

## TS-431P

## Cost-effective, suitable for home office 4 Drive NAS



Product	specifications Information
application tool	commonly used to download

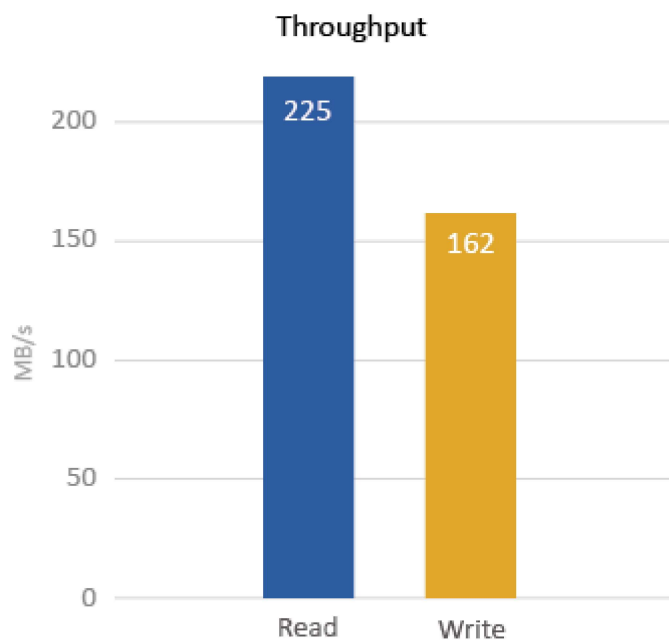
TS-431P is a powerful and easy-to-network storage devices to help you complete data backup, file synchronization, remote access and other tasks, and enjoy the wonderful multimedia entertainment. You

can use Notes Station easily create a personal cloud notebook and share your notes to friends and family; use QmailAgent centralized management of multiple e-mail accounts, efficiently receive, manage and backup e-mail; or use Qcontactz import and centralized management of contacts data, with private cloud guardian million people contacts book, and all this without extra charge. Dual core TS-431P has three USB 3.0 ports and dual network ports, providing superior multitasking performance boost productivity and enrich your digital life, but also to establish a secure private cloud storage solutions to facilitate access over the data.

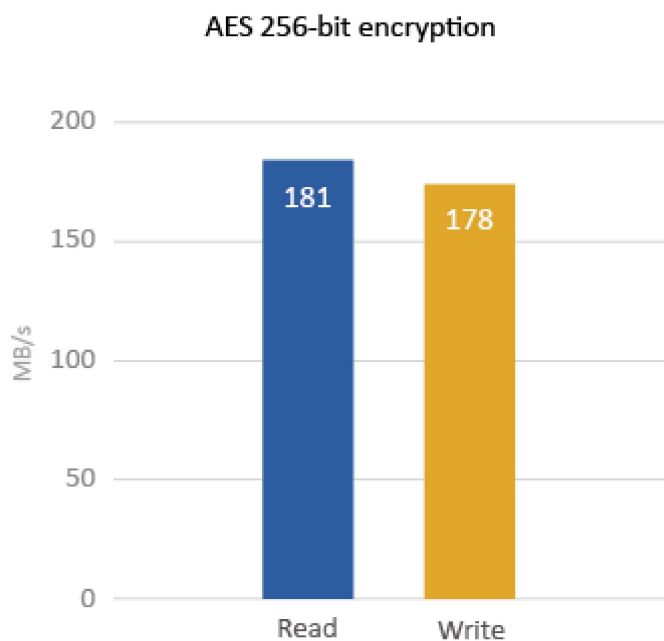
- Show excellent performance, centralized management, backup and file sharing
- Important data is protected through encryption machine and hardware acceleration
- Support QmailAgent mail distributor and Qcontactz private cloud Contacts Butler
- VJBOD lets you use the TS-431P other QNAP NAS to expand the storage space, shared economic
- Easy file synchronization NAS, computers, tablets and mobile devices among
- Through DLNA®, AirPlay® and Chromecast™ streaming video on the TV to enjoy photos, high-definition movies or home videos
- To create a security monitoring center, all-weather guard your home and office environment

# High-performance dual-core processors

TS-431P is equipped ARM® Cortex®-A15 core architecture Annapurna Labs Alpine AL-212 dual-core 1.7 GHz processor, and 1GB DDR3 memory up to 225 MB / s read speed and 162 MB / s write speed, is designed for NAS-efficient homes, small offices and individual workers design. TS-431P provide comprehensive data encryption and decryption mechanism, providing more than 181 MB / s data transfer rate through the AES 256-bit encryption machine, while protecting NAS important information, remain high efficiency and safety of the system. TS-431P as a multimedia center, a high transmission rate can also be installed in the USB interface 802.11ac and 2.4GHz / 5GHz 802.11n dual-band Wi-Fi card, so that a large number of files faster or video file transfer bandwidth consumption.



