

QNAP

TS-262 / TS-462

Intel Celeron N4505 Dual-Core 2.5GbE Multimedia NAS with M.2 PCIe slots and PCIe expandability, ideal for home users to maximize their digital lifestyle



Qsync

myQNAPcloud



2.5GbE 2-bay TS-262 / 4-bay TS-462 for home users to enjoy digital life

- Conveniently access files, data and multimedia stored in the NAS from all connected devices.
- Equipped with a 2.5GbE network port and HDMI 2.0 port for smooth multimedia streaming.
- Clean white-color housing with champagne gold tone for an aesthetic and functional design



Latest Intel CPU, "Jasper Lake", with integrated GPU for transcoding and HDMI 4K output



Intel Celeron N4505

Dual core, 2.0 GHz burst up to 2.9 GHz

Video output



Up to 4K

Transcoding



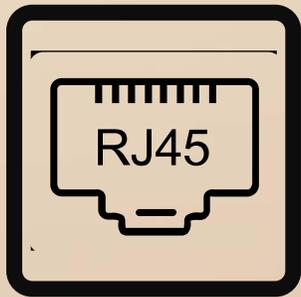
Support 4K H.264 transcoding

Intel UHD Graphics

Support 4K @60Hz output and H.264 hardware transcoding



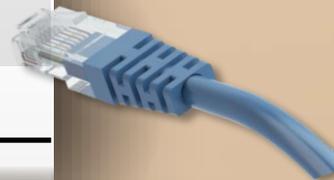
2.5 GbE for home user breaks the traditional Gigabit barrier



2.5 GbE Network port

The TS-262 & TS-462 have a single 2.5GbE RJ45 LAN port which supports existing CAT5e LAN cables.

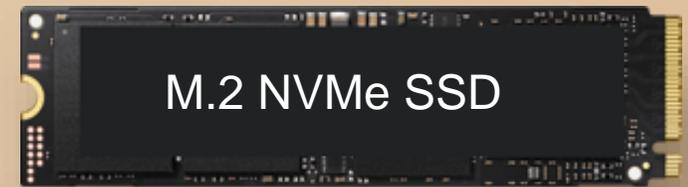
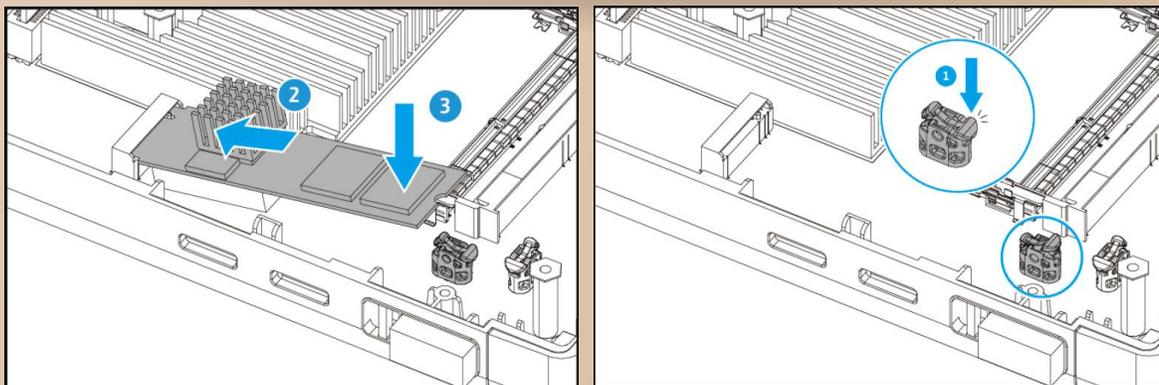
	CAT 5e	CAT 6	CAT 6A
100MbE	✓	✓	✓
1GbE	✓	✓	✓
2.5GbE	✓	✓	✓



Offer M.2 PCIe Gen3 slots for SSD tiering/caching or edge acceleration



- **3-step installation, supports M.2 2280 PCIe Gen3 x1**
 - M.2 NVMe SSD
 - Coral Edge TPU
- **Toolless installation**



M.2 NVMe SSD cache for improved performance at a lower cost

Especially useful for RAID 5/6 and applications dealing with small files or concurrent user access.

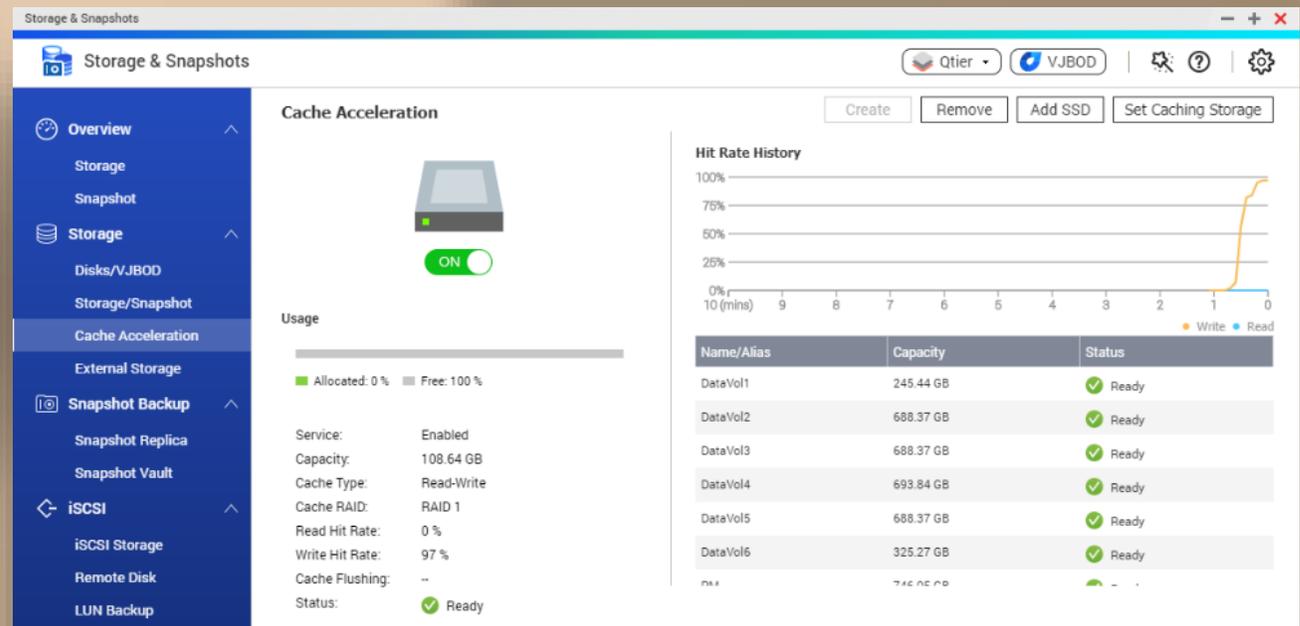
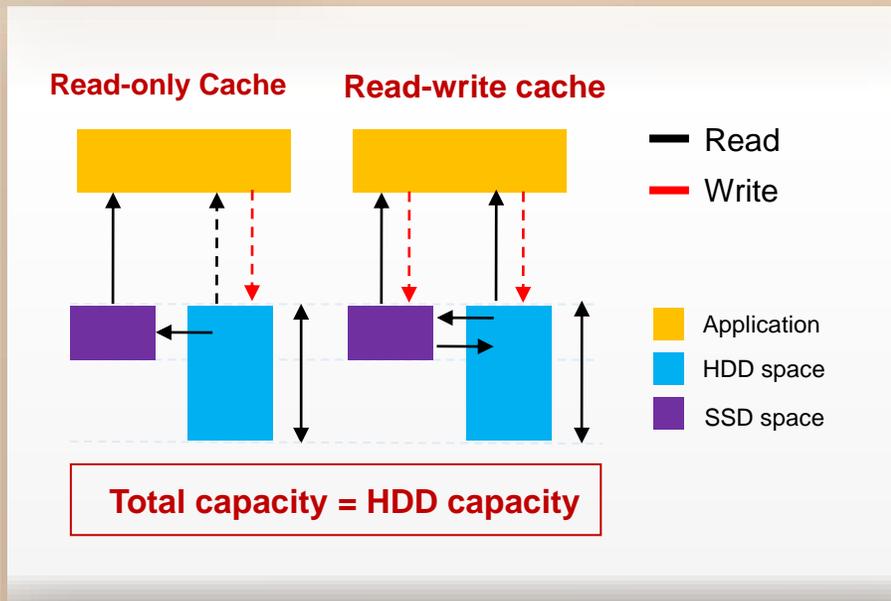
Improves I/O latency

