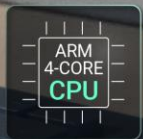


QNAP

TS-216G

First Choice 2.5GbE 2-Bay NAS

The Upgraded Entry-level NAS
to Streamline Your Storage
and Workflows



TS-216G NAS main application



Collaborate and backup

Collaborate and backup data for Office

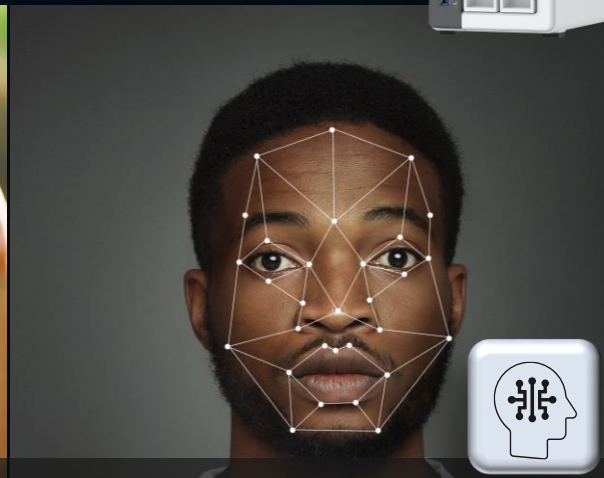
The company's essential data should keep safe. Sufficient data space and high-speed bandwidth are necessary.



Snapshot Protection

Snapshots protect precious family photos

Any travel or life photo records can be backed up and quickly searched through the NAS.



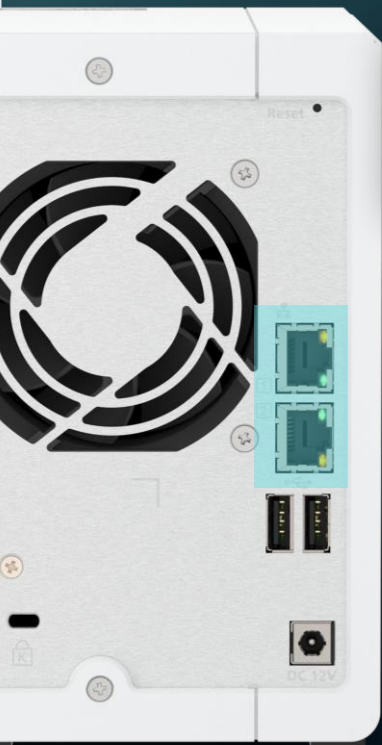
NPU AI acceleration

NPU AI accelerates face recognition

Built-in NPU for AI faces recognition accelerated QNAP's QuMagie photo smart album.

2.5GbE + 1GbE dual ethernet

Allows you to cross the limit of home network bandwidth



1 x 2.5GbE

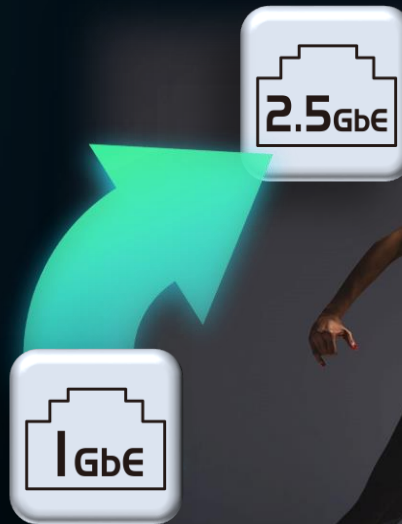
+



1 x 1GbE

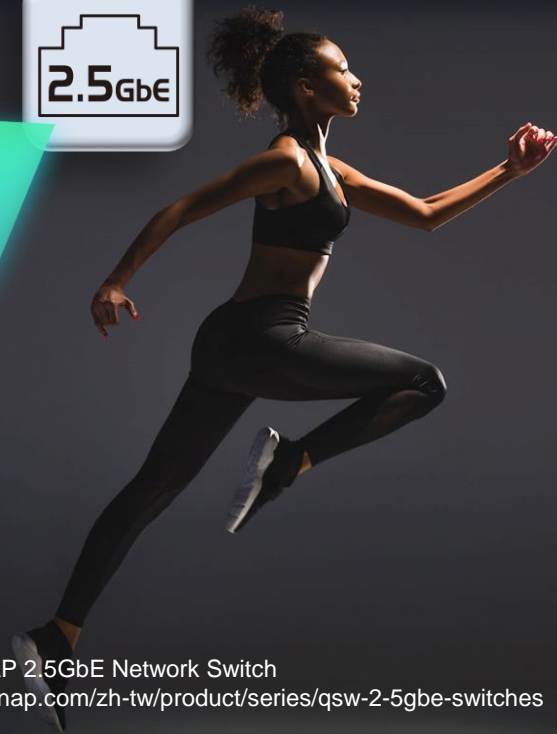
Upgraded 1 x 2.5 GbE

Only the general 1GbE network speed can not meet the needs of today's home multimedia applications and the basic storage needs of office users. Therefore, in addition to the standard 1GbE network, the TS-216G NAS has been upgraded with one 2.5GbE high-speed network for users. So that the video network streaming is smooth and unimpeded, and the data transmission is smooth and smooth.



Optional QNAP 2.5GbE Network Switch

<https://www.qnap.com/zh-tw/product/series/qsw-2-5gbe-switches>



Smart NPU for AI acceleration

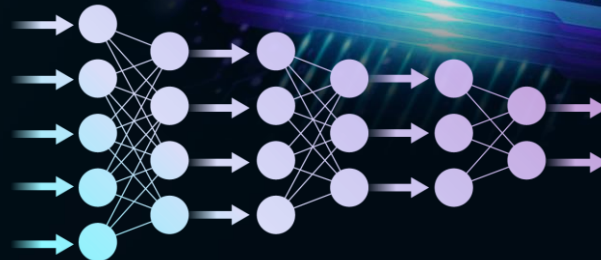
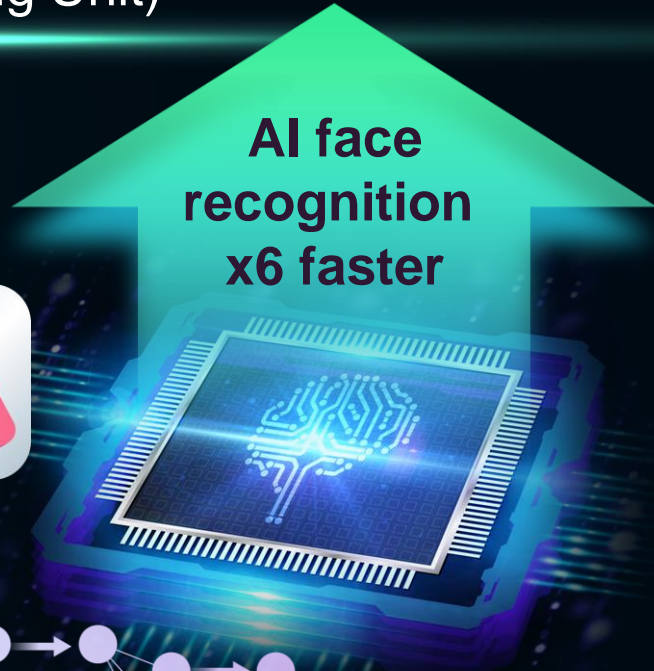
(Neural network Processing Unit)

TS-216G build-in NPU

TS-216G supports QuMagie smart album, which is six times faster than the AI face recognition of same class models, and the overall performance of QuMagie AI is improved. It can enrich your life.

