QNAP

TS-433eU

Dual 2.5GbE Energy-Efficient 1U:
Ideal for Office Data Storage
30cm / 12-inch Short-depth design
ARM 4-core Cortex-A55 2.0GHz, 4GB RAM

short-depth | 2.5GbE | USB 3.2 Gen 1 | NPU

Global Backup Trends and Private Cloud Storage Solutions

The Perfect Answer to Data Growth Challenges

According to Bocada's 2024 Backup Monitoring Trends Report, 47% of IT professionals believe that backup monitoring will become more tightly integrated with cybersecurity to counter ransomware threats in the coming years. Private cloud solutions like QNAP's 1U short-depth NAS TS-433eU offer efficient local storage and enhanced security, reducing reliance on external networks. Additionally, the report highlights that automated backup repair will be implemented within the next two years, which is crucial for improving storage management efficiency. The TS-433eU, with its space-saving design and flexible scalability, is the ideal choice for small to medium-sized businesses to address growing data and security needs.

Link: https://www.bocada.com/backup-monitoring-trends-report/

TS-433eU 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 important business data

Snapshots protect important business data. Any work-related files or records can be backed up and quickly searched through the NAS

Surveillance Storage

Office AI Surveillance Storage

Equipped with NPU for facial recognition and crowd monitoring, allowing for real-time data processing and enhanced security management

TS-433eU NAS features

30-cm / 12-inch depth

Short Chassis with Easy Maintenance
The chassis

Dual 2.5 GbE ports

Sufficient 2.5 GbE network bandwidth provides smooth data transmission experience

Energy saving

Save up to 80% energy, cutting costs and electricity bills

NPU AI acceleration

NPU acceleration for AI applications reduces CPU load

4GB memory

Abundant memory for running multiple NAS applications smoothly

ARM 4-core processor

ARM 4-core 2.0GHz high-performance processor for business data backup and surveillance

