- **Cross-platform file sharing & centralized data storage**

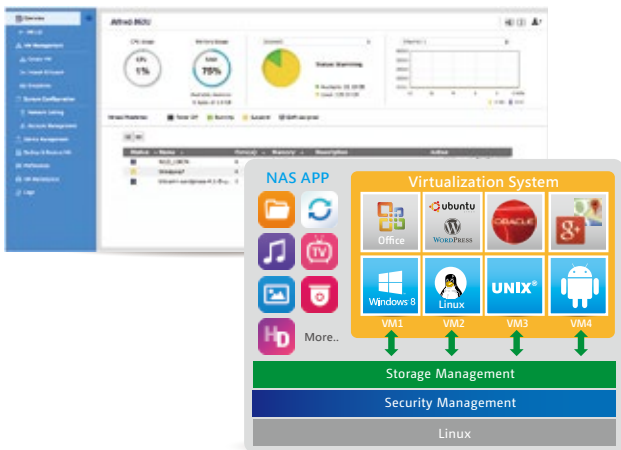
The TS-x63U supports SMB/CIFS, AFP, and NFS protocols for file sharing across Windows®, Mac, Linux/UNIX networks. Data, logs and ISO images of CDs and DVDs can be centrally stored on the TS-x63U and protected by an integrated antivirus solution. The Windows AD and LDAP services enable system administrators to configure user permissions by using an existing Windows AD server, LDAP server or built-in LDAP service. The TS-x63U supports SAMBA v4 and can act as a Windows domain controller to manage privilege settings.



# Virtualization / File Sharing / Security

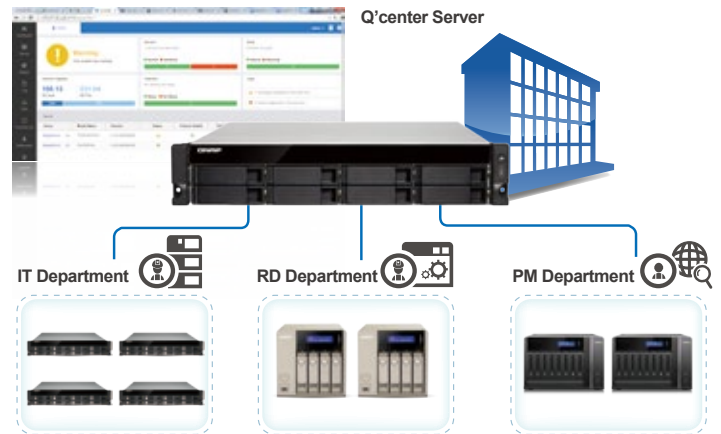
## • Run additional operating systems with Virtualization Station 2.0

The TS-x63U supports Virtualization Station 2.0, transforming it into a 2-in-a-box device that can function as an all-in-one NAS and a virtualization platform. Virtualization Station supports multiple operating systems which includes Windows®, Linux®/UNIX® and Android, virtual machine creation, VM import/ export, snapshot, and enables desktop operations on web browsers. By adopting a Software Defined Network approach, VMs can share the network interface with the NAS to maintain the best data transmission speed. You can also download VMs on demand from online VM marketplaces and import them to the NAS without any complex procedures.



## • Q'center for multi-NAS management

The QNAP Q'center CMS (Central Management System) offers a platform to centrally manage multiple NAS units. The visualized statistics and messages allow you to rapidly gain a clear picture on the system statuses of all QNAP NAS units, including disk usage, shared folder space usage, HDD IOPS, HDD delays and CPU usages and use them as the basis of your system utilization trend analysis. You can use Q'center to enable network services and other settings on a group of NAS units at once or a specific NAS unit.



## • Container Station – LXC and Docker® Containers

The TS-x63U is empowered by QNAP Container Station that integrates LXC and Docker® lightweight virtualization technologies, allowing you to operate multiple isolated Linux systems on the NAS and to download apps from the built-in Docker Hub™ registry. It supports container import/export and permission settings, and features an informative dashboard and flexible user interface for you to manage multiple containers.