Neural network diagram

The independent neural network processor runs the image recognition by AI models, making the image classification operation faster.

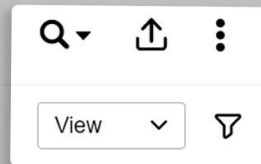
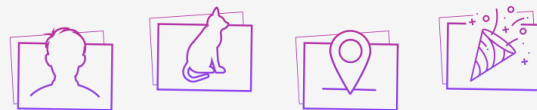




QuMagie

TS-216G built-in NPU AI acceleration make QuMagie more powerful

QuMagie integrates the QNAP AI Core image recognition engine, enables face and object recognition, and automatically categorizes photos in the NAS according to where the photo was taken. As a result, quickly find photos of similar people, things, places, and events in the Event Album.



All Photo 6,356 photos, 163 videos

2018/06/16 12 photos, 2 videos



2018

The largest 4GB memory in the same class of NAS



TS-216G built-in 4GB large-capacity memory

The same class of 2-bay NAS in the market generally uses lower-capacity memory to save cost. QNAP for achieving the best NAS performance, TS-216G used a 4GB large-capacity memory design, making the overall NAS run more smoothly. In addition, it supports up to 256 Snapshots snapshot protection, and QVR Elite intelligent monitoring can connect 20 network cameras (free support for two cameras). However, a smoother user experience is waiting for you to discover.



QVR Elite Smart Surveillance

Free support for two camera channels (flexible expansion)



Snapshots Protection

Support up to 256 sheets

Do you have these troubles?



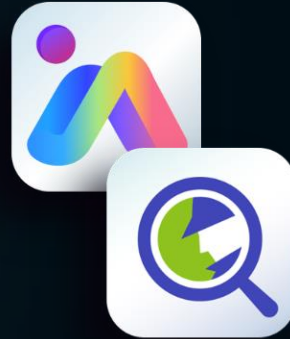
- Have problem saving all your photos, video, other files in one place
- Hard to find your data from Pen Drive and external devices
- Afraid of data loss
- Take a long time to organize data
- Have difficulty setting the home surveillance
- Have trouble finding an intelligent home automation solution

QNAP NAS solves your problems



Centrally manage massive storage data

supports a single SATA slot of 24TB



Unique AI Application QuMagie and Qsirch

QuMagie, Qsirch



Intelligent automated software

Qsync, Qmiix (data backup and synchronization, home automation)

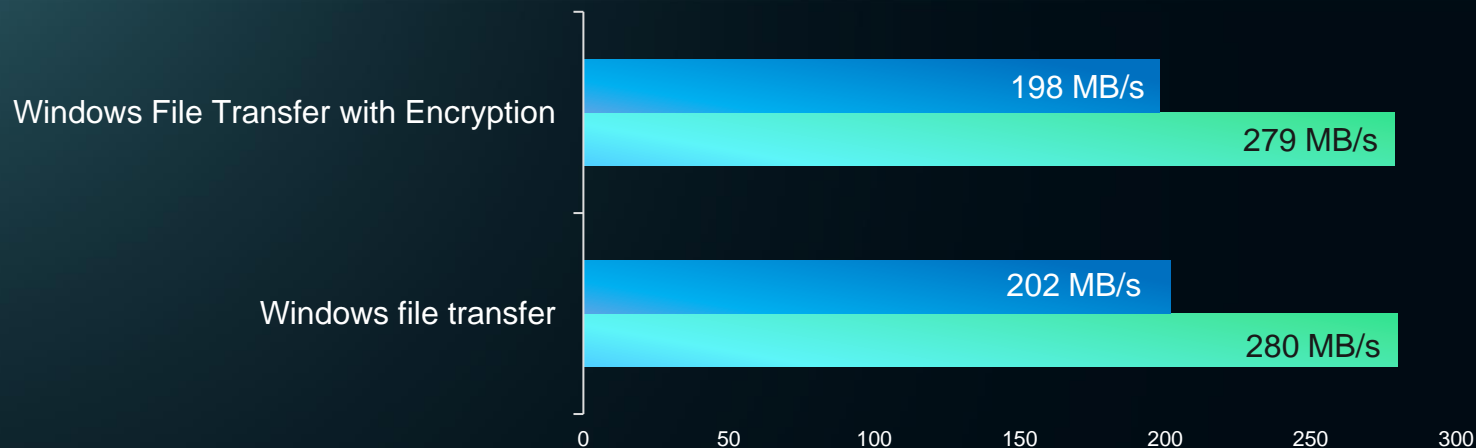


Supports HBS3 to be a comprehensive backup solution

Data security protection

2.5GbE network performance test

10GB large file transfer



	Windows file transfer	Windows File Transfer with Encryption
■ Download	202	198
■ Upload	280	279

Test Environment
NAS: TS-216G
OS: QTS 5.0
Volume type: Samsung SSD 850 PRO 512GB
Client PC: Windows 10, Intel Core i7-6700 CPU, 3.40GHz., 64GB RAM

Tested in QNAP Labs.
Figures may vary by environment.