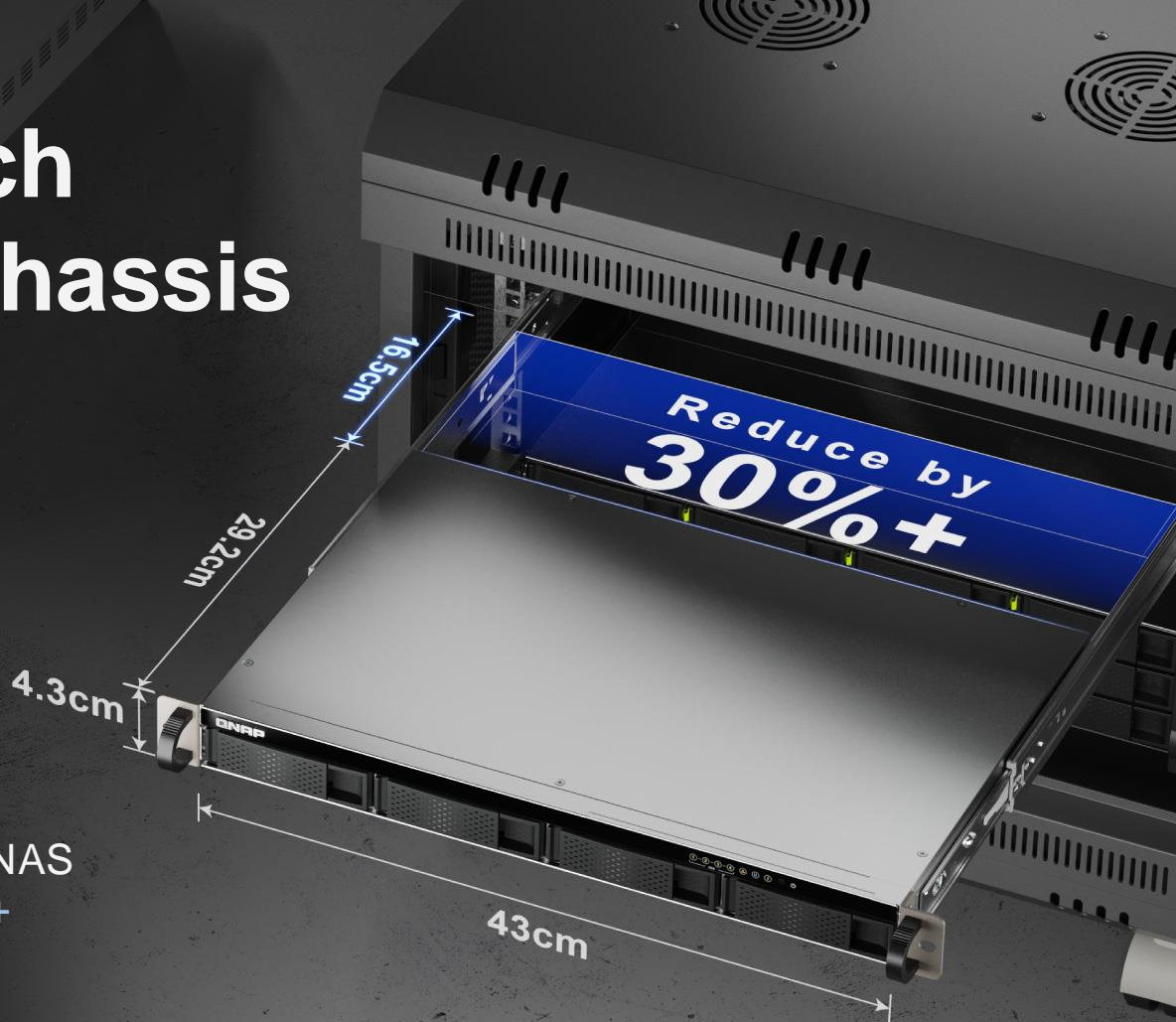# 30-cm / 12-inch short-depth chassis

The chassis is 30% shorter. Easy to setup and transport

30-cm / 12-inch short chassis supports most of the cabinet on the market

short depth

Reduce by 30%+

16.5cm

29.2cm

4.3cm

QNAP

43cm

Compared with 1U rackmount NAS on the market Reduce by 30%+

TS-433eU series short-depth chassis NAS usage scenarios

30-cm / 12-inch short-depth design of the TS-433eU can be installed in the server room or in a standard cabinet with a depth of 23.62 inches. It is suitable for installation in offices, studios, educational institutions, and more:

- For standard 19-inch cabinets following the ANSI/EIA-RS-310-D standard, use the QNAP standard rail (RAIL-B02) for installation
- For short chassis models, the QNAP Short-depth rail (RAIL-S01) is ideal for cabinets with a 600mm (23.62 in) depth
- Alternatively, a 1U cantilever fixed shelf can be used, but ensure it supports at least 10kg for safe installation

Perfect for space-limited edge environments

Network Cabinets/Racks

Media studios, campuses, or small offices can conveniently store short-depth NAS along with network devices in compact cabinets.
(The rails can only be secured if the back of the cabinets can be opened.)

Wall-mounted Network Cabinets

In limited space environments like laboratories or factories, short-depth NAS can be placed in wall-mounted cabinets close to computers or servers, facilitating easier access.

Server Racks

Short-depth NAS can also be placed inside standard server racks in the server room, with the saved space used for cable management.