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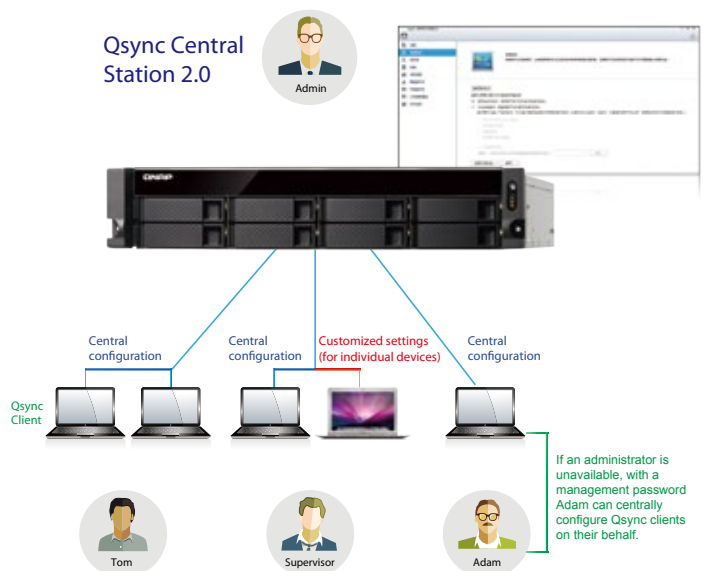
## • Comprehensive security options

In open network environments, business data may be exposed in a potential hack. The TS-x63U provides numerous security options, such as encrypted access, IP blocking, and more. IT administrators can also control the access rights of each user to different folders, preventing unauthorized access to important files. The NAS supports AES 256-bit volume or folder encryption, preventing sensitive business data from unauthorized access and breach even if the hard drives or the entire system were stolen.



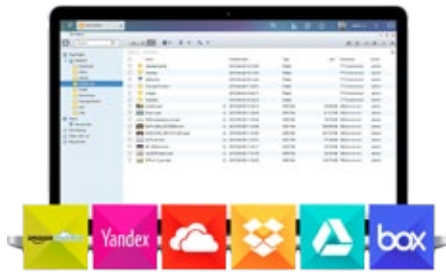
## • File synchronization across multiple devices

The Qsync utility turns your NAS into a high-capacity, safe data center for file synchronization. Any file uploaded to the NAS will be made available for all linked devices, such as computers, laptops or mobile devices. With central configuration mode, you can directly manage user privileges, set up Qsync client configurations, and apply customized or default settings effortlessly to all devices at once from one device. If your NAS is stolen or lost, you can remotely erase the Qsync folder to avoid data breaches. Qsync provides multiple ways of file synchronization and group file sharing, greatly enhancing the flexibility of collaboration.



- **File Station with cloud services integrated**

Now you can use File Station to centrally manage files not just on your NAS but also on other devices and popular cloud solutions with just a web browser. You can also view files with Office Online and Google Docs or directly open them with a Google Chrome office extension. The new media viewer provides a frameless mode for you to enjoy a better browsing experience. Easily share files via email, CloudLink, and a shared space where your friends can upload files after receiving a link from you.



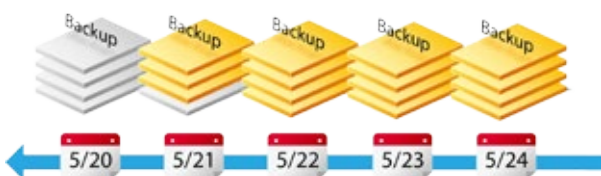
- **Qsirch – A smarter, faster way to search**

Quickly and easily find documents, photos, videos, and music with Qsirch, QNAP's new built-in NAS search application lets you find what you need by real-time, natural search. Simply type in as much as you know about what you are trying to find, including parts of the file name or even words/phrases in the document, and Qsirch will display a list of matches – complete with thumbnails – as you type. Qsirch is a huge productivity boost that greatly reduces the time spent looking for files on the NAS, allowing you to focus on other tasks.