For IOPS-demanding apps

Global SSD cache

Can share a single SSD volume/RAID with all volumes/iSCSI LUNs for a read-only or read-write cache.

QTS NAS	
	QTS 5.0.0 (and later)
SSD Cache Capacity	RAM Requirement
512GB	-
1TB	≥ 2 GB
2TB	-
4TB	≥ 4 GB
16TB	≥ 8 GB (x86 CPU)



Qtier™ Drives Auto-Tiering constantly optimize data across storage tiers

Qtier Engine

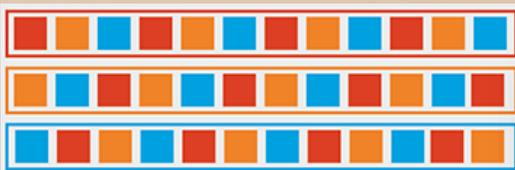


- Automatically moves hot data to high-performance drives and cold data to lower-cost, higher-capacity drives.
- Unlike SSD cache, the SSD capacity in Qtier can be used to store data.

01

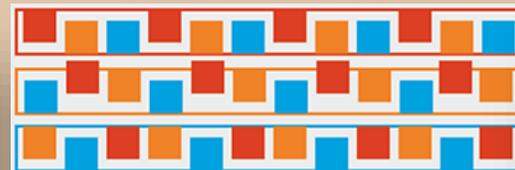
Before tiering

Frequently accessed data is not optimized



02

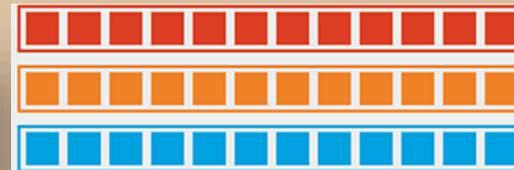
Start data tiering



03

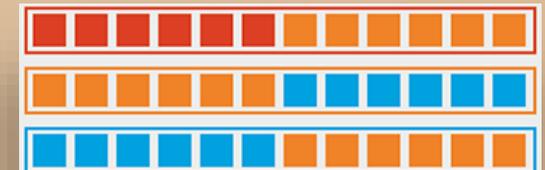
After tiering

Data is optimized



04

Changes in data access pattern



Support HDMI 4K output



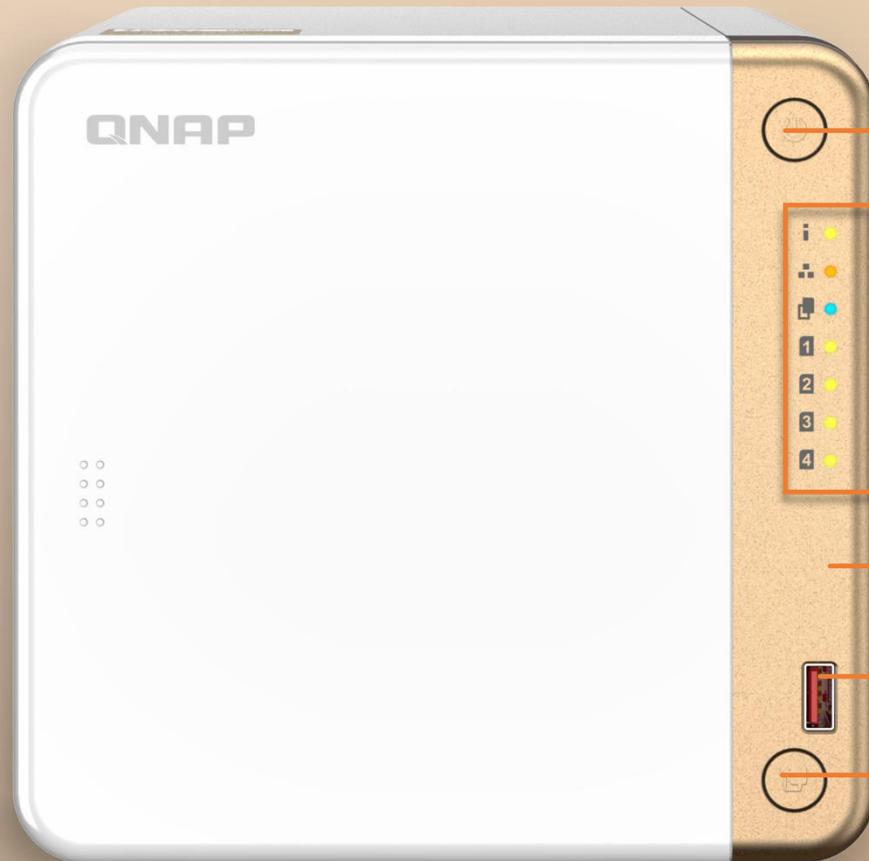
HDMI output for 4K resolution

With HDMI output, the TS-262 / 462 allows you to directly enjoy multimedia content, use web browsers, manage your NAS, or watch recorded surveillance footage or live feeds on your NAS.