10GB file Windows Upload/Download, 2 LAN



10GB file Windows Upload/Download, 2 LAN

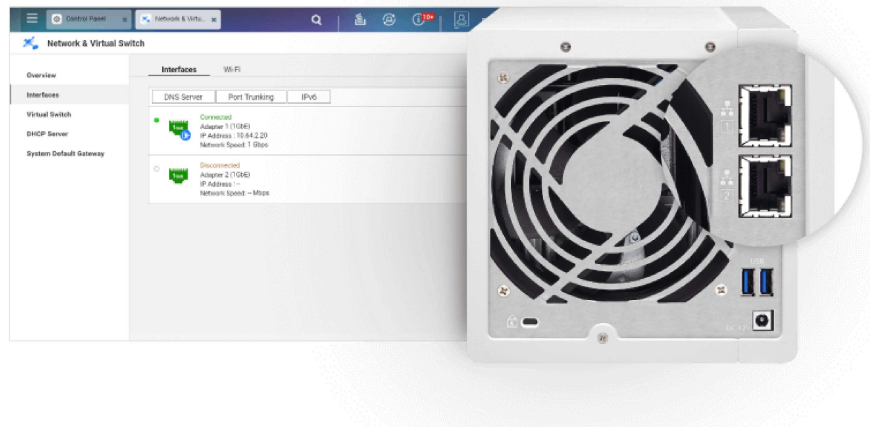
Testing in QNAP lab. Data due to the physical environment vary. Test environment: the NAS: the OS: QTS 4.2.2 the Volume of the type: the RAID 5; 4 X ST1000NM0033-9ZM173 the Seagate 1TB HDDs: the NAS and the PCs

are Connected Client the PCs: the Intel (R & It) Core ((TM)) i7-4790 the CPU  
the CPU @ 3.60GHz ; 16GB DDR3 1600Hz; the Seagate Barracuda 500GB  
ST500DM002; the Intel Gigabit CT (the MTU 1500); the Microsoft the  
Windows 10 64bit IOMeter the Configuration:... the PCs Via Multiple File  
Continuously Switch 32GB Transferring to the NAS for 3 minutes Block size:  
64KB for SMB2.0

## Dual network ports, foolproof

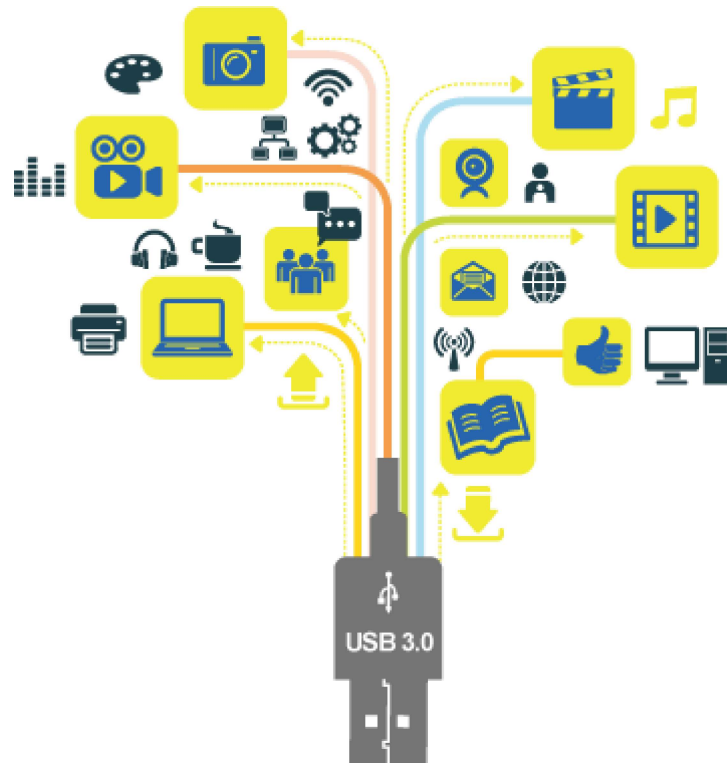
TS-431P in Port Trunking function, in addition to the integration of bandwidth, speed network transmission speed, but also provide network fault tolerance and dual network IP settings to ensure that the system continues to provide services. TS-431P supports multiple network modes: Balance-rr (Round-Robin), ActiveBackup, Balance XOR, Broadcast, IEEE 802.3ad (Link Aggregation), Balancetlb (Adaptive Transmit Load Balancing) and Balance-alb (Adaptive Load Balancing).

Know more: [more network mode](#)



## Multiple USB 3.0 ports, multi-application productivity gains

TS-431P offers three ultra high-speed USB 3.0 port, allowing you the flexibility to arrange a variety of external devices to provide you with diverse applications. You can back up files to a USB hard drive, USB card reader connected to read data on the SD card, up to three printers shared through a network, or USB connection type uninterruptible power supply (UPS) to ensure continued power supply.