TS-433eU front view

LED Indicators:
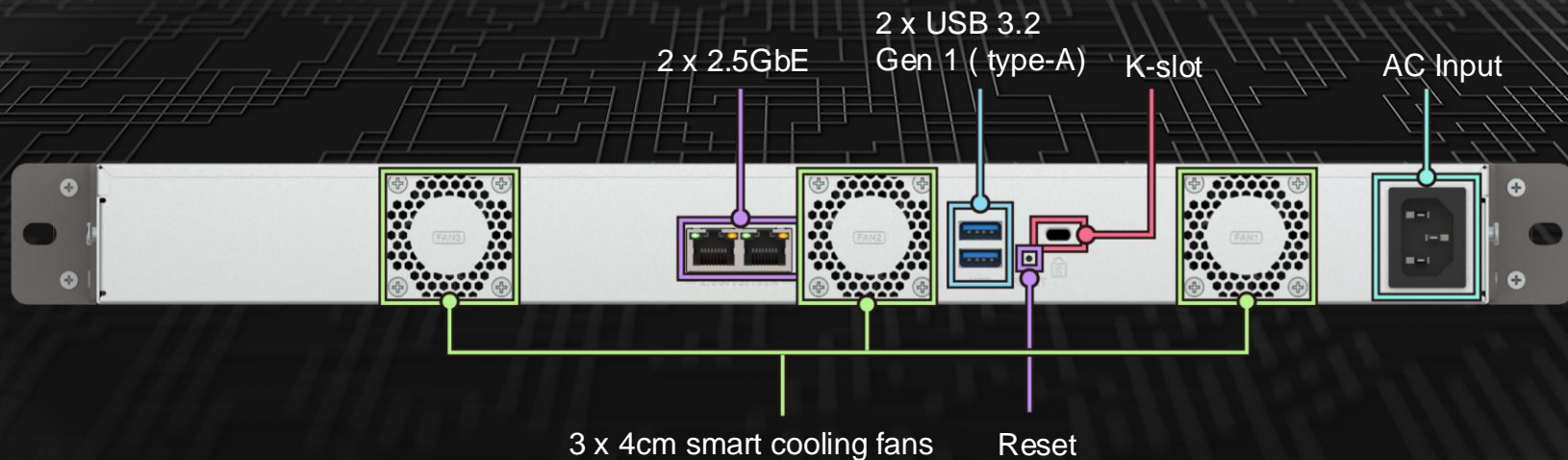Disk status(1-4), Network, System status, USB expansion

Disk slots

Power button

Air Intake hole

TS-433eU rear view

2 x 2.5GbE

2 x USB 3.2
Gen 1 (type-A)

K-slot

AC Input

3 x 4cm smart cooling fans   Reset

TS-433eU Specification

TS-433eU NEW

Operating System	QTS
Form Factor	1U Short Depth Rackmount
CPU	ARM 4-core Cortex-A55 2.0GHz processor
Neural Processing Unit (NPU)	v
System Memory	4GB (not expandable)
Drive Bay(Hot-swappable)	4 x 3.5-inch SATA 6Gb/s, 3Gb/s
2.5 Gigabit Ethernet Port (RJ45)	2
USB 3.2 Gen 1 port	2
Dimensions (HxWxD)	43.3 x 430 x 292.3mm / 1.7 x 16.93 x 11.51 inch
Operating temperature	0 - 40 °C (32°F - 104°F)
Power Supply Unit	Open-frame 100W, Input: 100V-240V ~ / 3.5A, 50Hz-60Hz
Fan	System fan: 3 x 40mm, 12VDC

Optional support for storage expansion units and rails

TL-R400S
4-bay short-depth rackmount SATA JBOD

TL-R1200S-RP
12-bay rackmount SATA JBOD with redundant power supply

TL-R1200C-RP
12-bay rackmount USB 3.2 Gen 2 JBOD with redundant power supply

RAIL-B02
Standard rail kit compatible with ANSI/EIA-RS-310-D

TR-004
4-bay short-depth rackmount USB 3.2 Gen 1 hardware RAID enclosure

RAIL-S01
Short-depth rail kit compatible with ANSI/EIA-RS-310-D

2.5GbE-capable network switch optional

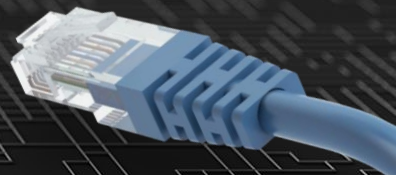**QSW-1108-8T (**Unmanaged Switch)