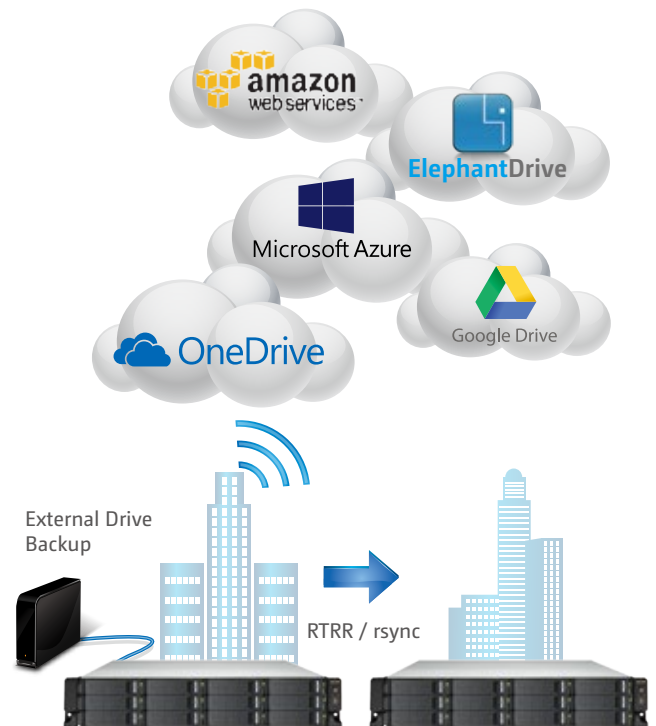
- **Comprehensive backup solutions with versioning support**

With backup versioning, multiple versions of files can be backed up to local or remote sites and rolled back to a specific point of time whenever needed. Furthermore, QNAP NetBak Replicator supports real-time and scheduled data backup on Windows®. Apple Time Machine is also supported to provide Mac OS X users with a solution to effortlessly back up data to the TS-x63U. A wide range of third-party backup software such as Acronis® True Image and Symantec® Backup Exec are also supported.



- **Disaster recovery solutions**

The TS-x63U offers various data recovery options. RTRR (Real-Time Remote Replication) supports real time or scheduled data backup to a remote Turbo NAS or FTP server and synchronizes files to a remote folder from a local folder with better backup efficiency and reduced backup time. The TS-x63U also supports the rsync protocol to back up data to another remote server on a scheduled basis. Data can also be backed up to and restored from a range of cloud storage services, including Amazon® S3/ Glacier, OneDrive, Microsoft® Azure, ElephantDrive®, Dropbox, Google Drive and Google Cloud Storage.



- **Powerful QNAP flexible volume**

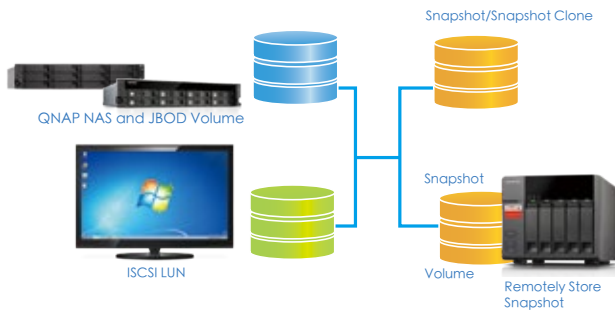
QNAP's flexible volume provides a more secure and flexible way to store NAS data. This next-generation volume offers powerful features such as storage pooling with multiple RAID group protection, thin provisioned volumes with space reclaim, block-level iSCSI LUN, and online capacity expansion. The QTS Storage Manager neatly presents tools and options for managing system storage which greatly simplifies the process of NAS capacity expansion and QNAP RAID expansion enclosure management.