Front view of new TS-262 / TS-462

TS-462



Power button

LED indicators :
Status 、 LAN 、 USB Copy
Disk#1~#4
Disk#1~#2 (TS-262)

IR Receiver

Optional RM-IR004
remote control accessory

USB 3.2 Gen2 (10Gbps)

USB One-Touch-Copy

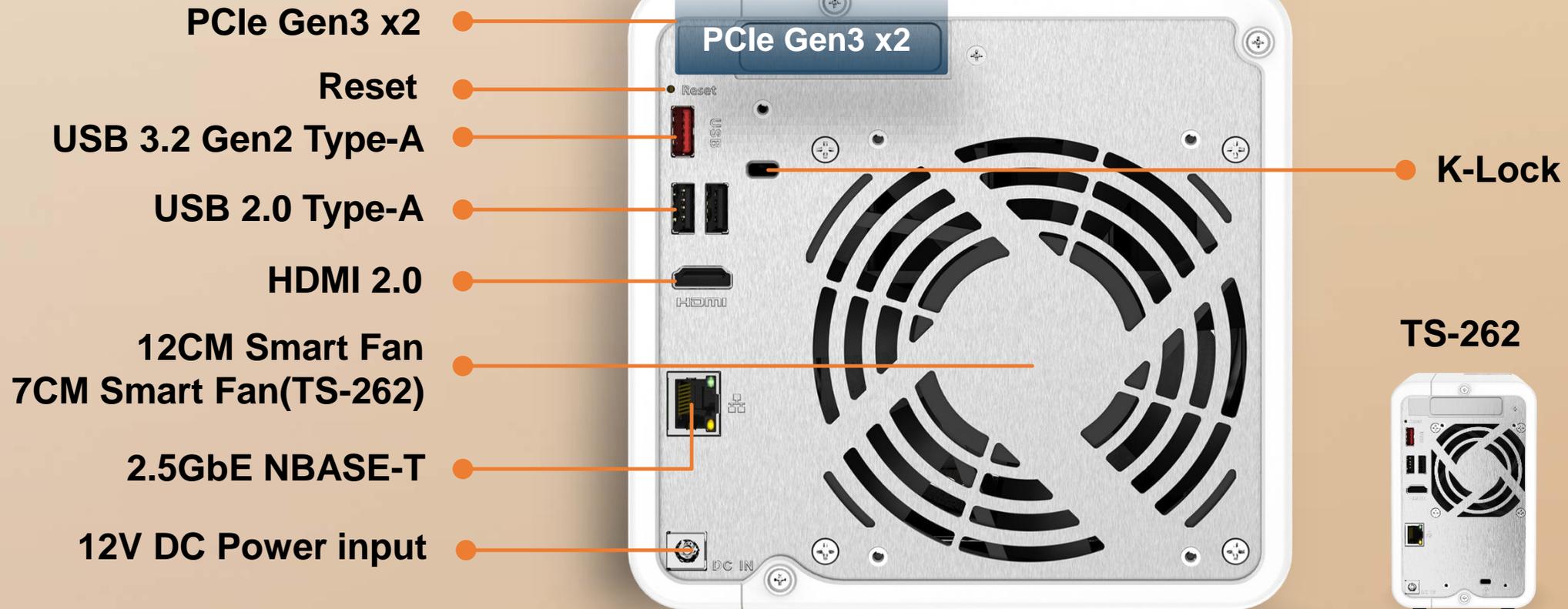


TS-262



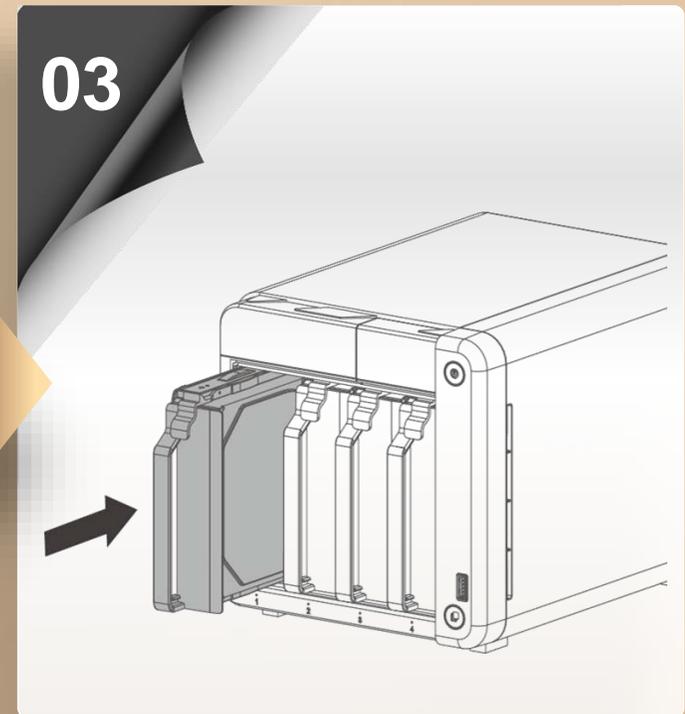
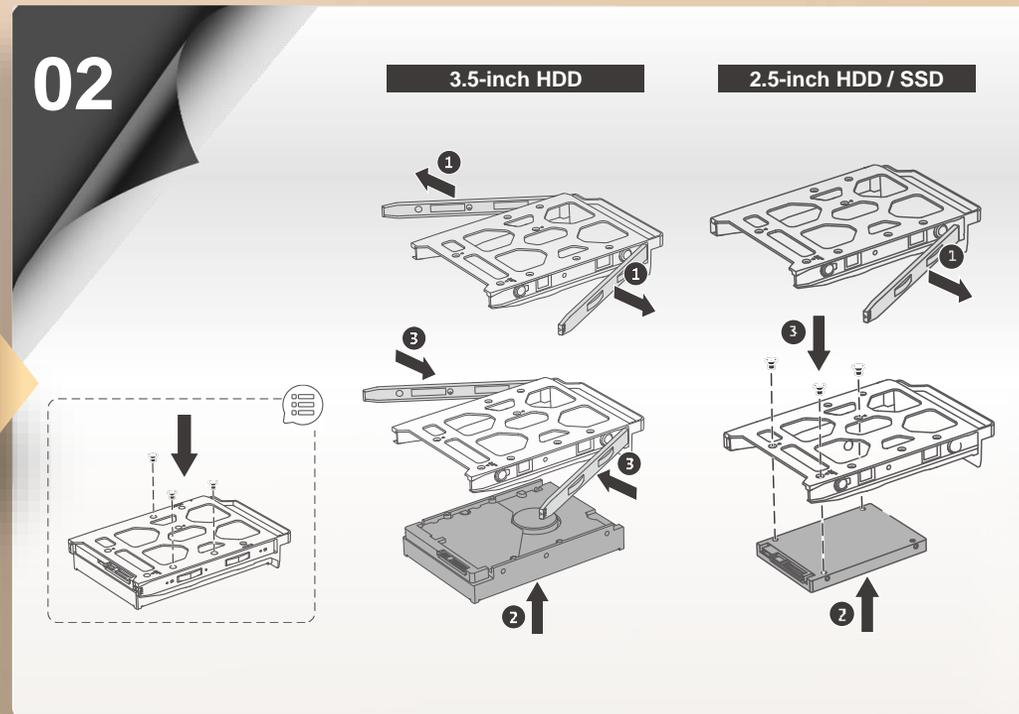
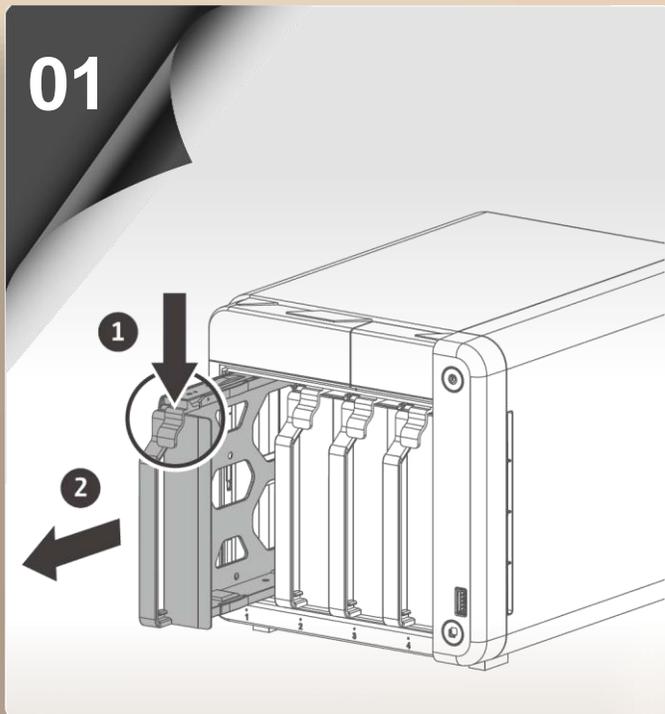
Rear view of new TS-262 / TS-462

TS-462



Easy to install HDDs and SSDs

Install 3.5-inch without tools , easy to
install 2.5-inch SSD also



Specification of TS-262 / TS-462



Model	TS-262	TS-462	TS-462
SKU	TS-262-4G	TS-462-2G	TS-462-4G
CPU	Intel® Celeron® N4505 2-core/2-thread processor, burst up to 2.9 GHz		
Default Memory	4GB Onboard , non-expandable	2 GB SO-DIMM DDR4 (1 x 2 GB), Max 16GB (2 x 8GB)	4GB Onboard , non-expandable
Maximum Memory	4GB	16GB	4GB
Bay count	2	4	4
M.2 SSD slots	2 x M.2 2280 PCIe Gen3 x1 slot		
Ethernet	1x 2.5GbE NBASE-T		
HDMI	1 x HDMI 2.0 (4K @60Hz)		
PCIe	1 x PCIe Gen3 x2 slot		
USB	2 x USB 3.2 Gen2 Type-A (10Gbps) + 2 x USB 2.0		
External adapter	65W	90W	

PCIe 3.0 slot for various 5GbE & 10GbE PCIe NICs



For more please check compatibility list
<https://www.qnap.com/en/compatibility/?model=598&category=11>