Fanless 2.5GbE Multi-Gig

QSW-1105-5T (Unmanaged Switch)

Upgraded 2.5GbE without replacing existing cable

QSW-M2116P-2T2S (Managed)
16 x 2.5G Multi-Gig PoE+ /
2 x 10GbE Multi-Gig PoE++ /
2 x SFP+

QSW-2104-2S (Unmanaged**)**
4 x 2.5G Multi-Gig, 2 x SFP+

QSW-M2106-4C (Managed)
6 x 2.5G Multi-Gig /
4 x 10G combo (RJ45 / SFP+)

QSW-M2108R-2C
(Managed Half-Width Rackmount)
8 x 2.5G Multi-Gig /
2 x 10G combo (RJ45 / SFP+)

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

Pre-installed with the new QTS 5.2 NAS operating system

Faster - SMB Transmission

QTS 5.2 significantly improves SMB file transfer speeds, providing optimized, faster, and more stable network connections

Efficient - Data Protection

QTS 5.2 guarantees reliable backups for critical data, with optimized processes that ensure seamless and efficient data recovery

Enhanced - System & Data Security

With strengthened system defenses and enhanced encryption, QTS 5.2 ensures safer data access and protection against potential threats
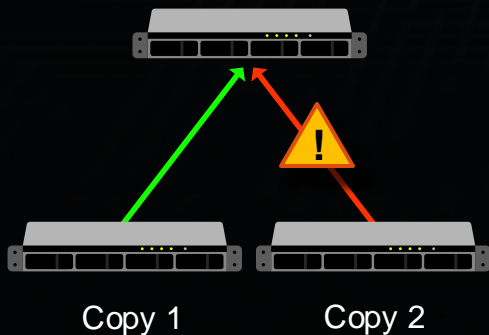
Brand new UI

QTS 5.2 features a brand-new UI, offering a simple and intuitive design. This provides a smooth user experience for easier system management

Higher - Management Efficiency

QTS 5.2 streamlines management tasks, boosting productivity with new features that make administration easier and faster