# TS-x63U Turbo NAS

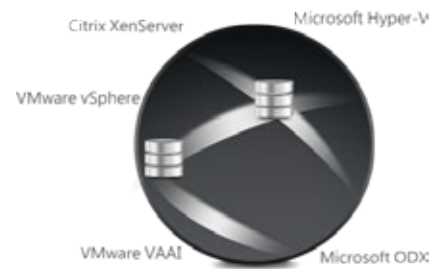
## • Volume & LUN snapshot simplifies restoration

QTS Storage Manager adds an easy-to-use web-based snapshot tool for you to easily back up and restore data on the NAS back to any point of time to prevent loss of important data. You can take snapshots for both volumes and LUN, efficiently replicate volume/LUN snapshots to remote servers by copying only the changes made, and quickly clone a volume /LUN snapshot as a local volume without interrupting the current system operation. You can even set up the system to automatically take a snapshot of the volume before backup via RTRR/rsync, even when the file is opened.



## • Storage for virtualization applications

The TS-x63U supports VMware® and Citrix®, and is compatible with Microsoft® Hyper-V™ and Windows Server 2012, benefiting flexible deployment and management in the virtualization environments. The TS-x63U supports VMware VAAI and Microsoft ODX to increase performance by offloading server loading for ESXi server and Hyper-V respectively, and supports QNAP vSphere Client plug-in and QNAP SMI-S provider for enhanced operational efficiency and management in virtualization applications.














## • Cloud-ready 24/7 surveillance solution

Surveillance Station is a professional network surveillance Video Management System (VMS) that offers a user-friendly management interface, compatibility with over 3,000 IP camera models, and expandable IP camera channel licenses. It supports real-time monitoring, video & audio recording and playback with a wide range of customizable settings. You can also install the Vmobile mobile app on your iOS® or Android™ devices to manage the monitored channels anytime and anywhere to safeguard your office environment, or install the Vcam mobile app to turn your device into a network camera to instantly record to your TS-x63U. The TS-x63U offers 4 free IP camera channels and you can expand up to 40 channels by purchasing additional licenses.



Camera Channel Licenses:  
Free: 4 / Max. : 40

## Accessories

Category	Order P/N	Product Description
Expansion Unit	 UX-1200U-RP	QNAP 12-bay expansion unit Dimensions: 89 x 482 x 534 mm / 3.50 x 18.98 x 21.02 inch (HxWxD); Weight: 12.86 kg / 28.35 lbs
	 UX-800U-RP	QNAP 8-bay expansion unit Dimensions: 89 x 482 x 534 mm / 3.50 x 18.98 x 21.02 inch (HxWxD); Weight: 12.44 kg / 27.43 lbs
Rail Kit	 RAIL-B02	Rail kit for TS-463U / TS-463U-RP / TS-863U / TS-863U-RP / TS-1263U / TS-1263U-RP
LAN Card	 LAN-1G2T-U	Dual-port 1 GbE network adapter for TS-863U / TS-863U-RP / TS-1263U / TS-1263U-RP
	 LAN-1G2T-D	Dual-port 1 GbE network adapter for TS-463U / TS-463U-RP
	 LAN-10G2T-U	Dual-port 10GBASE-T network adapter for TS-863U / TS-863U-RP / TS-1263U / TS-1263U-RP
	 LAN-10G2T-D	Dual-port 10GBASE-T network adapter for TS-463U / TS-463U-RP
	 LAN-10G1T-U	Single-port 10GBASE-T network adapter for TS-863U / TS-863U-RP / TS-1263U / TS-1263U-RP
	 LAN-10G1T-D	Single-port 10GBASE-T network adapter for TS-463U / TS-463U-RP
	 LAN-10G1SR-U	Single-port SFP+ network adapter for TS-863U / TS-863U-RP / TS-1263U / TS-1263U-RP, direct attach copper cable
	 LAN-10G1SR-D	Single-port SFP+ network adapter for TS-463U / TS-463U-RP, direct attach copper cable
	RAM-4GDR3L-SO-1600	4GB DDR3L RAM, 1600 MHz, SO-DIMM
	RAM-8GDR3L-SO-1600	8GB DDR3L RAM, 1600 MHz, SO-DIMM
Cable	CAB-DAC15M-SFPP	SFP+ 10GbE twinaxial direct attach cable, 1.5m