QXG-2G1T-I225

1 x 2.5G/1G/100M/10M Port

QXG-2G2T-I225

2x 2.5G/1G/100M/10M Ports

QXG-5G1T-111C

1 x 5G/2.5G/1G/100M Port

QXG-5G2T-111C

2 x 5G/2.5G/1G/100M Ports

QXG-10G1T

1 x 10G/5G/2.5G/1G/100M Port

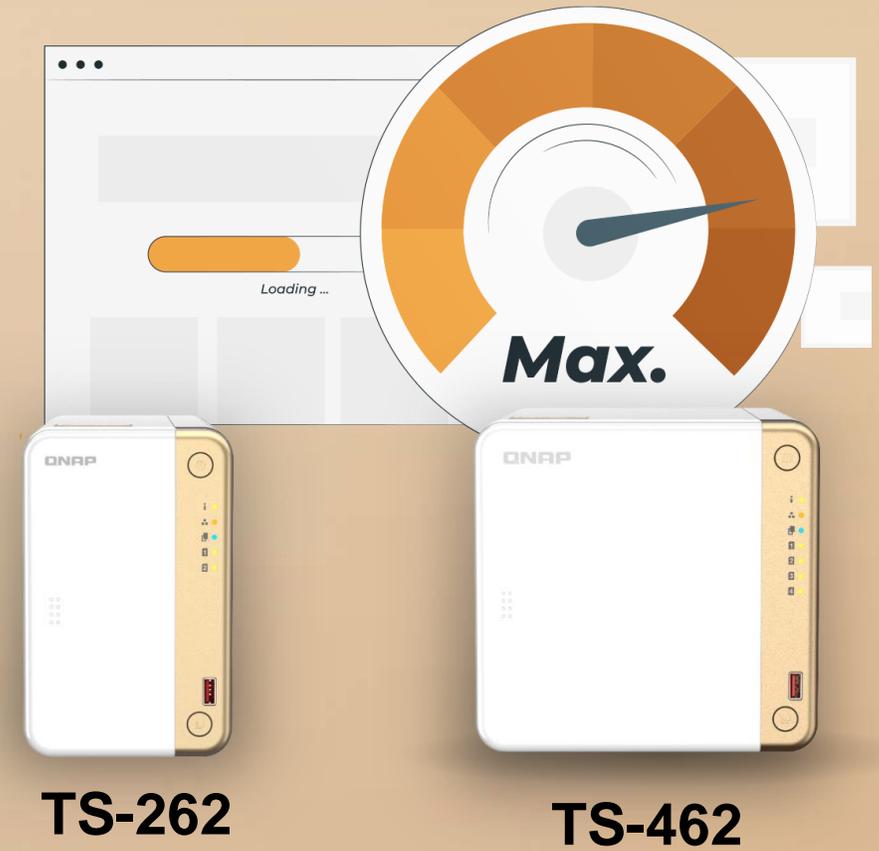
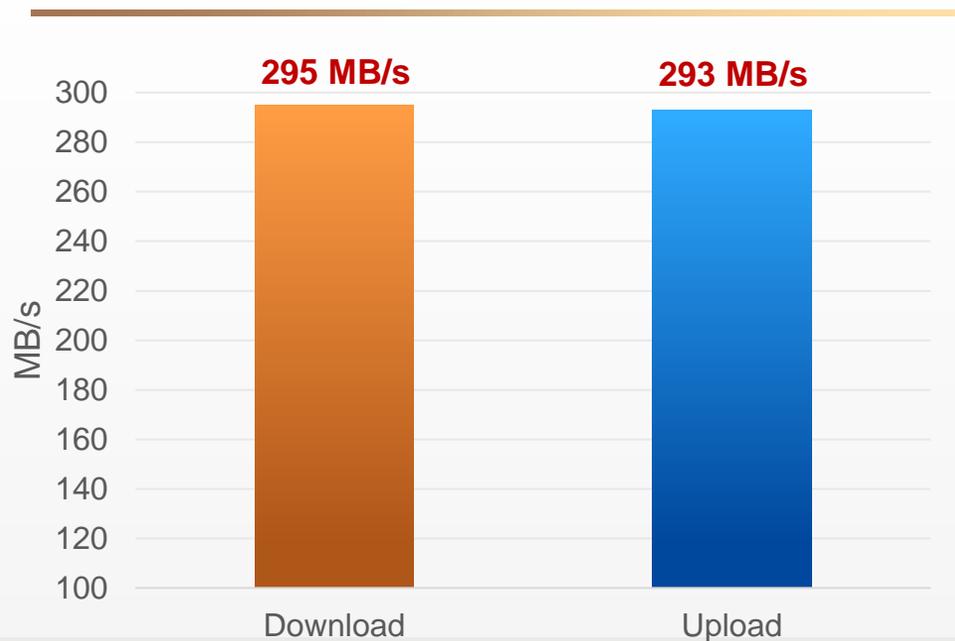
QXG-10G2TB

2x 10G/5G/2.5G/1G/100M Ports



Full 2.5GbE Ethernet performance for 2.5X faster file transfer

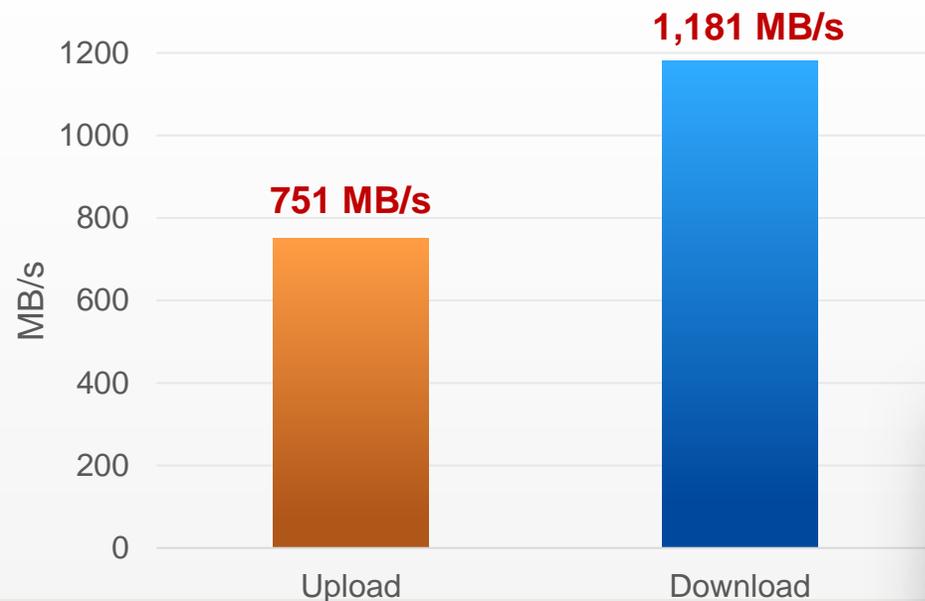
1 x 2.5GbE File Transfer



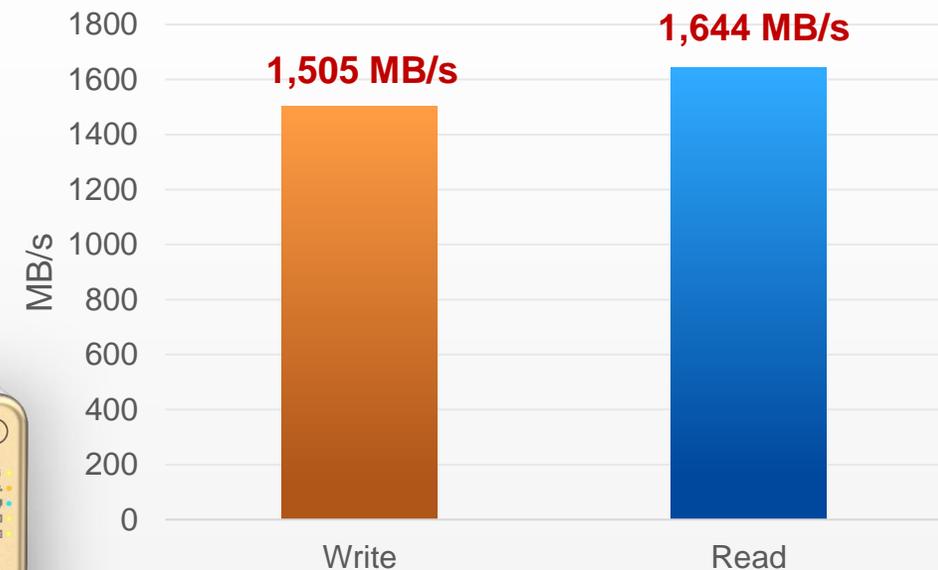
Tested in QNAP Lab:
NAS: TS-462; 4GB DDR4; 4 x Samsung 860 EVO 1TB SSD; RAID5
PC: Intel Xeon W-1250 3.3GHz; 32GB RAM; QXG-2G4T-I225; Windows Server 2019