TS-216G

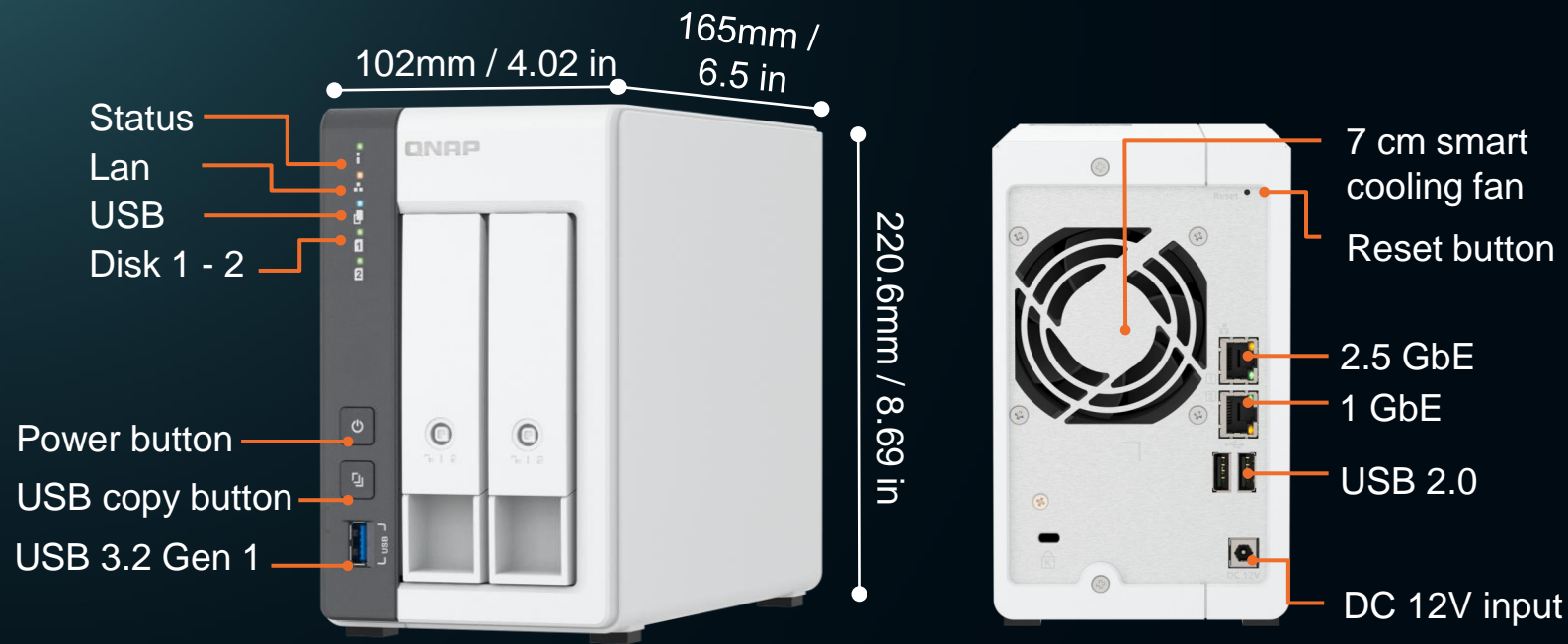
Hardware features

- ARM 64bit Cortex-A55 4-core 2.0GHz processor
- Build-in 4GB memory
- 1 x 2.5 GbE, 1 x 1 GbE dual ethernet
- 2 x SATA 3.5-inch or 2.5-inch disk support
- Front USB3.2 Gen1, rear 2 x USB2.0
- 7cm silent cooling fan
- Low power consumption Energy saving (standby 4.97W, operation 13.9W)

* Accessories include keys for the disk tray, which can be locked to avoid the risk of accidental removal by children.



Minimalist design and size, I/O introduction



TS-216G Hardware specification

TS-216G

CPU	ARM Quad-core Cortex-A55 up to 2.0GHz
Memory	4GB (not expandable)
Disk	2 x 2.5" / 3.5" SATA
Disk Interface	SATA 6Gb/s
Ethernet	1 x 2.5 GbE, 1 x 1GbE
USB Port	1 x USB 3.2 Gen1 Type-A (front) 2 x USB 2.0 Type-A (rear)
Form Factor	Desktop
LED Indecators	Status, LAN, USB, Disk 1-2
Buttons	Power, Rest, USB copy
Dimensions (HxWxD)	220.6 x 102 x 165 mm (8.69 x 4.02 x 6.5 inch)
Adapter	12V, 48W
Fan	1 x 70mm

Optional expansion storage unit that supports USB JBOD & RAID



TR-002

2-bay
Desktop USB 3.2 Gen 2 JBOD
Support Hardware RAID



TR-004

4-bay
Desktop USB 3.2 Gen 1 JBOD
Support Hardware RAID



TL-D800C

8-bay
Desktop USB 3.2 Gen 2 JBOD



TR-004U

4-bay
Rackmount USB 3.2 Gen 1 JBOD
Support Hardware RAID



TL-R1200C-RP

12-bay
Rackmount USB 3.2 Gen 2 JBOD
Support redundant power supply

Optional network switch

QSW-1105-5T (Unmanaged)



5 x 2.5GbE
RJ45 Multi-Gig

Fanless and
Metal Case

QSW-1108-8T (Unmanaged)



8 x 2.5GbE
RJ45 Multi-Gig

Boost 2.5GbE without
replacing existing cabling



	CAT 5e	CAT 6	CAT 6A
100M	✓	✓	✓
1G	✓	✓	✓
2.5G	✓	✓	✓
5G	✓	✓	✓
10G	X	✓(55m)	✓



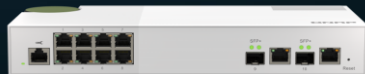
QSW-2104-2T (Unmanaged)

2 x 10GbE RJ45
4 x 2.5GbE RJ45



QSW-2104-2S (Unmanaged)

2 x 10GbE SFP+
4 x 2.5GbE RJ45



QSW-M2108-2C (Managed)

2 x 10GbE SFP+/RJ45 combo
8 x 2.5GbE RJ45



QSW-M2108R-2C (Managed)

2 x 10GbE SFP+/RJ45 combo
8 x 2.5GbE RJ45

For more options, please refer to the official website
<https://www.qnap.com/zh-tw/product/series/qsw-2-5gbe-switches>

myQNAPcloud Link remote access

The myQNAPcloud Link app is integrated with myQNAPcloud. It provides a safe and convenient remote access service, which includes SSL certificated connection and access control, linking you to your QNAP NAS from wherever you are.



Safe connection with
SSL certificate



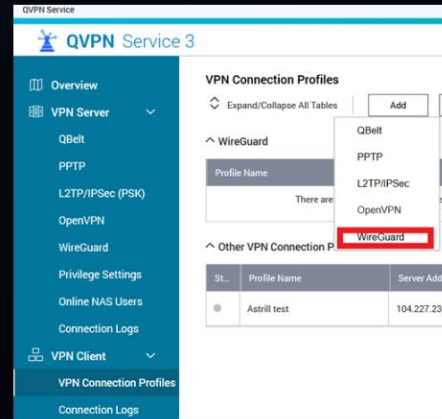
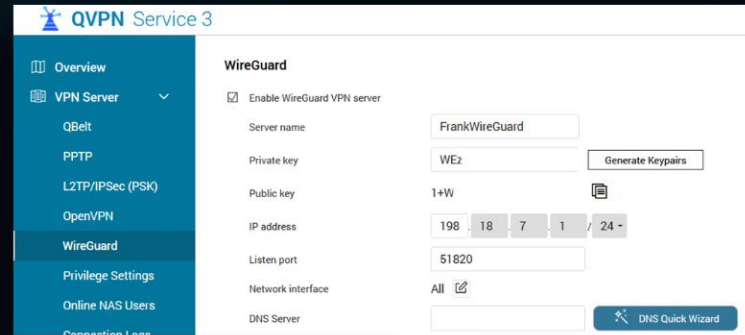
Access control



High-speed WireGuard VPN support



- WireGuard® provides faster Point-to-Point of VPN connectivity.
- QVPN service integrated WireGuard server/client
- Compatible mobile devices which install Wireguard enjoy high-speed VPN transmission.



HBS3 set by three steps for a backup strategy



Simple completed 3-2-1 backup strategy and recovery plan 3 copies · 2 media type · 1 remote backup



3 copies

Copies 1
NAS

Copies 2
NAS off-site

Copies 3
Google Drive

1 remote backup

2 media types

Government-level backup 3-2-1 strategy

Refer to the United States Computer Emergency Readiness Team (US-CERT) strategy. Backup 3-2-1 principle, users can use this setting to achieve data security at the level of government units.