## QTS operating system - simple, easy, efficient

QTS intuitive user interface that allows your NAS experience more wisdom, the essence of smooth and excellent. QTS using simple flat design aesthetics, reduce your waiting time to open the file; its intelligent desktop provides the main menu to quickly find functional items; graphical dashboards facilitate real-time monitoring of system resources; draggable and can be a small group of icon shortcuts for quick access; rapid Toolbar, multi-window, multi-table and multi-operation capability, significantly enhancing efficiency. QTS breaking down barriers across devices,

platforms and between regions, gives you unlimited free cloud experience.

Read more: [QTS](#)



## Private cloud build personal note

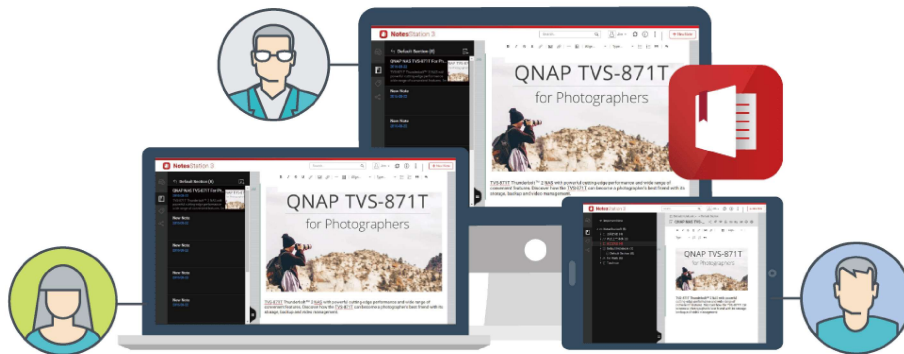
Upgraded Notes Station 3 (Red Notes 3) interface allows the operator to optimize the use of more smoothly, more complete new collaboration features, TS-431P allows users to edit documents together, enhance collaboration efficiency; every file editing records will be properly retention, team members can effectively track every modification summary file version management more convenient. Notes Station powerful graphic editor that lets filing better; built-in sharing feature allows you to instantly share notes beautifully done. Notes Station more comprehensively enhance data protection features: You can set a password for the notes, to prevent unauthorized users access to



documents; to establish a snapshot version, save different time editing notes version; use Notes Export / Import and full site backup function to upload files to the local / distal QNAP NAS as a backup; backup system also TS-431P in the notes on a regular basis, double protection of your important data notes.

NOTE: Notes Station 3 upcoming QTS 4.3 provides

Know more: [the Notes Station](#) , [the QNOTES](#) , [QSnap](#)



## QmailAgent - NAS mail distributor

Richangshenghuo we communicate frequently rely on e-mail, Email management and security is also very important. With QmailAgent, sign your mail box by a single platform, and quickly switch to a different e-mail account to view the message content is very convenient. In addition to writing, browse, and manage e-mail, you can also entrained in the mail directly stored in the TS-431P files, documents and photos. Another iOS® and Android™ mobile app - QmailClient, allowing you to use TS-431P anywhere

your phone or tablet device connected quickly manage multiple email accounts, send and receive e-mail. QmailAgent can be used with more powerful mail search Qsirch integrate and use, quick search into all .eml format messages stored in the TS-431P, so that a large search and mail management a breeze.

NOTE: QmailAgent upcoming QTS 4.3 provides

Read more: [QmailAgent](#)

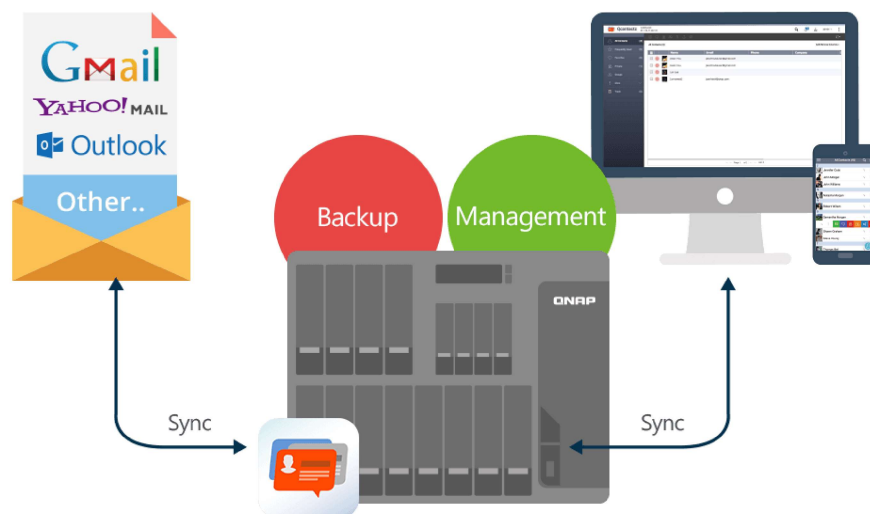


## Qcontactz - of 10 million to easily manage contact

# information

Feel that the huge contact information scattered in different Email or computer devices and easy to manage it? QNAP launched a new Qcontactz, private cloud is your best contacts housekeeper, with a large-capacity TS-431P, to help you focus on the storage and security management all contact information for friends, family and work partners. Qcontactz support a variety of ways to import contact lists can be synchronized with the Google account contacts manually add contacts, CSV and vCARD 3.0 File Import / Export is not a problem. More useful features include: automatic identification common contacts, secret contacts with the group settings, and search for wisdom and so on. Qcontactz also provides a snapshot backup hard drive, allows you to reply legacy contact list on demand. You can also use Qcontactz action APP remote access or upload all contact information, asset manager pulse easily.