# Hardware Specifications



	TS-463U		TS-863U		TS-1263U	
<b>Order P/N</b>	TS-463U-4G	TS-463U-RP-4G	TS-863U-4G	TS-863U-RP-4G	TS-1263U-4G	TS-1263U-RP-4G
<b>CPU</b>	64-Bit Quad-Core AMD® G-Series 2.0GHz					
<b>Memory</b>	4GB DDR3L (4GB x 1)					
	Total memory slots: 2 SODIMM; Memory expandable up to 16GB DDR3L (8GB x 2)					
<b>Flash</b>	512MB (DOM)					
<b>Max. HDDs/SSDs</b>	4		8		12	
<b>HDDs/SSDs Type</b>	2.5" or 3.5" SATA 6Gb/s, 3Gb/s; hot-swappable					
<b>Expansion Unit Support</b>	Max. 1 expansion unit (12-bay UX-1200U-RP or 8-bay UX-800U-RP)					
<b>LAN Ports</b>	1 x 10GbE SFP+ & 4 x GbE ports (Expandable up to 6 x GbE ports or 4 x GbE & 2 x 10GbE ports)					
<b>USB Ports</b>	USB3.0: 2, USB2.0: 3		USB3.0: 2, USB2.0: 2		USB3.0: 2, USB2.0: 3	
<b>PCIe Slot</b>	1 x PCIe 2.0 x 4 slot, pre-installed 1-port SFP+ 10GbE NIC					
<b>LED Indicators</b>	Status, LAN, USB, HDD1-4		Power, Status, LAN, USB, HDD1-8		Power, Status, LAN, USB, HDD1-12	
<b>Buttons</b>	Power, Reset, USB Auto Copy		Power, Reset		Power, Reset	
<b>Form Factor</b>	1U Rackmount		2U Rackmount		2U Rackmount	
<b>Dimensions (HxWxD)</b>	1.73 x 17.28 x 19.65 inch		89 x 482 x 534 mm / 3.50 x 18.97 x 21.02 inch			
<b>Weight (Net/Gross)</b>	7.63 / 11.60 kg		11.02 / 19.26 kg		16.14 / 19.41kg	
	16.82 / 25.57 lb		24.29 / 42.46 lb		35.58 / 41.84 lb	
<b>Temperature and Humidity</b>	0-40°C, 5~95% RH non-condensing, wet bulb: 27°C					
<b>Power Supply Specification</b>	Input: 100-240V AC, 50/60Hz; Output: 250W					
	250W	2 x 250W	250W	2 x 250W	250W	2 x 250W
<b>File Sharing</b>						
<b>Max. Users</b>	4096		4096		4096	
<b>Max. User Groups</b>	512		512		512	
<b>Max. Shared Folders</b>	512		512		512	
<b>Max. Concurrent Connections (CIFS)</b>	800		800		800	
<b>Performance (MB/s) - 10GbE x 1</b>						
<b>Windows Download / Upload</b>	1037 / 443 (MB/s)		1090 / 448 (MB/s)		1059 / 405 (MB/s)	
<b>AES 256-bit Encrypted Windows</b>	784 / 299 (MB/s)		813 / 330 (MB/s)		822 / 334 (MB/s)	

\* Design and specifications are subject to change without notice.