US-CERT

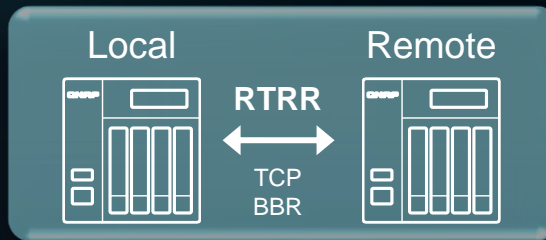
UNITED STATES COMPUTER EMERGENCY READINESS TEAM

HBS3 Diversified Communication Protocol Backup and Data Synchronization



Multi-cloud

data backup and synchronization for NAS private cloud and public cloud



Remote backup and synchronization

remote backup and sync by RTRR



Data recovery

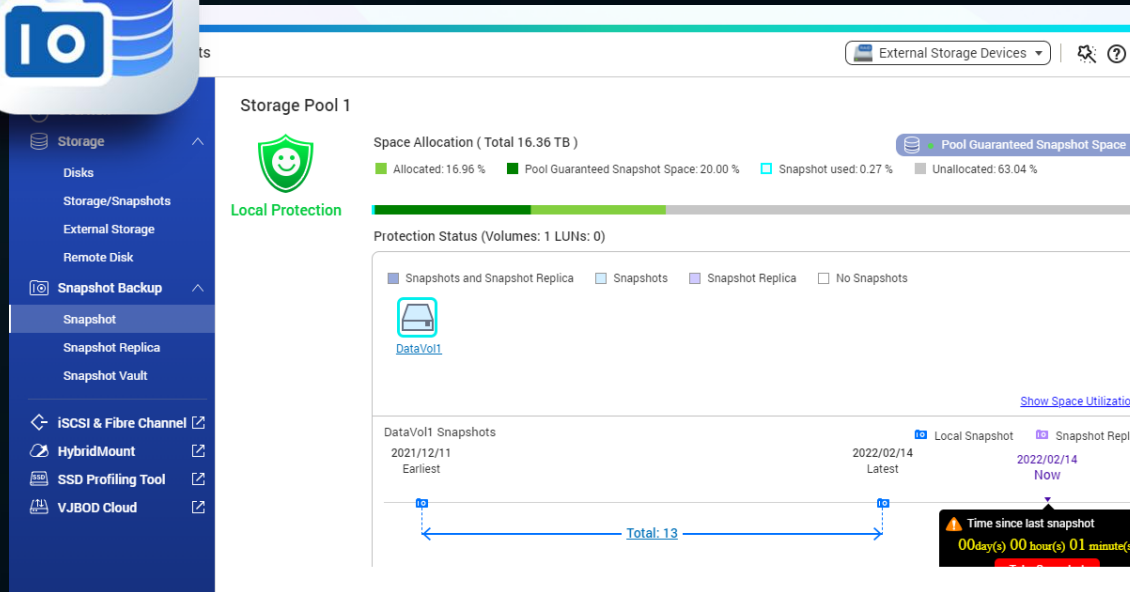
data protection and recovery

	Backup	One-way Sync	Active Sync	Two-way Sync
Local NAS	supported	supported	supported	-
Remote QNAP NAS (RTRR)	supported	supported	-	supported
Rsync Server	-	supported	-	-
FTP Server	-	supported	supported	-
CIFS/SMB Server	-	supported	supported	-
Cloud Services	supported	supported	supported	supported

Snapshots for fast and flexible data protection

Perfect instant snapshot backup

QNAP NAS supports the Snapshot function, just like taking a photo, which can record the system status and data as a backup for future restoration, and uses less storage space than traditional backups. For example, when NAS data is damaged or the computer is threatened by encrypted ransomware, snapshot files can be used to quickly restore, ensuring that important data is safe without loss.

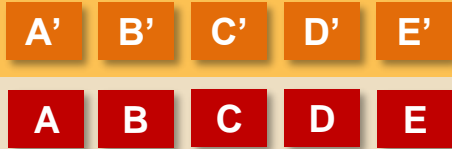


Up to 256 snapshot data backups

File-based



Block-based



1. Full support for volumes (and file-level LUNs) on storage pools and block-level LUNs.
2. Easy way to capture, manage and restore snapshots.
3. Develop "off-disk" snapshots with the stable EXT4 file system on the market.

RAM size	The entire NAS supports the maximum number of snapshots	Per Volume/LUN supports the maximum number of snapshots
4GB	256	64

* Ransomware that invades through the user's computer or an external device cannot overwrite the snapshot.



Disk space on your computer or server

External storage device

Cloud / NAS

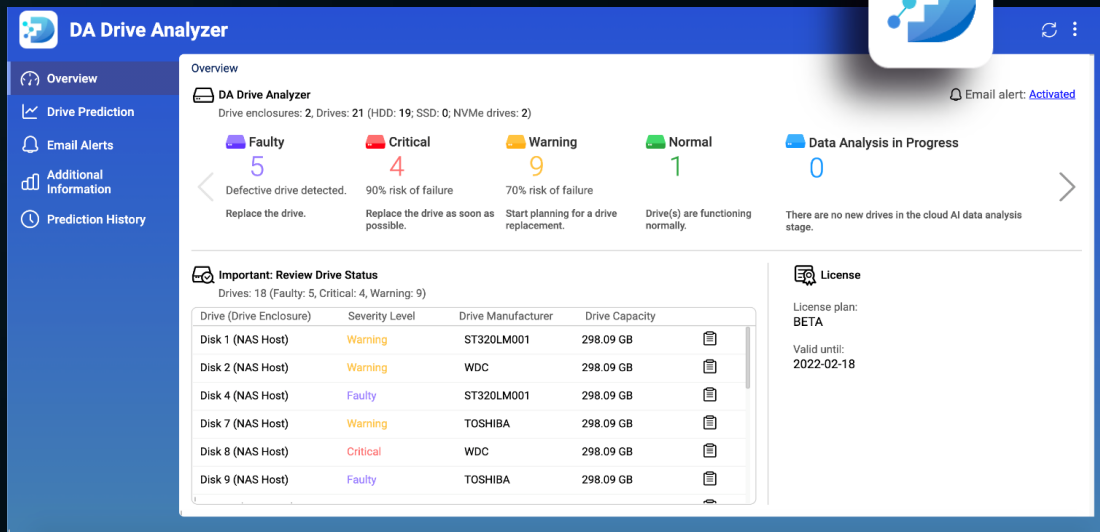
DA Drive Analyzer for disk failure prediction

Accurate failure prediction through AI-driven disk diagnostics

DA Drive Analyzer integrates the cloud-based artificial intelligence technology of ULINK, a leading manufacturer of disk testing tools. By analyzing millions of disk data in the past, it can issue a warning notification when the disk is about to fail, allowing you to replace the disk in time. In addition, through its friendly user interface, you can check the disk health, including S.M.A.R.T. properties, temperature, and test IOPS. You can also view advanced disk-related information on the ULINK DA Portal website. With DA Drive Analyzer, unannounced disk failures will never happen again.

Note: DA Drive Analyzer does not yet support NVMe SSD, and some SATA hard drives may be displayed as "Not Supported" after being analyzed by the Cloud AI inference system due to different firmware or manufacturer settings

Each NAS can support one disk prediction for free, and you can also have a paid subscription to support all disks.