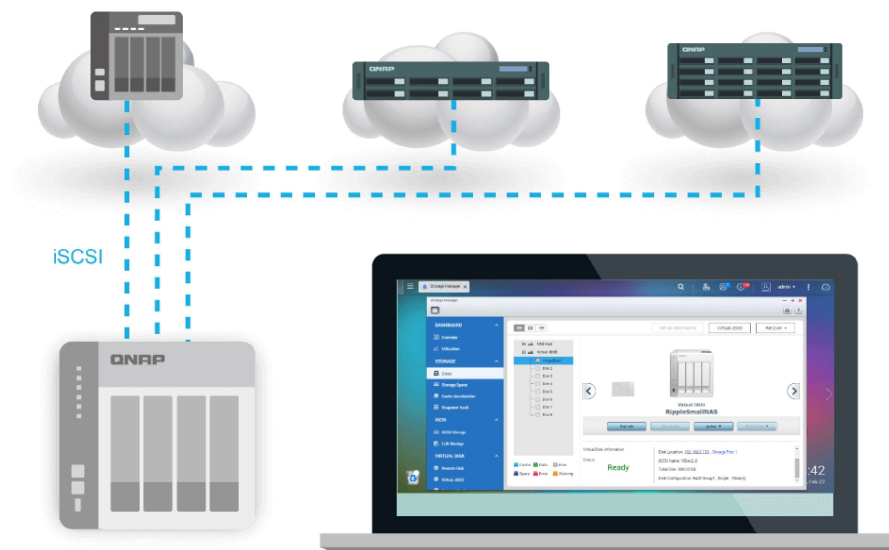
NOTE: Qcontactz upcoming QTS 4.3 provides



# VJBOD: NAS with NAS to expand the space, creating a shared economic NAS

Extended NAS storage devices except hardware expansion, now you have more than one method. QNAP VJBOD (Virtual JBOD) storage expansion cabinet to provide virtual network network type JBOD, allowing you to expand use NAS NAS! Use VJBOD, you can cost way TS-431P expansion space for other NAS virtual hard disk, and on top of virtual storage pools and direct disk area, this virtual storage space as the use of the machine-like functions.

Read more: [VJBOD virtual network expansion cabinet](#)



# Comprehensive data backup, files safe

TS-431P can be used as the center of many centralized backup files. Located TS-431P front panel USB port supports one-touch backup, a single click will be able to quickly back up data to an external hard drive TS-431P, or will back up data from the TS-431P to an external hard drive. You can also use QNAP NetBak Replicator gadget Windows® computer data (including Outlook® Email Archive) backup to TS-431P, or through Time Machine® support to complete the backup task Mac® device. TS-431P is also compatible with the well-known third-party backup software, such as: Acronis® True Image™, Symantec Backup Exec™ and other services to help complete data backup and restore.

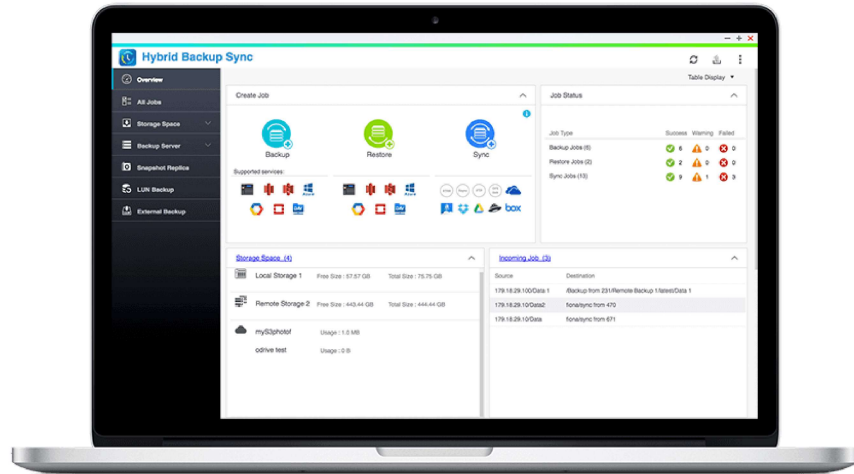
Read more: [data backup and disaster recovery](#) , [remote backup](#)