Backup 3-2-1

The storage industry commonly solution are used three copies of data, two media types, and one copy of the off-site backup.
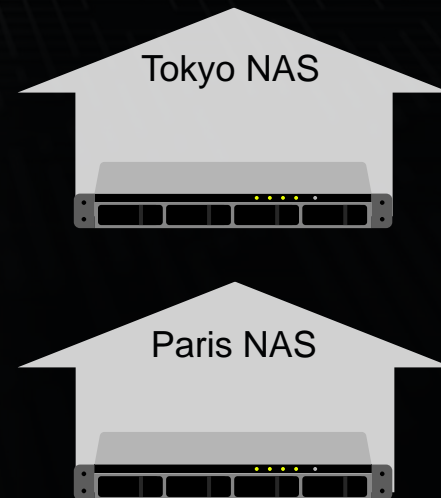
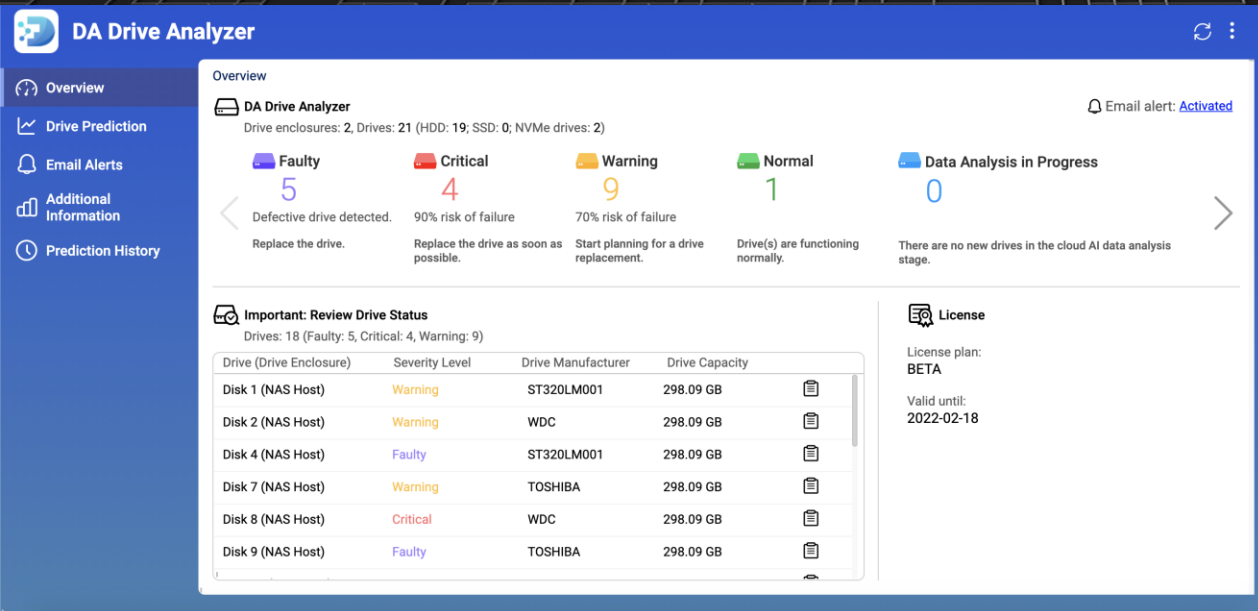| **3** Data copies	**2** Media type	**1** Offsite copy
Copy 1 Copy 2	NAS1 Cloud、USB drive、Laptop.....	Tokyo NAS Paris NAS

DA Drive Analyzer disk failure prediction

Each NAS can perform one disk failure prediction for free, and additional disks can pay a subscription to strengthen protection.

Disk Health Analysis and Failure Prediction

DA Drive Analyzer integrates ULINK cloud AI machine learning inference technology, which can notify you before disk failure, helping you prevent data loss or downtime loss caused by unexpected disk damage.

Subscription link : https://software.qnap.com/da-drive-analyzer.html html
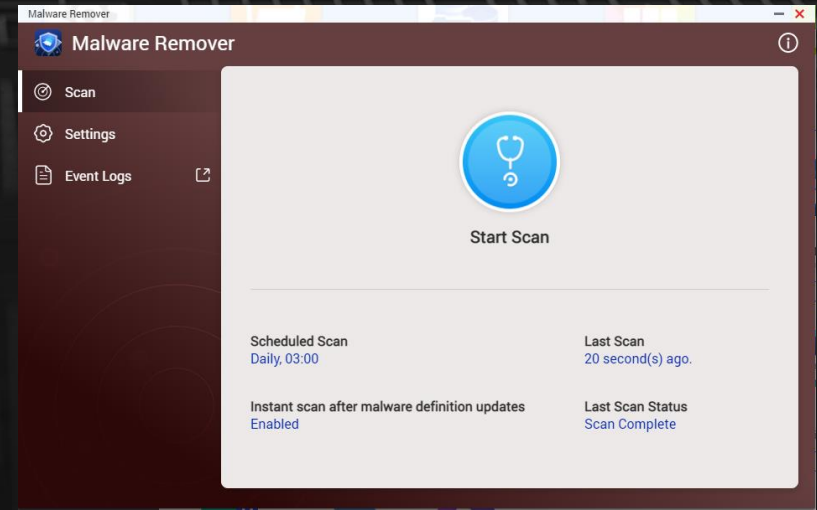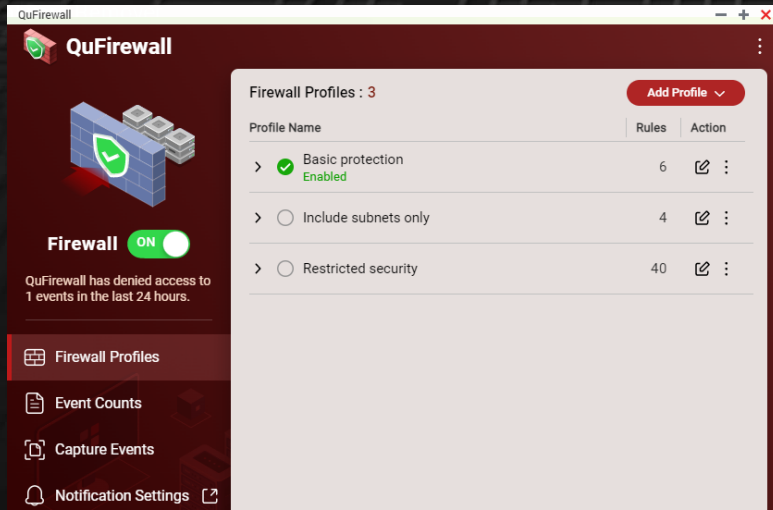
Comprehensive NAS Security Protection