TS-262: optional 10 GbE for high-speed network transmission

1 x 10GbE Windows File Transfer



2 x 10GbE SMB Sequential Throughput



Test environment:

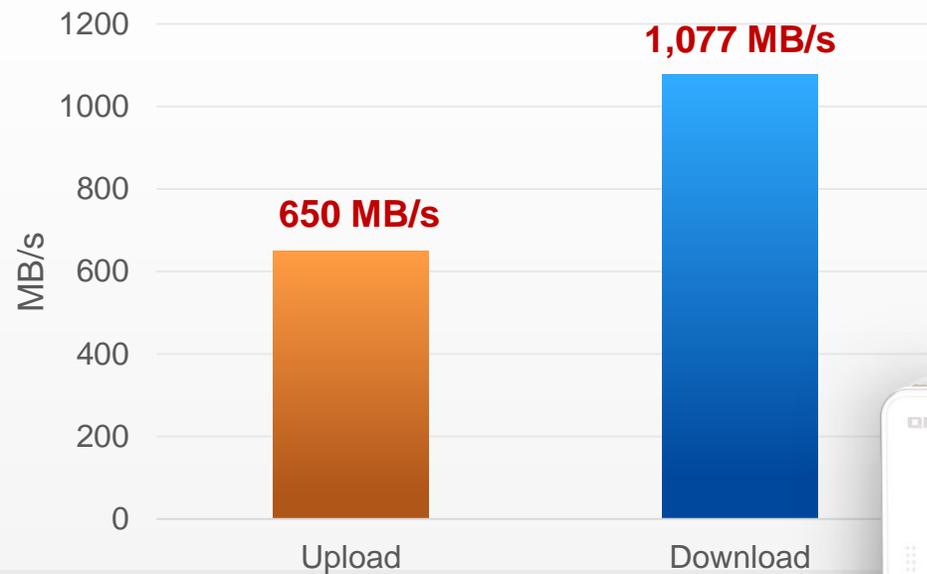
NAS | TS-262-4G, QTS 5.0.0, 2 x Samsung 860 Evo 1TB SSDs, RAID 1, thick volume

Client PC | Intel i7-6700 3.4GHz, 64GB RAM

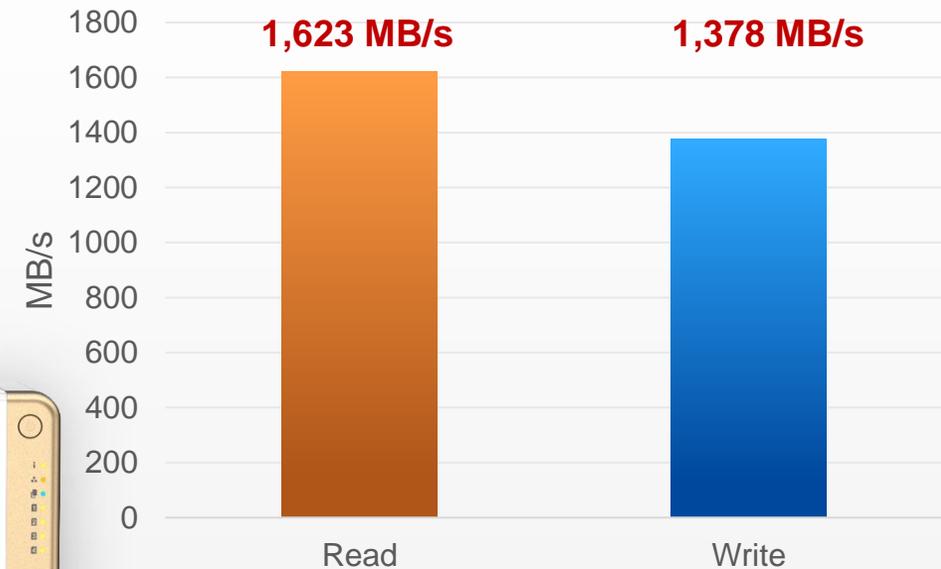
IOmeter | RAM*4, 30-sec ramp up time, 3-min seq. run time, 1 worker, 32-outstanding

TS-462: optional 10 GbE for high-speed network transmission

1 x 10GbE Windows File Transfer



2 x 10GbE SMB Sequential Throughput



Test environment:

NAS | TS-462, QTS 5.0.0, 4 x Samsung 850 Pro 512GB SSDs, RAID 5, thick volume
Client PC | Intel i7-6700 3.4GHz, 64GB RAM

TS-262 / TS-462 LIVE DEMO



Optional Support USB / SATA JBOD & RAID Storage Expansion Unit

USB



TR-002



TR-004



TL-D800C



TR-004U



TL-R1200C-RP

Maximum of JBOD / RAID expansion enclosures

TR-002	2
TR-004	2
TR-004U	2
TL-D800C	2
TL-R1200C-RP	2
TL-D400S	1
TL-D800S	1
TL-D1600S	1
TL-R400S	1
TL-1200S-RP	1

SATA



TL-D400S



TL-D800S



TL-D1600S



TL-R400S



TL-R1200S-RP

QNAP enclosure supports 2 modes on NAS

- TS-262 / TS-462 supports up to two QNAP TR or TL enclosures.
- Internal mode with storage pool support or external mode with cross-platform compatibility with Windows/Mac computers.