# Software Specifications

## Operating System

- Operating System
- QTS 4.2 (embedded Linux)

## Supported Client OS

- Windows 7 (32/64-bit), Windows 8 (32/64-bit), Windows Server 2003/2008 R2/2012/2012R2
- Apple Mac OS X
- Linux & UNIX

## Supported Browsers

- Microsoft Internet Explorer 10+
- Mozilla Firefox 8+
- Apple Safari 4+
- Google Chrome

## Multilingual Support

- Chinese (Traditional & Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, Turkish

## File System

- Internal Hard Drive: EXT4
- External Hard Drive: EXT3, EXT4, NTFS, FAT32, HFS+

## Networking

- TCP/IP (IPv4 & IPv6: Dual Stack)\*
  - Quad Gigabit NICs with jumbo frame (failover, multi-IP settings, port trunking/NIC teaming)
  - Service binding based on network interfaces
  - Proxy client & Squid Proxy server
  - DHCP client, DHCP server
  - Protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and SMSC
  - UPnP & Bonjour Discovery
  - USB Wi-Fi Adapter Support
- \* Not all services are supported.

## Security

- Network access protection with auto-blocking: SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP
  - CIFS host access control for shared folders
  - FIPS 140-2 validated AES 256-bit volume-based and shared folder data encryption\*
  - AES 256-bit external drive encryption\*
  - Importable SSL certificates
  - Instant alert via E-mail, SMS, beep, and push service
  - 2-step verification
- \* Data encryption functions may be unavailable in accordance with the legislative restrictions of some countries.

## Storage Management

- QNAP flexible Volume/LUN with thin provisioning and space reclaim
- RAID 0, 1, 5, 6, 10, + hot spare\*
- Supports storage pools
- Supports volume & LUN snapshots, with Snapshot agent for Windows VSS and VMware
- Online volume expansion
- Online storage pool expansion
- Online RAID capacity expansion and online RAID level migration
- SMART data migration
- Storage expansion via a QNAP UX-1200U-RP/UX-800U-RP expansion unit (max. 1)
- JBOD enclosure roaming
- SSD read-only/read-write cache
- Bad block scan, recovery, and hard drive S.M.A.R.T.

- RAID recovery
- Bitmap support
- \* This feature may vary by model.

## Power Management

- Wake on LAN
- Internal hard drive standby mode
- Scheduled power on/off
- Automatic power on after power recovery
- USB and network UPS support with SNMP management

## Access Right Management

- Local user access control for CIFS, AFP, FTP, and WebDAV
- Application access control for Photo Station, Music Station, Video Station, and File Station
- Subfolder permissions support for CIFS/SMB, AFP, FTP, and File Station

## Domain Authentication Integration

- Microsoft Active Directory (AD) & Domain Controller support
- LDAP server, LDAP client
- Domain users login via CIFS/SMB, AFP, FTP, and File Station

## myQNAPcloud Service

- Private cloud storage and sharing
- Free host name registration (DDNS)
- Supports myQNAPcloud SSL certificates (paid service)
- Auto router configuration (via UPnP)
- Web-based file manager with HTTPS 2048-bit encryption
- CloudLink for remote access without any complicated router setup
- myQNAPcloud connect for easy VPN connection (Windows VPN utility)

## Qsync

- Syncs files across multiple devices with SSL support
- Use team folders as a file center for greater team collaboration (maximum sync tasks:32)
- Policy settings for conflicting files and file type filter support
- Version control: up to 64 versions.
- Incremental synchronization for HDD space saving
- Supports central configuration mode
- Supports remote erase / restore
- Supports Windows & Mac OS

## Web Administration

- Smart toolbar and dashboard for neat system status display
- Dynamic DNS (DDNS)
- SNMP (v2 & v3)
- Network recycle bin for file deletion via CIFS/SMB, AFP, and File Station
- Comprehensive logs (events & connection)
- Syslog client/server
- Mobile app: Qmanager for remote system monitoring & management

## File Server

- File sharing across Windows, Mac, and Linux/UNIX
- Windows ACL
- Advanced folder permissions for CIFS/SMB, AFP, FTP
- Shared folder aggregation (CIFS/SMB)

## FTP Server

- FTP over SSL/TLS (Explicit)