QuFirewall

Protect your NAS from external attacks. You can set rules to allow/deny IP addresses and regions to prevent unauthorized access and brute force attacks for safeguarding data and service security.

Malware Remover

Regularly scan and remove malware from your NAS. For worry-free NAS data security, it is strongly recommended to enable auto-system scanning to ensure your important data is well protected.

QuFirewall — □ + ×

QuFirewall

⋮

Firewall Profiles : 3

Add Profile ⌄

Profile Name	Rules	Action
✓ Basic protection Enabled	6	✎ ⋮
○ Include subnets only	4	✎ ⋮
○ Restricted security	40	✎ ⋮

Firewall ON

QuFirewall has denied access to 1 events in the last 24 hours.

- Firewall Profiles
- Event Counts
- Capture Events
- Notification Settings

Malware Remover — □ ×

Malware Remover

ⓘ

- ◎ Scan
- ⚙ Settings
- 📄 Event Logs

Start Scan

Scheduled Scan
Daily, 03:00

Last Scan
20 second(s) ago.

Instant scan after malware definition updates
Enabled

Last Scan Status
Scan Complete

Qfiling simplified file organization

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!

Customized flexibility
Customize the file organization rules according to the needs, and can do batch editing for multiple files at the same time.
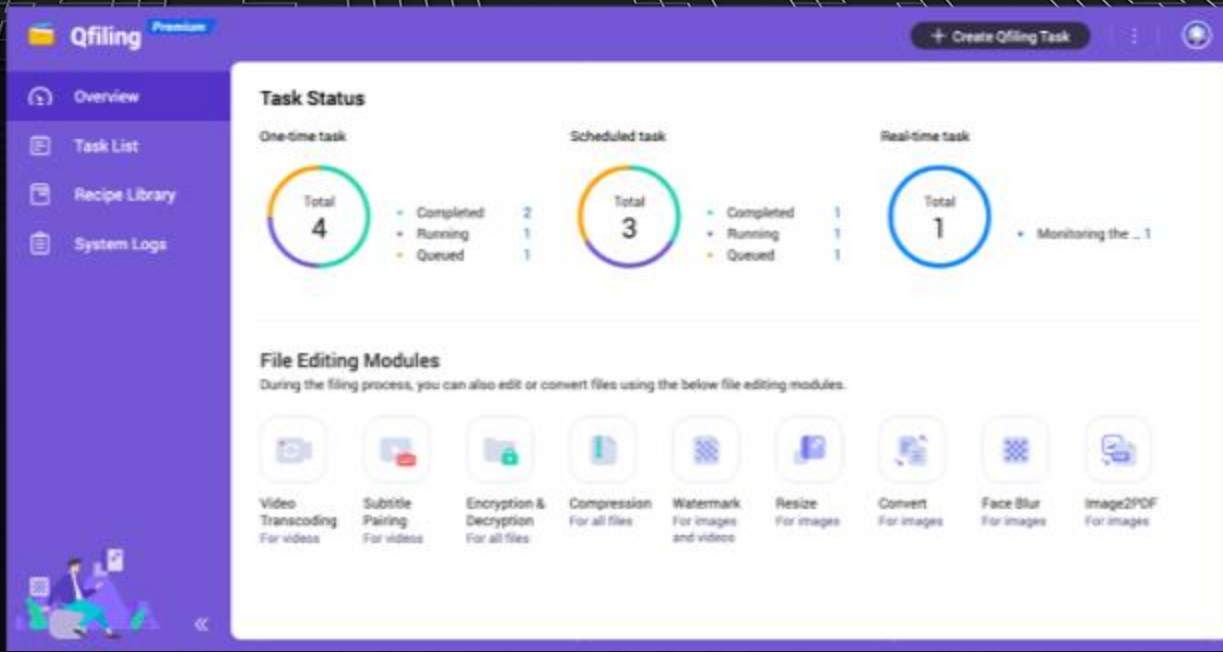
Increase efficiency
Schedule or set real-time tasks