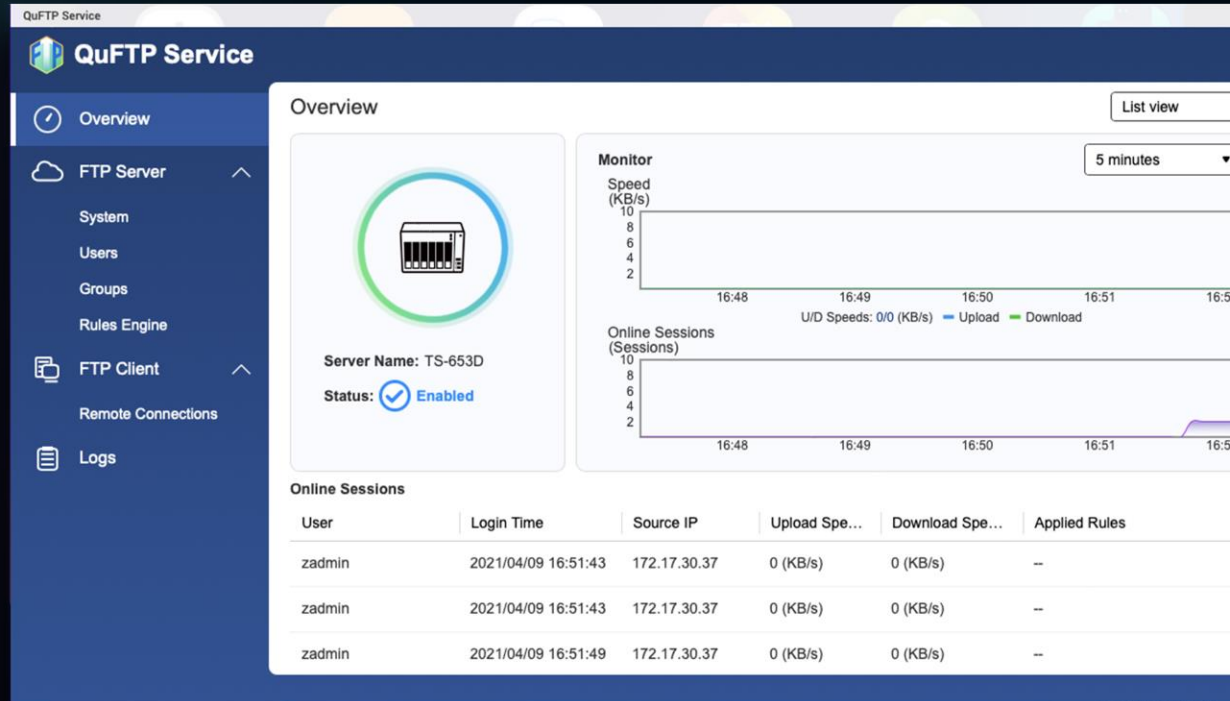


The screenshot displays the DA Drive Analyzer dashboard. At the top, it shows the overall status: 5 Faulty, 4 Critical, 9 Warning, 1 Normal, and 0 Data Analysis in Progress drives. Below this, an 'Important: Review Drive Status' section provides a summary of 18 drives (5 Faulty, 4 Critical, 9 Warning) and a table of drive details.

Drive (Drive Enclosure)	Severity Level	Drive Manufacturer	Drive Capacity
Disk 1 (NAS Host)	Warning	ST320LM001	298.09 GB
Disk 2 (NAS Host)	Warning	WDC	298.09 GB
Disk 4 (NAS Host)	Faulty	ST320LM001	298.09 GB
Disk 7 (NAS Host)	Warning	TOSHIBA	298.09 GB
Disk 8 (NAS Host)	Critical	WDC	298.09 GB
Disk 9 (NAS Host)	Faulty	TOSHIBA	298.09 GB

QuFTP remote file FTP access service

- Can be updated independently
- Supports FTP server
- Supports TLS settings
- Supports QoS settings
- Support specification setting
- Supports FTP client

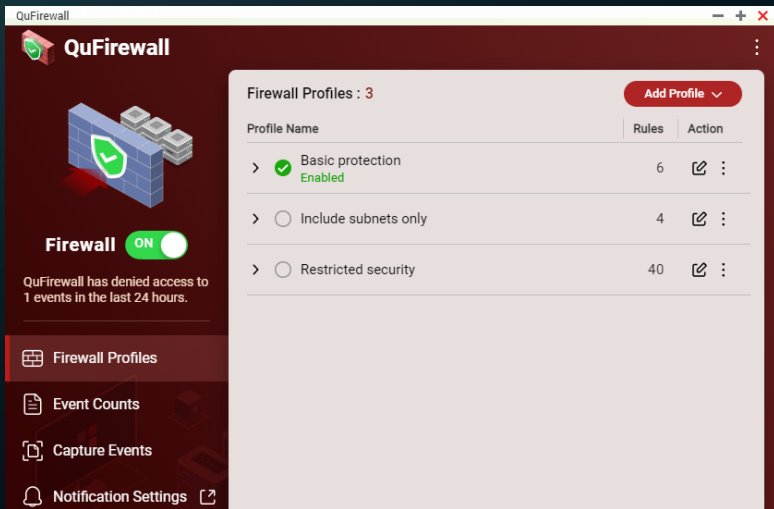


Data security: safeguard your NAS data

QuFirewall



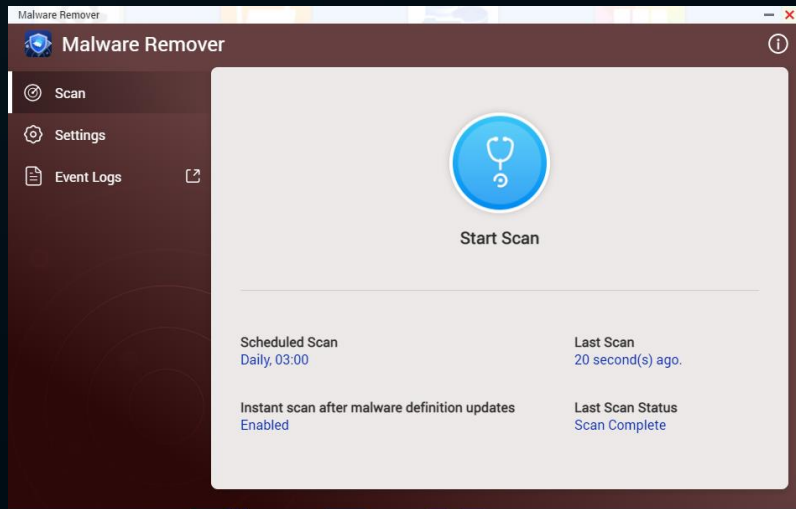
You can allow/deny IP addresses and regions to prevent unauthorized access and brute force attacks for safeguarding data and service security.



Malware Remover



Regularly scan your NAS check for and download the latest malware definitions. Then, when attacked, the infected files can be excluded in real-time, helping to improve the level of NAS data security.



Qfile put massive files into your pocket



All-in-one App

Local NAS files, Cloud services mount, Remote NAS files, External devices



Share files

Easily share files to others.