# Multi-disaster rehabilitation programs, have nothing to fear

Hybrid Backup Sync (mixed type Backup and Sync Center) integrated data backup, recovery and synchronization three functions (via RTRR, rsync, FTP, CIFS / SMB protocol) in a single app to help you easily data in TS-431P backup or sync to another QNAP NAS, remote server or cloud backup space, proper planning data backup and disaster recovery plans. Supported cloud storage service includes: Amazon® Glacier, Azure™ Storage, Google Cloud Storage™, Google Drive™, Microsoft® OneDrive®, Dropbox®, Amazon® Drive, Yandex® Disk, Box®, and Amazon® S3 / OpenStack Swift / WebDAV compatible cloud services. Hybrid Backup Sync support multiple versions of the backup, flexible set Task Scheduler, compressed backup files, and much more.

Know more: [the Hybrid Backup Sync](#) , [RTRR](#) , [the rsync](#)



## Permissions layers of management, data encryption from time to time

In an open network environment in the face of the information may be exposed to insecurity, TS-431P offers a variety of security options, such as: anti-virus detection, encrypted access, IP filtering, IP blocking mechanism, two-step verification managers may be set for each user profile folder access, prevent all unauthorized access to your valuable information. TS-431P supports AES 256 Wei yuan more disks and shared folder encryption security mechanisms to prevent the theft of confidential information due to hard drive or loss arising from the outflow of risk.

Read more: [virus detection](#) , [encryption access](#) , [the IP blocking mechanism](#) , [hard disk encryption](#)

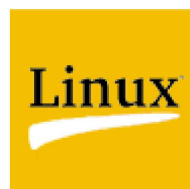
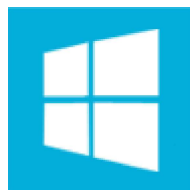


## Cross-platform file sharing, centralized data management

TS-431P supports SMB / CIFS, NFS, and AFP and other agreements can be among Windows®, Mac® and Linux® / UNIX® operating systems, such as different file sharing and centralized storage and management of all kinds of information, system logs, and even CD / DVD ISO image file.



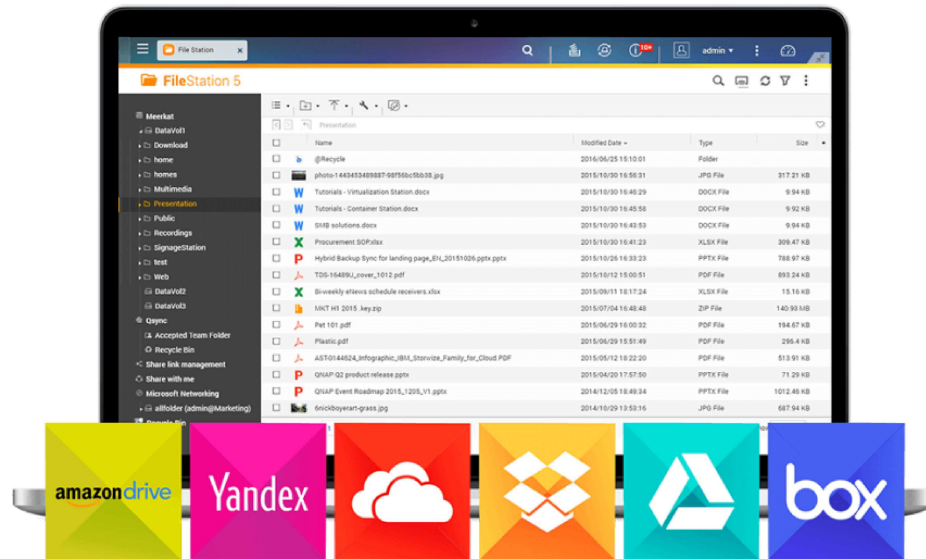
Read more: [Cross-platform file access](#) , [the ISO Share](#) , [the Syslog service](#)



## Multiple File Station Integration Cloud Services

File Station (Explorer) lets you use a web browser to upload anytime, download and manage files on TS-431P, supports file compression, create a folder and intelligent search capabilities, so you can easily work through the URL and download links partner or friends to share files. File Sharing process also uses SSL mode and enter the password to protect them. Even better, you can browse, move TS-431P in the data to the public cloud services, such as: Google Drive™, Dropbox®, Microsoft® OneDrive, Box®, Yandex® Disk and Amazon® Drive, and through Google Chrome™ extensions or Google Docs™ and Office Online online instantly browse the files.