Mode 1: Expanding the NAS with a new volume

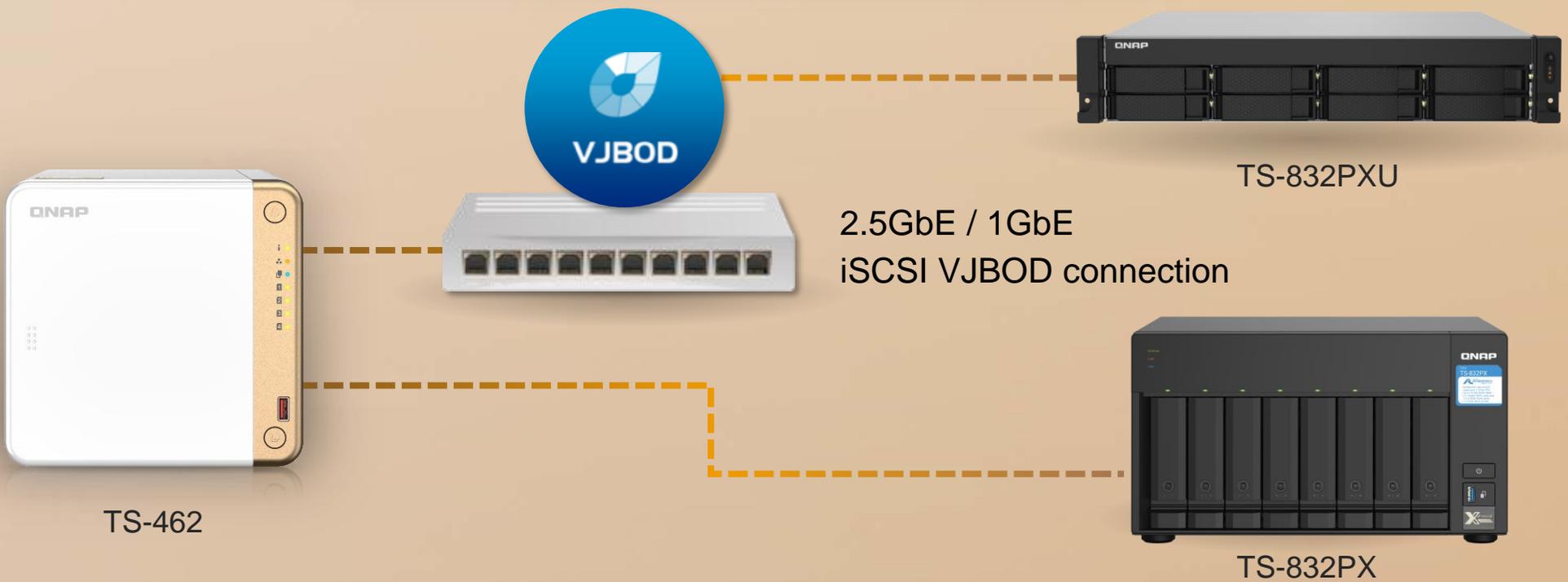


Mode 2: Work as a backup destination for snapshot replica



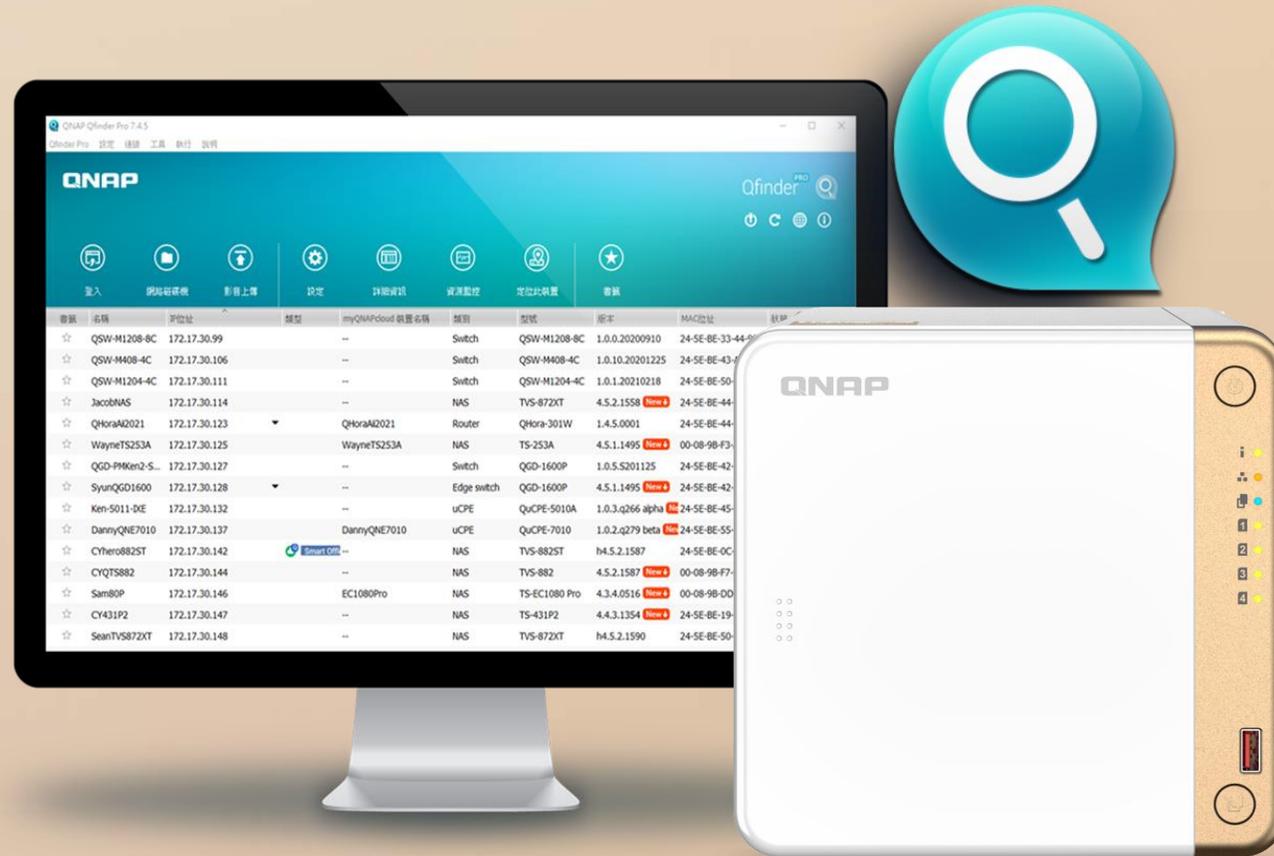
Use Virtual JBOD to expand NAS capacity

Max. 8 VJBOD connections



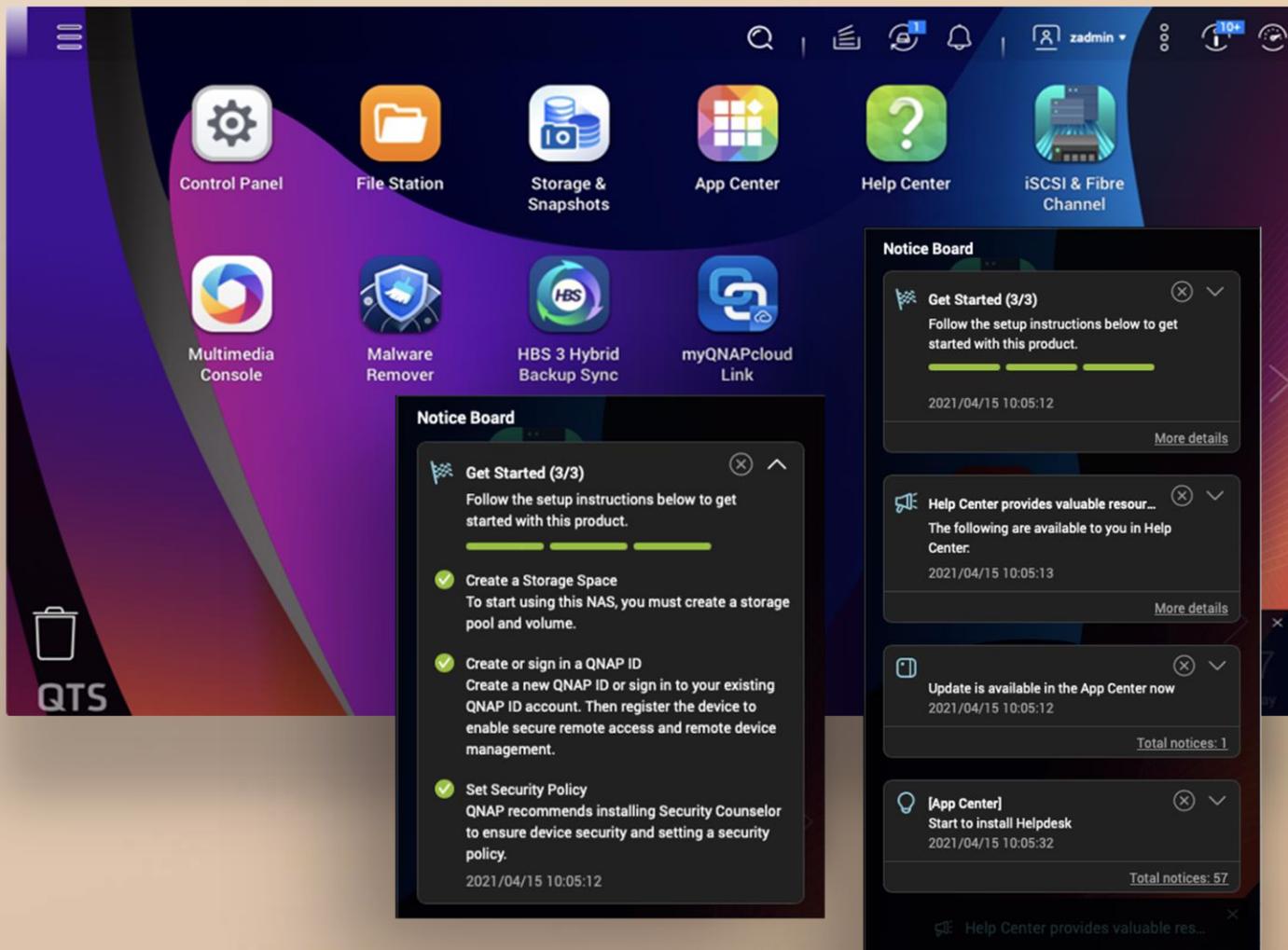
Qfinder Pro

Helps you find, connect and set your NAS



- **Connect to the NAS via Qfinder Pro for initial setup**
- **Search and connect to the NAS under the same network IP to operate**

Support the latest QTS 5.0.1 NAS operating system