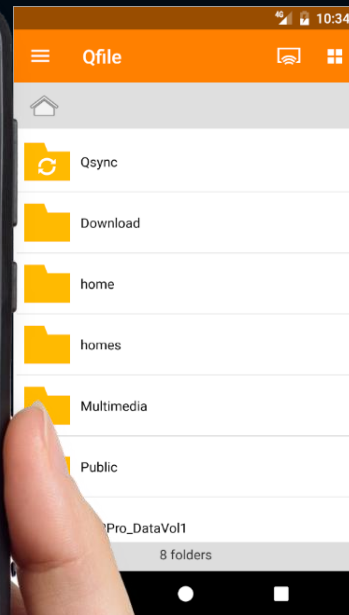
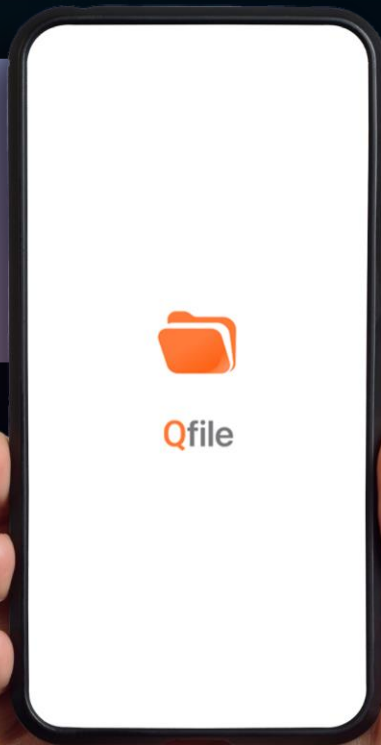
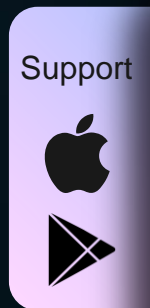
Auto upload

Real-time auto upload files in mobile device in the background.



Advanced Security

Support 2-step authentication and passcode.



Qsirch full-text search tool for browsers

Just like Google™ supports real-time search of NAS files on various devices



Qsirch is a full-text search engine dedicated to QNAP NAS, allowing you to find the files you need by file name, content, and metadata.



Full-text search

AI search

Multiple filters

- Specify a path, enter keywords for advanced search
- With powerful filters, you can search without keywords
- Search, preview, and share in one go
- Four search portals can be searched anywhere



Qfiling auto archive and filing

Qfiling automates your file organization. All you need to do is categorize your files, set a schedule, and Qfiling will do the rest. It's easy, smart, and efficient !



Flexible

Customize the filing and batch editing rules.



Efficient

Scheduling for auto filing.



Total Control

With system logs, filing status is easily accessible.

The screenshot displays the Qfiling Premium interface. On the left is a purple sidebar with navigation options: Overview, Task List, Recipe Library, and System Logs. The main content area is titled 'Task Status' and features three circular progress indicators for different task types:

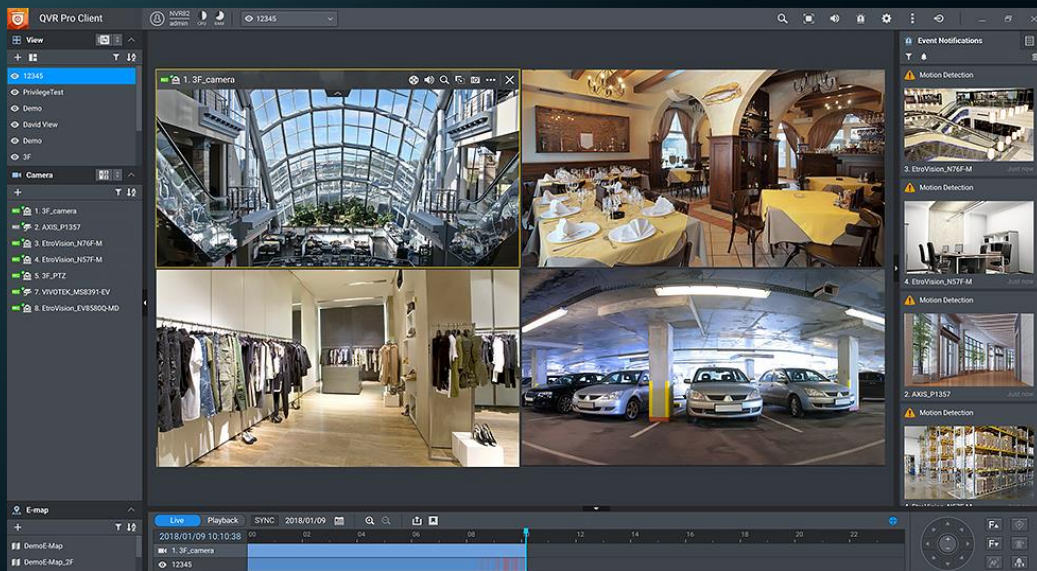
- One-time task:** Total 4. Sub-categories: Completed (2), Running (1), Queued (1).
- Scheduled task:** Total 3. Sub-categories: Completed (1), Running (1), Queued (1).
- Real-time task:** Total 1. Sub-category: Monitoring the ... 1.

Below the task status is a section for 'File Editing Modules' with the text: 'During the filing process, you can also edit or convert files using the below file editing modules.' This section contains nine icons representing various editing capabilities:

- Video Transcoding (For videos)
- Subtitle Pairing (For videos)
- Encryption & Decryption (For all files)
- Compression (For all files)
- Watermark (For images and videos)
- Resize (For images)
- Convert (For images)
- Face Blur (For images)
- Image2PDF (For images)

At the bottom left of the interface, there is a small illustration of a person sitting at a desk with a laptop, and a double-left arrow icon.

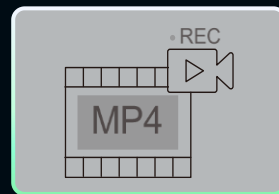
QVR Elite Smart Surveillance System



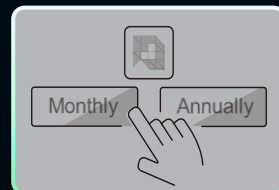
QVR Elite



Free support for 2 channels
(Flexible expansion)



Standard MP4 format



Flexible subscription plan



Easy to expand
storage capacity

Compatible with a huge amount of camera models

Over 180 Brands

 GeoVision

 VIVOTEK
BUILT WITH RELIABILITY

 Panasonic

 AXIS
COMMUNICATIONS

 MOBOTIX

 Canon

 HIKVISION

 aHua
TECHNOLOGY

 Honeywell

 Brickcom

Over 6,700 Models



ONVIF Profile Supported

 ONVIF® | S

RTSP Stream
Input / Output

RTMP Stream
Input

Unified interface for live view & playback, anywhere with a PC or mobile device

Monitor the live view of multiple channels and playback on 1 single interface.

The image displays the QVR Pro software interface, which is designed for monitoring multiple camera channels. The interface is split into several sections: a left sidebar for camera selection, a main grid of video feeds, and a bottom control bar. The main grid shows a mix of live and playback views. A large play button icon is overlaid on the grid, indicating a transition to playback. The bottom control bar features buttons for 'Live', 'Playback', and 'SYNC', along with a timeline for navigation. Three callout boxes with colored lines point to specific features: a green box around the 'Live' and 'Playback' buttons, a pink box around the 'SYNC' button, and a blue box around the timeline.