Read more: [File Station](#)

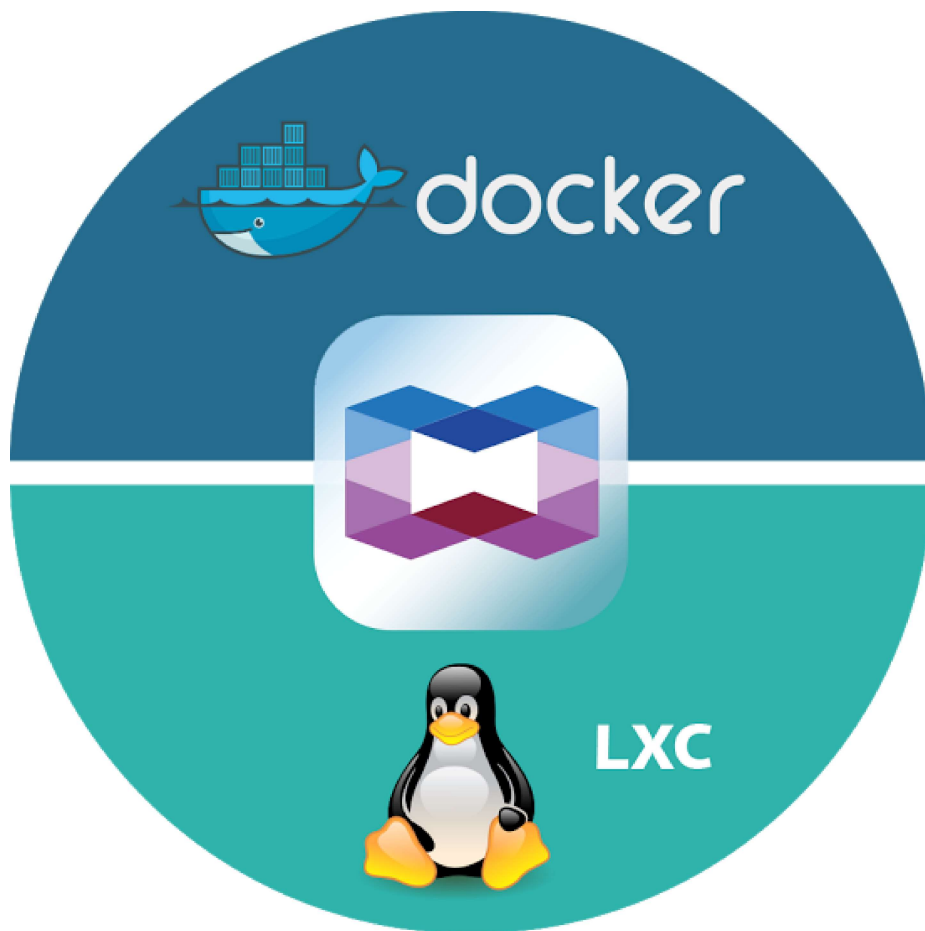


## Container Station - LXC integration and Docker Containers

QNAP Container Station (container workstation software) exclusive LXC support and Docker® two lightweight virtualization technology. You can perform a complete Linux virtual machines on the TS-431P, online marketplace by Docker Hub® from around the world to download thousands of apps. Its support for container import / export, access permissions, support Online Document application can be directly viewed on NAS, edit and store all types of files (including Office files, images, or text file), and provides graphical design overview page user interface and flexibility to help you easily manage multiple containers. TS-431P

allows you to experience stunning Container Station, enjoy a virtual world application container.

Know more: [the Container Station](#)

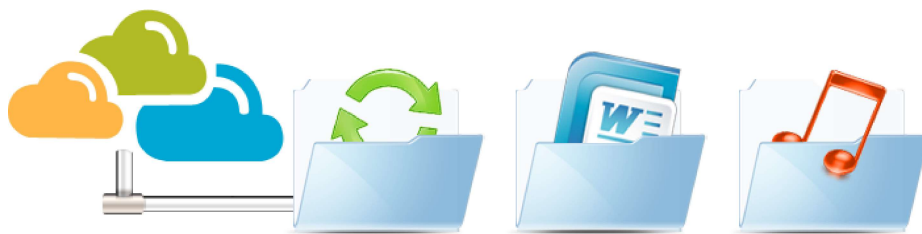


## To build a private cloud, unrestricted access to the file

Compared to the limited public cloud storage space and security concerns, has a large storage space TS-431P provide you with

safe, reliable, and complete control over the flow of information and the use of storage solutions, will also be able to conveniently publish services to the TS-431P Cloud. Through myQNAPcloud service, either on the bus or in a coffee shop, as long as connected to the Internet, can now connect to the TS-431P access files instantly share audio and video data, or master TS-431P system status. Regardless of time constraints, the real cloud service should be.

Read more: [myQNAPcloud Service](#)



## Cross-device file synchronization, an upload, multiple access

Qsync your TS-431P transformed into a secure file sync center large space, allowing you to upload one, multiple access. Any uploaded to the TS-431P files, can be linked to the TS-431P's desktop, laptop or other mobile device to read. For those who often need action operations through Qsync to manage files, you can always get the latest files from various devices. Qsync sync shared folder and allow the establishment of a project team dedicated group data folders, significantly increasing the

efficiency of collaboration; support central control mode and remote destruction synchronization folders when your computer is lost or stolen equipment Unfortunately this prevents important information outside vent; Once back of the device, it can also restore mechanism reply folder.