- FXP support

## File Station

- Supports mounting a Cloud Drive (such as Google Drive, Dropbox, Microsoft OneDrive, Amazon Cloud Drive, Yandex Disk and Box)
- Supports mounting remote shared folders through FTP, WebDAV or Microsoft networking (SMB/CIFS)
- Supports opening documents via Office Online, Google Docs or Chrome Extension (Edit Office files in Google Docs, Sheets, and Slides)
- Supports ISO Mounting (Up to 256 ISO Files)
- Supports thumbnail display of multimedia files
- Supports sharing download links and upload links
- Drag-n-drop Files via Chrome and Firefox Browsers
- Photo, music, and video preview and playback
- File Compression (ZIP or 7z)
- Mobile App: Qfile for file browsing and management

## Backup Station

- Remote replication server (over rsync)
- Real-time remote replication (RTRR) to another QNAP NAS or FTP server
- Works as both RTRR server & client with bandwidth control
- Real-time & scheduled backup
- Backup versioning for RTRR
- Snapshot support for RTRR/Rsync
- Encryption, compression, file filter, and transfer rate limitation
- Encrypted replication between QNAP NAS servers
- Desktop backup with QNAP NetBak Replicator for Windows
- Apple Time Machine backup support
- Data backup to multiple external storage devices
- Third party backup software support: Veeam backup & replication, Acronis True Image, Arcserve backup, emc retrospect, Symantec Backup Exec, etc.

## Print Server

- Max number of printers: 3
- Supports Internet Printing Protocol
- Print job display and management
- IP-based and domain name-based privilege control

## iTunes Server

- Audio and video sharing for Windows & Mac iTunes

## Cloud Backup Station

- Amazon S3 / Amazon Glacier, WebDAV-based cloud storage, Microsoft Azure, OpenStack, Dropbox

## AirPlay & Chromecast

- Streams videos, photos and music from NAS to Apple TV or Chromecast

## Virtualization Station

- Supports Virtual Machine (VM) creation to run operating systems such as Windows, Linux, Unix and Android
- Supports VM import and export, cloning, snapshots, backup and restore
- VM console can be displayed via HDMI output - QVM
- HTML5-based shared remote console

## Storage Plug & Connect

- Creating and mapping shared folders by QNAP Windows Qfinder
- Creation of and connection to iSCSI target/LUN

## iSCSI (IP SAN)

- iSCSI target with multi-LUNs per target (Up to 256 targets/LUNs combined)
- Supports LUN mapping & masking
- Online LUN capacity expansion
- iSCSI LUN backup, one-time snapshot, and restoration
- iSCSI connection and management by QNAP Windows Qfinder
- Virtual disk drive (via iSCSI initiator)
- Max No. of virtual disk drives: 8

## Surveillance Station

- Supports over 3,000 IP cameras
- Includes 4 free camera licenses, up to 40 camera channels via additional license purchase
- Intelligent video analytics (IVA) for advanced video searching
- Surveillance client for Mac
- Mobile surveillance app: Vmobile (iOS and Android)
- Mobile recording app: Vcam (iOS and Android)

## VPN Server

- Secure remote access: PPTP/L2TP/IPsec & OpenVPN VPN services
- Max number of clients combined: 30

## VPN Client

- Supported VPN protocols: PPTP & OpenVPN services
- PPTP Authentication: PAP, CHAP, MS-CHAP, MS-CHAPv2
- PPTP Encryption: None, AES 40/128 bit, AES 256 bit
- OpenVPN Encryption: None, AES 40/128 bit, AES 256 bit
- OpenVPN port control & link compression

## DLNA Server

- Supports DLNA/UPnP TVs and players such as PlayStation 4 and Xbox One
- Support CUE indexing file for APE, FLAC audio format.

\*DRM-protected content is not supported.

## Q'center (NAS CMS)

- Multiple NAS monitoring
- Utilization history reports & visual display reports
- Unified configuration management
- Monitor NAS behind NAT router with Q'center Assistant
- Virtual appliances supported for Hyper-V and VMware

## App Center

- Over 100 official and community software add-ons (Photo Station, Music Station, Video Station, Download Station, Notes Station, Signage Station, McAfee, WordPress, Gmail Backup, and more.)

Designs and specifications are subject to change without notice.

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