1 click to switch between Live & Playback

1 click to sync playback all video views

1 click to jump to the previous playback time

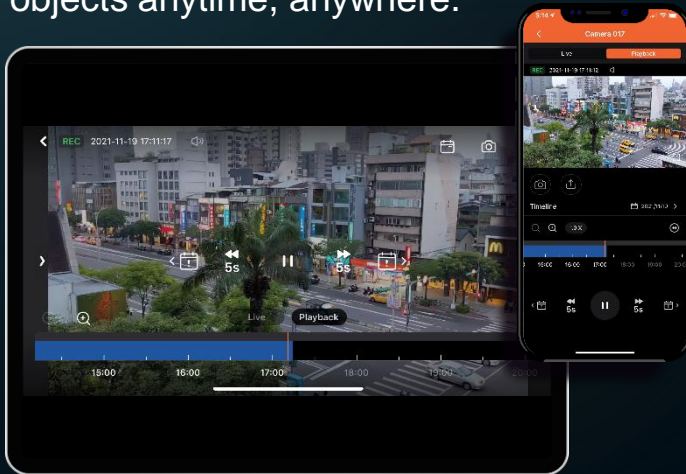
Surveillance Client for mobile and home environment



QVR Pro Client

Cross-device recording and playback

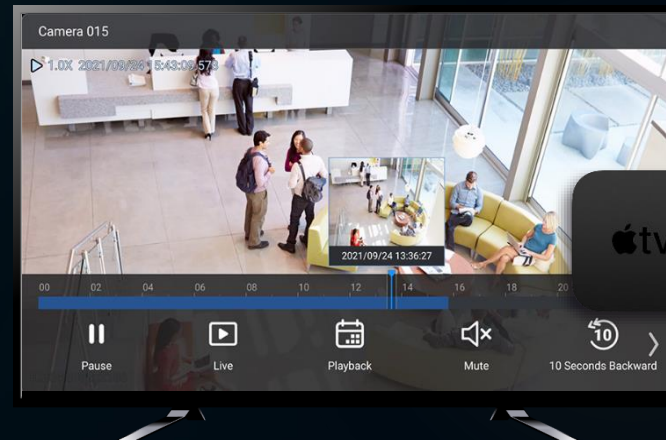
Mobile device recording and playback protect important people, things, and objects anytime, anywhere.



QVR Viewer

New Apple TV Monitoring App

The new Apple TV monitoring application is a convenient APP installed on Apple TV for monitoring and playback.



Apple TV

Support Video streaming and is suitable multimedia server

Various multimedia files can be easily centrally stored, such as photos, music, and video. Enjoy your NAS collections on your phone, tablet, or TV.



Use Cinema28 to stream multimedia to various AV playback devices



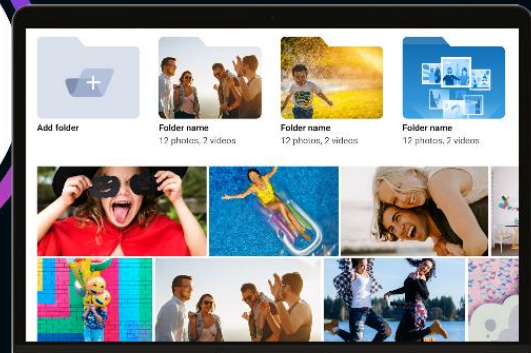
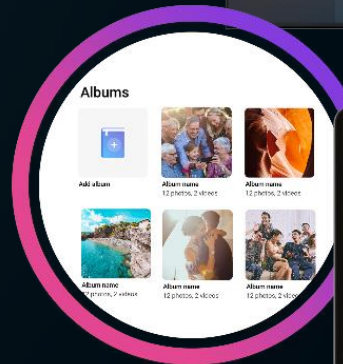
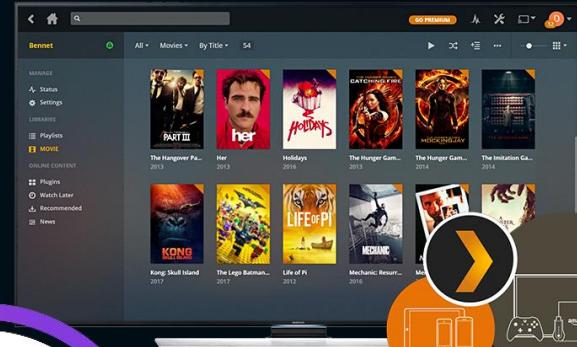
Stream/Transform Multimedia to Various AV Devices with Plex



Play via Qmedia on Apple TV/Fire TV/Roku/Android TV



QuMagie smart album, automatic face recognition, and object classification



Customize and automate workflows

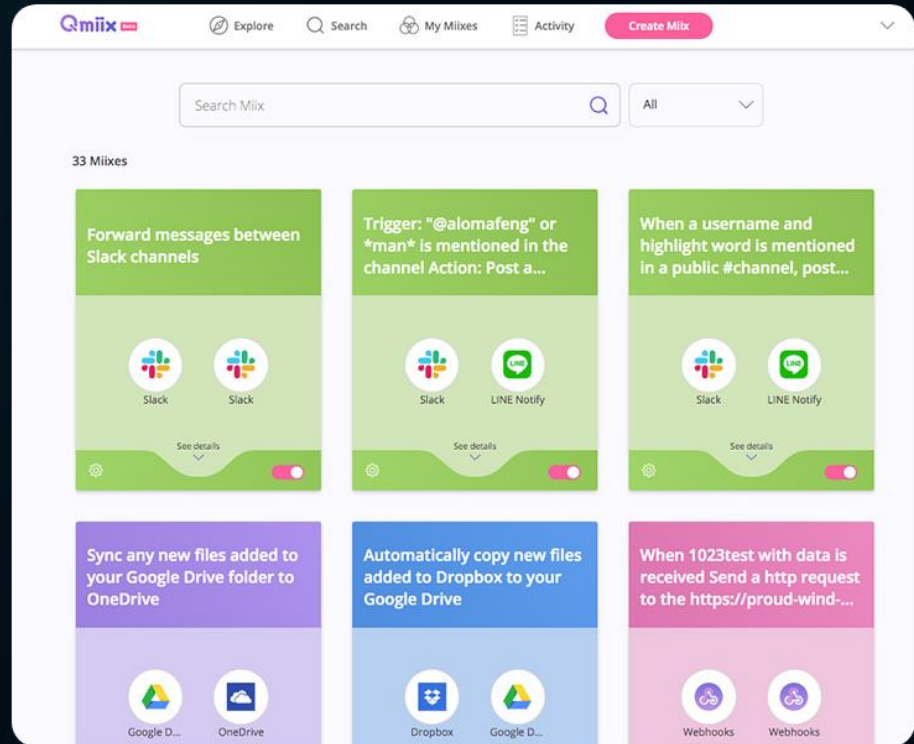
across multiple clouds, NAS, and applications to help save time and cost



Qmiix

Cross-Platform Workflow
Automation Solutions

Qmiix can connect and automate workflows between QNAP NAS, cloud services, social networking, and communication software, simplifying routine tasks such as backup, document posting, and event notification. In addition, Qmiix provides efficient communication channels and a flexible multi-cloud backup environment to enhance the productivity of office and collaborative teams.