Read more: [qsync](#)



## , 24x7 security monitoring solution

Surveillance Station (video surveillance) is a professional network security monitoring solution that provides user-friendly interface, support more than 3,000 branch network camera models are widely compatible, and scalable network camera channel license to it is possible to easily build professional security monitoring center for real-time monitoring network cameras, audio and video recording and playback. Vmobile with mobile apps, whether you use iOS® or Android™ system, anytime, anywhere on your

mobile device to see the monitor channel monitoring, security guard office environment; You can also install Vcam mobile app mobile device into a network camera, easy the image capture down to around immediately and stored in the NAS. TS-431P offers two free webcam channel authorization, to follow your needs additional purchase [authorization](#) will be expanded to 25 channels to monitor road.

Read more: [Surveillance Station](#) , [Vmobile](#) , [Vcam](#)



## Your memories, share life as it happens

TS-431P large space, allowing you to store and share photos from fun. Photo Station (Photo Time House) provides an intuitive web interface, simply upload photos from your computer to the TS-431P later, through a simple drag and drop files, you can build beautiful choreography web albums, in addition to free access to the set, but also You can share photos to Facebook®, Google +™, Twitter®, Pinterest® and other social networking sites. In addition, as long as the installation Qfile or Qphoto mobile app

on your iOS® or Android™ mobile device, you can always upload photos to the TS-431P. You can now free to take pictures, and peace of mind to the picture stored in the TS-431P.

Read more: [Photo Station](#) , [Qphoto](#) , [QFile](#)



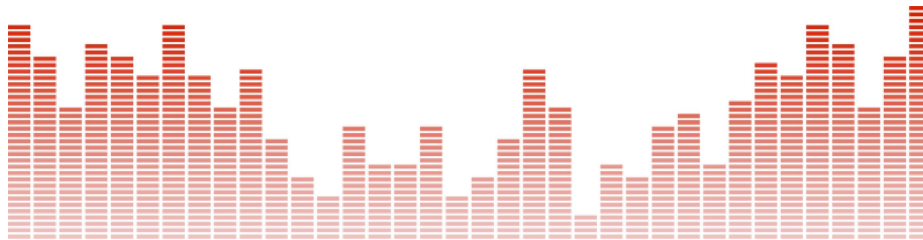
## Hear hears, NAS is your music cloud

Music Station (digital music library) that allows you to a lot of music collections in accordance with the classification of induction, and automatically retrieve album covers, so you can custom playlists. Through a web-based user interface, you can easily from anywhere on-demand music. Music Station is also

built-in Internet radio service that lets you listen to any worldwide network of radio programs.

- Through DLNA® Hi-Fi device, you can easily stream your music collection and high quality (DSD) music and enjoy high-quality music experience
- Through AirPlay® enjoy the features streaming music to compatible devices
- You can through [iTunes Server](#) directly stream your favorite MP3 tracks, or through the web browser on the PC side to play music in the NAS
- Through Qmusic, listen to music directly on your mobile device

Read more: [Music Station](#) , [QMusic](#)



## Multi-room audio and video systems, entertainment without limits

TS-431P can be a home office or a multi-room media center, video streaming broadcast every corner of the space surrounding the note. You only need to centrally managed from a single device in the TS-431P multimedia files, and via Bluetooth and TS-431P series of USB devices (music only), DLNA®, Apple TV® and



Chromecast™ \* streaming photos, music and video to different rooms, so that each member can freely manage, easy to enjoy multimedia storage player fun. TS-431P also supports Plex media server, a powerful and easy to use video streaming center to help you organize a variety of media collection, and support for DLNA®, Roku®, Amazon Fire® TV and Google TV™ and other devices .

\* For the Chromecast streaming multimedia audio and video, please first download and install multimedia extension pack app from QTS App Center.

Know more: [the DLNA](#) , [AirPlay](#) , [Connections Video Station](#)



## 24 hours standby, play downl

When using a computer to download large files, generally need to not only convenient, but also very power consuming. You simply set up a download task, you can shut down the computer, and the TS-431P Download responsible for the work. Download Station supports HTTP, HTTPS and FTP / FTPS downloads and other agreements and direct downloads. Downloaded by the RSS administrator seed and initiative to join the torrent. You can use the Qget mobile device app, you can phone or tablet device anytime, anywhere search, download files to the NAS, and manage download tasks.