Easily monitoring
System records and file organization status are apparent.

Qfiling Premium

+ Create Qfiling Task

- Overview
- Task List
- Recipe Library
- System Logs

Task Status

One-time task
Total 4
- Completed 2
- Running 1
- Queued 1

Scheduled task
Total 3
- Completed 1
- Running 1
- Queued 1

Real-time task
Total 1
- Monitoring the ... 1

File Editing Modules
During the filing process, you can also edit or convert files using the below file editing modules.

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

Support video streaming and is suitable as a 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.
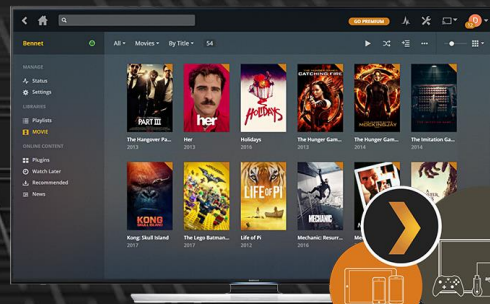
Stream/Transform Multimedia to Various AV Devices with Plex

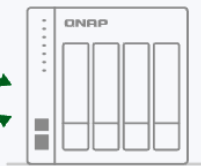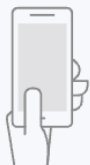Play via Qmedia on Apple TV/Fire TV/Roku/Android TV

QuMagie smart album, automatic face recognition, and object classification

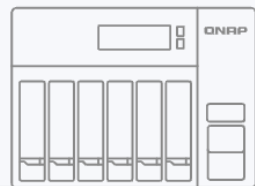# Qsync cross-device file synchronization technology for individual and team collaboration

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.

Centralized management of binding devices to improve security and management efficiency

Sync files to other NAS or cloud with Hybrid Backup Sync

NAS installed Qsync Central App

- 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

Lighter and faster VPN service

- The new QVPN supports **WireGuard VPN**, which is lighter, easier to set up, supports multiple user platforms, and greatly improves the speed. It is an essential tool for enterprise.

- The Kernel layer processes the VPN encrypt packet directly, and the transmission speed is faster.

- Login with key only. (No general account management)

WIREGUARD
FAST, MODERN, SECURE VPN TUNNEL

Container Station

QNAP Container Station (software container workstation) supports LXD and Docker® lightweight virtualization technologies. You can run a full Linux® virtual machine on your QNAP NAS and download thousands of applications from around the world from the Docker® Hub/LXD image server online collection.

At-a-glance dashboard

The dashboard provides a clear overview including the NAS CPU/memory and individual container resource usage.

Flexible user interface

You can enjoy flexible management using either a command line interface or a convenient web interface.