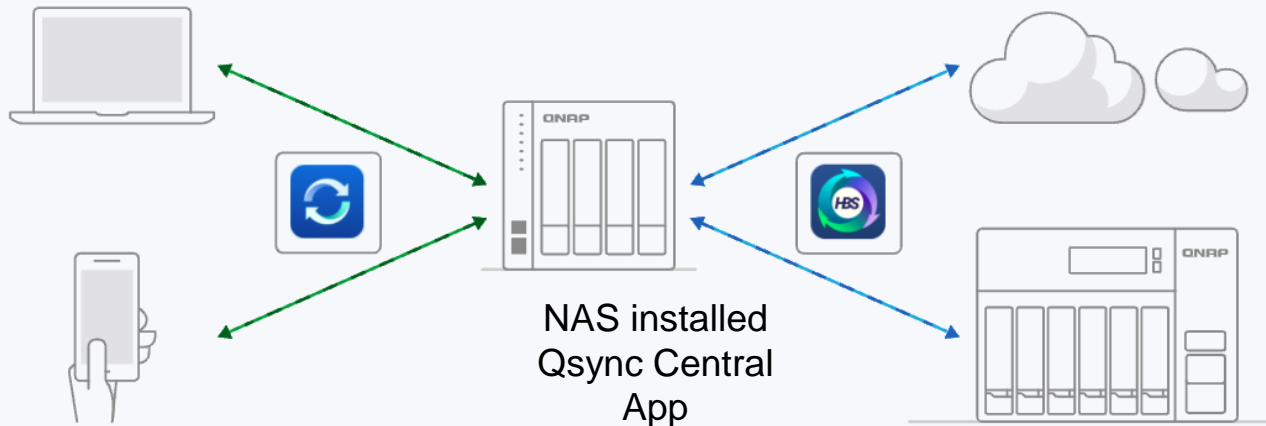
Qsync cross-device file synchronization technology for individual and team collaboration

Qsync allows you to conveniently synchronize real-time files between your QNAP NAS and bound devices, suitable for desktops, laptops, and mobile devices. As a result, you can access the newest data on all your devices and easily share it with your work team or family members.

- Central control mode and user-defined mode flexible configuration
- Up to 64 version-controlled, restore data at any time
- Remote erase to delete synced files from lost devices

- Centralized management of binding devices to improve security and management efficiency

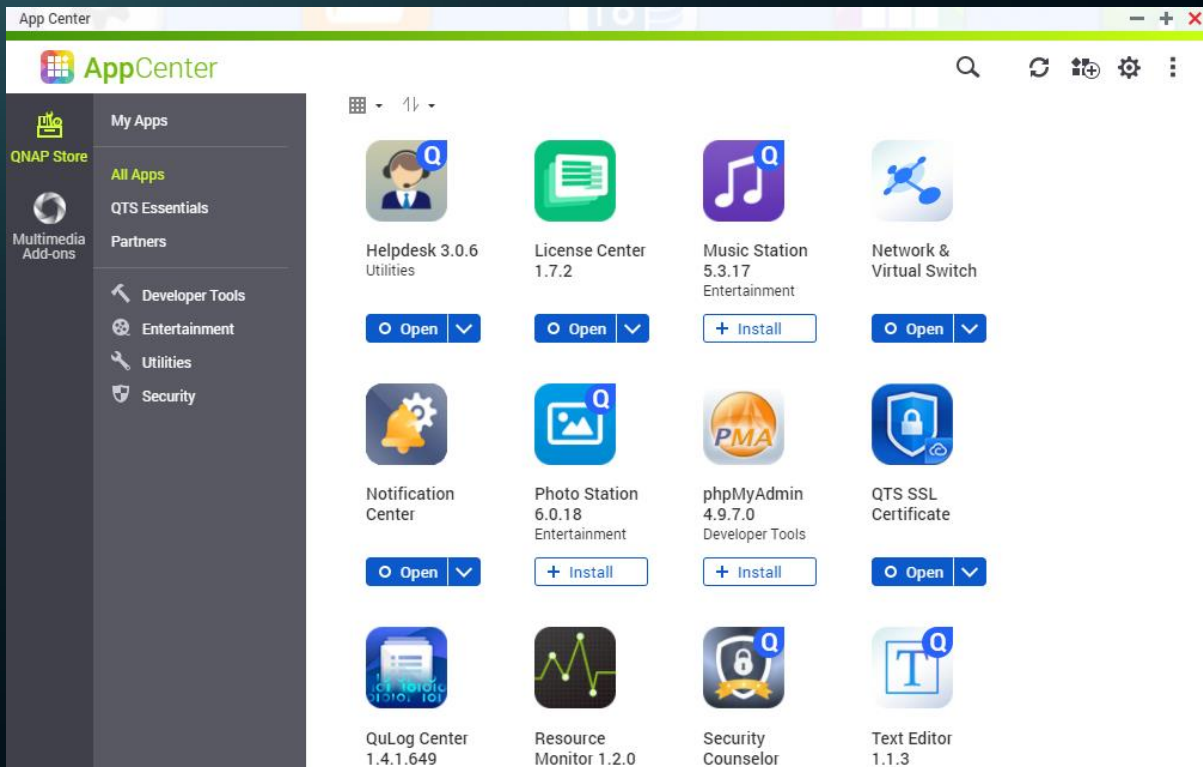
- Sync files to other NAS or cloud with Hybrid Backup Sync





App Center

Wide variety of applications



NAS functions beyond imagination

QNAP APP Center includes various applications. You can install and expand multiple functions of the NAS on-demand. QNAP keeps developing products and seeks cooperation with related application software. We evolve every second, care about users' needs, and continuously try various forward-looking ideas. It is the only constant persistence of QNAP in the rapidly changing AI era.

https://www.qnap.com/zh-tw/app_center/

Who is suitable for the NAS?

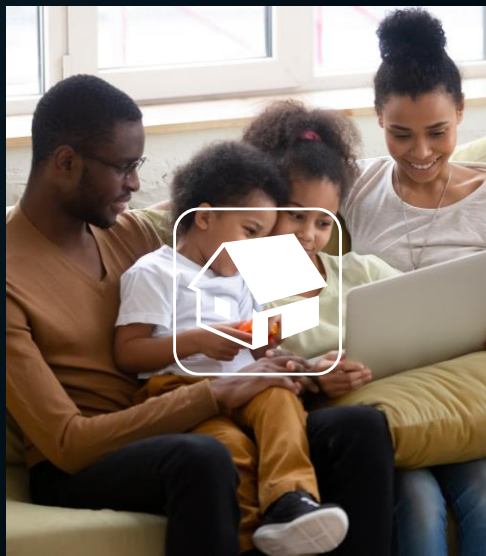
TS-216G

Good value 2.5GbE 2-bay NAS



Home user

The minimalist NAS design is suitable for installation at home to store precious photos and videos. The built-in NPU AI acceleration makes image recognition even more powerful



Small business

2-bay SATA disk and high-speed 2.5GbE network support, allowing small business users to properly configure data backup in the office



NAS usage scenarios

Photo storage AI management

NPU acceleration can effectively improve QuMagie smart album management performance



Storage of self-media data

Any audio and video data can be stored in the NAS through FileStation



Smart monitoring

4GB of RAM makes QVR Elite support for subscriptions up to 20 cameras run smoother



INTEGRATION

Multimedia streaming playback

Supports viewing of stored rich multimedia files by subscribing to Plex

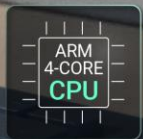


QNAP

TS-216G

First Choice 2.5GbE 2-Bay NAS

The Upgraded Entry-level NAS
to Streamline Your Storage
and Workflows



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