Know more: [the Download Station](#) , [QGet](#)

## A machine in hand, anywhere access and management

A variety of mobile applications, allowing you to use iOS® or Android™ mobile device TS-431P can also enjoy the convenience. Qfile lets you upload anytime, download, browse and share files in the TS-431P, in one fell swoop to solve the problem for mobile devices is limited storage space; use iOS® device users, but also through the Apple TV streaming TS-431P videos and photos, and

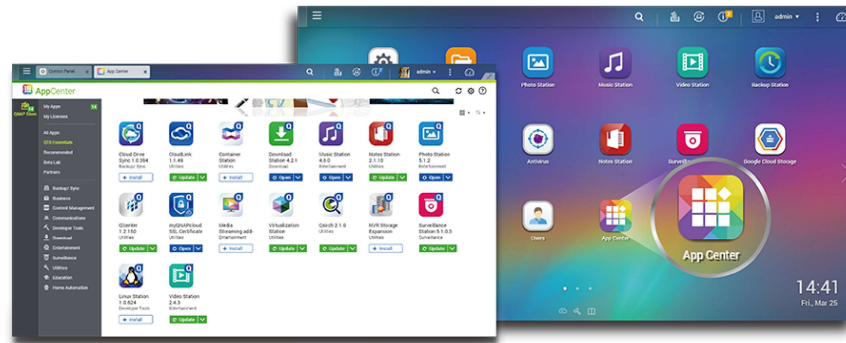
watch on TV. Qmanager the distal end of the TS-431P is your system administrator status, keep track of system status, important information connection status, progress of the backup. Qmusic, Qphoto and Qvideo allows you to watch and share TS-431P in the tens of thousands of photos and video collection everywhere.

Know more: [QFile](#) , [Qmanager](#) , [QMusic](#) , [Qphoto](#) , [Qvideo](#)



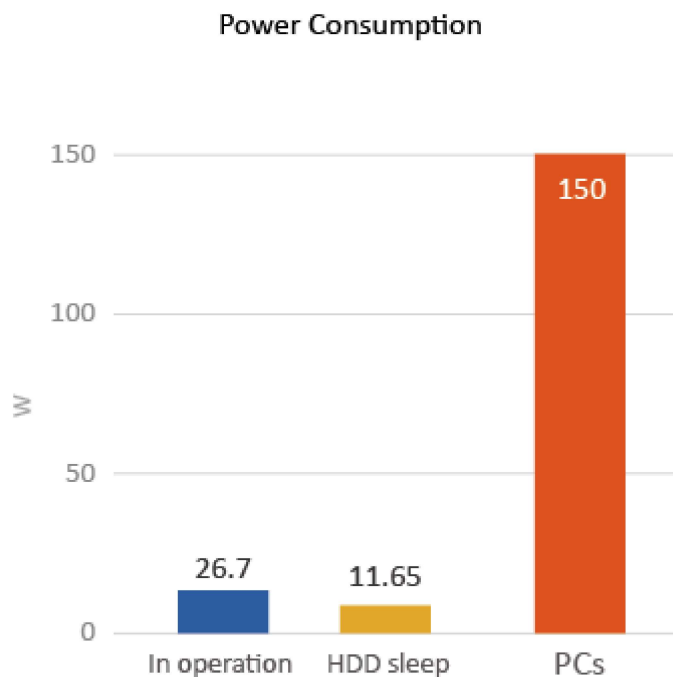
Diversification app-demand  
installation, NAS function  
continuous extension

Know more: [the App Center](#)



TS-431P uses energy-efficient dual-core ARM processor, even after prolonged operation of the low power consumption can be maintained, not only save electricity costs, leaving you to enjoy the convenience of personal cloud anywhere, anytime. Other energy saving design includes hard disk standby mode, the power switch scheduling, network wake-up service.

[https://www.qnap.com/zh-tw/product/model.php?ll=259&ref=product\\_overview](https://www.qnap.com/zh-tw/product/model.php?ll=259&ref=product_overview)



## Management NAS, it is not difficult

TS-431P offers a variety of system management tools, improve system management efficiency.



[Instant alert notification](#)



[System resource monitoring](#)



[Wake on LAN wake-on-lan](#)

Graphical interface showing CPU, memory, hard disk use, bandwidth usage, system health, Drive health information, allowing you to easily control and

monitor system  
resources.

TS-431P supports Drive SMART (Self-Monitoring Analysis and Reporting Technology), can monitor hard drive status, check for potential problems, and warning messages through Email settings to remind users premade Drive data protection measures. Furthermore, NAS of HHS (HDD Health Scanning) technology to check the status of your hard drive and scanning to prevent potential data loss.



[Scheduled power switch](#)



[Advanced HDD Health Scanning](#)



[A tremendous amount of system records](#)

## Complete home office applications

TS-431P supports many more home office applications, downsizing and efficient.

Turbo NAS offers convenient hosting plan, just simple steps, you can quickly focus on

[FTP server](#)[Web server](#)[RADIUS server](#)

multiple sites on the same server rack. Users can manage up to 32 pages on one Turbo NAS, reduce IT costs.

Remote management and multi-link webcam support, and real-time monitoring, recording, playback, motion detection alarm and event notification.

[Virtual Private Network](#)[Printer server](#)[Safety Monitoring Center](#)

[Click](#) to learn more about home office functions.

QIoT Containers

QmailAgent

Qcontactz

Linux Station

VJBOD

OceanKTV

Qsirch

Virtualization

Qsync