Permission settings

You can set user permissions to access shared folders on the NAS, other containers' data or NAS devices.

QVR Elite / QVR Pro
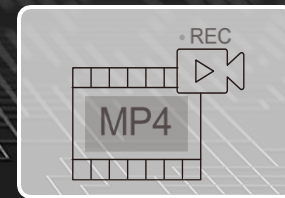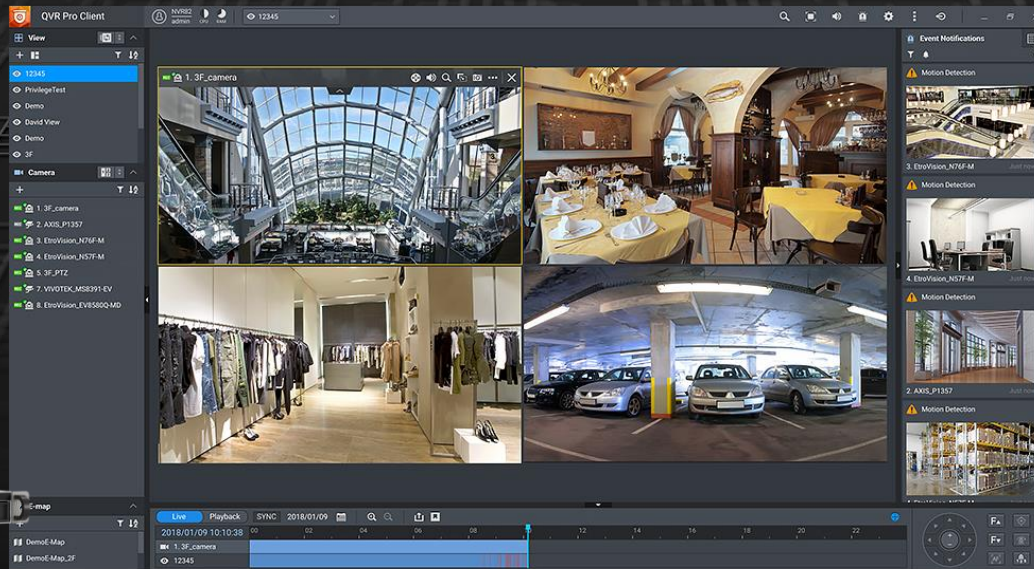# Smart security surveillance solution

QVR Elite

QVR Pro

Standard MP4 format

Flexible subscription plan
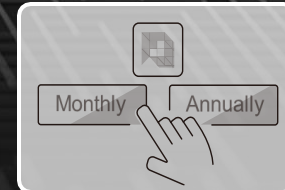
Easy to expand storage capacity

TS-433eU

- QVR Elite: 2 camera channels for free, up to 20 channels with licenses.
- QVR Pro: 8 camera channels for free, up to 12 channels with licenses.

Wide Compatibility with IP Cameras

190+ Brands

GeoVision
VIVOTEK BUILT WITH RELIABILITY
Panasonic
AXIS COMMUNICATIONS
MOBOTIX
Canon
HIKVISION
alhua TECHNOLOGY
Honeywell
Brickcom

95% Cameras

ONVIF Profile support

Onvif® | S

RTSP stream
Input / output

RTMP stream
Input

Smart NPU for AI acceleration
(Neural network Processing Unit)

TS-433eU build-in NPU

The TS-433eU 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.

AI face recognition x6 faster

Extended Warranty for up to 5 years

The TS-433eU comes with a free **3-year** standard warranty. If you require a longer warranty period, you can purchase QNAP's extended warranty service plan, which provides a maximum of 5 years of product warranty and protection.

Extended warranty P/N:

LIC-NAS-EXTW-ORANGE-2Y（Physical packaging）

LIC-NAS-EXTW-ORANGE-2Y-EI（Software Store）

TS-433eU

Compact and Efficient Storage, Tailored for Office Data Protection