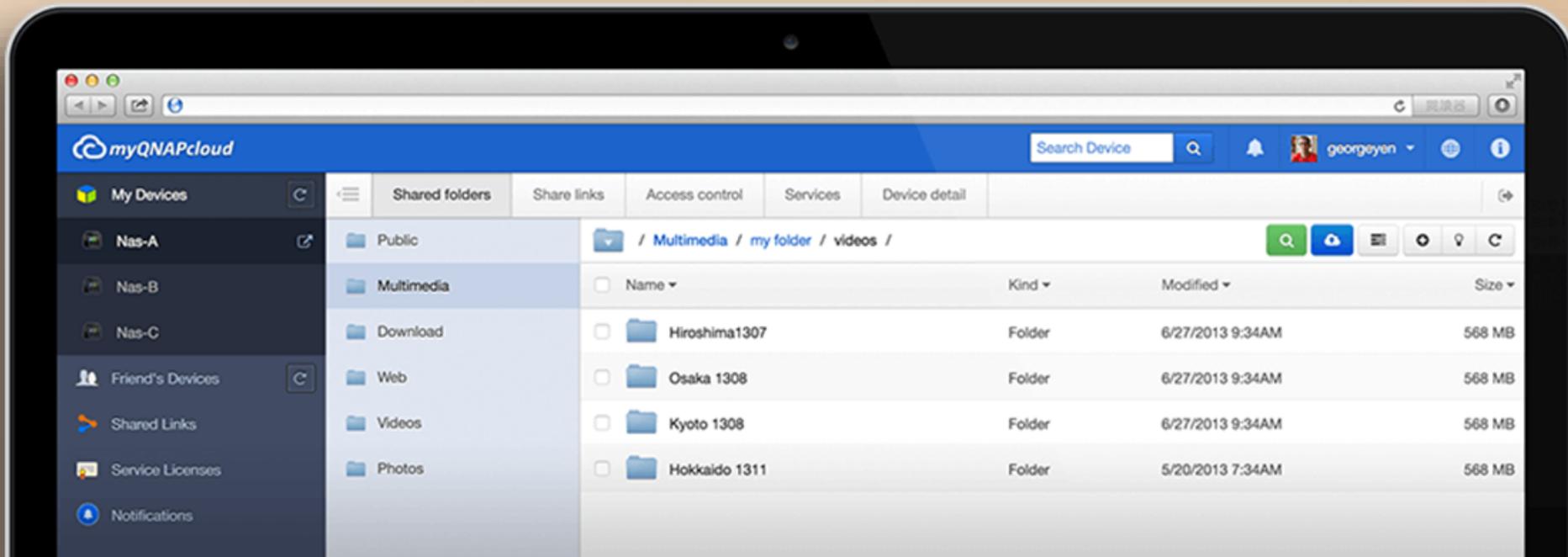


- Support the latest transport layer security protocol TLS 1.3, with better security and faster speed
- Optimize the QTS UI , and the notification panel will pop up the instructions at any time
- Improve NVMe SSD cache performance , reducing memory workload
- Faster WireGuard VPN service for fast and secure connection

Access and share data anytime with myQNAPcloud

Remote connection

Support both Email and Mobile phone number to registration and login

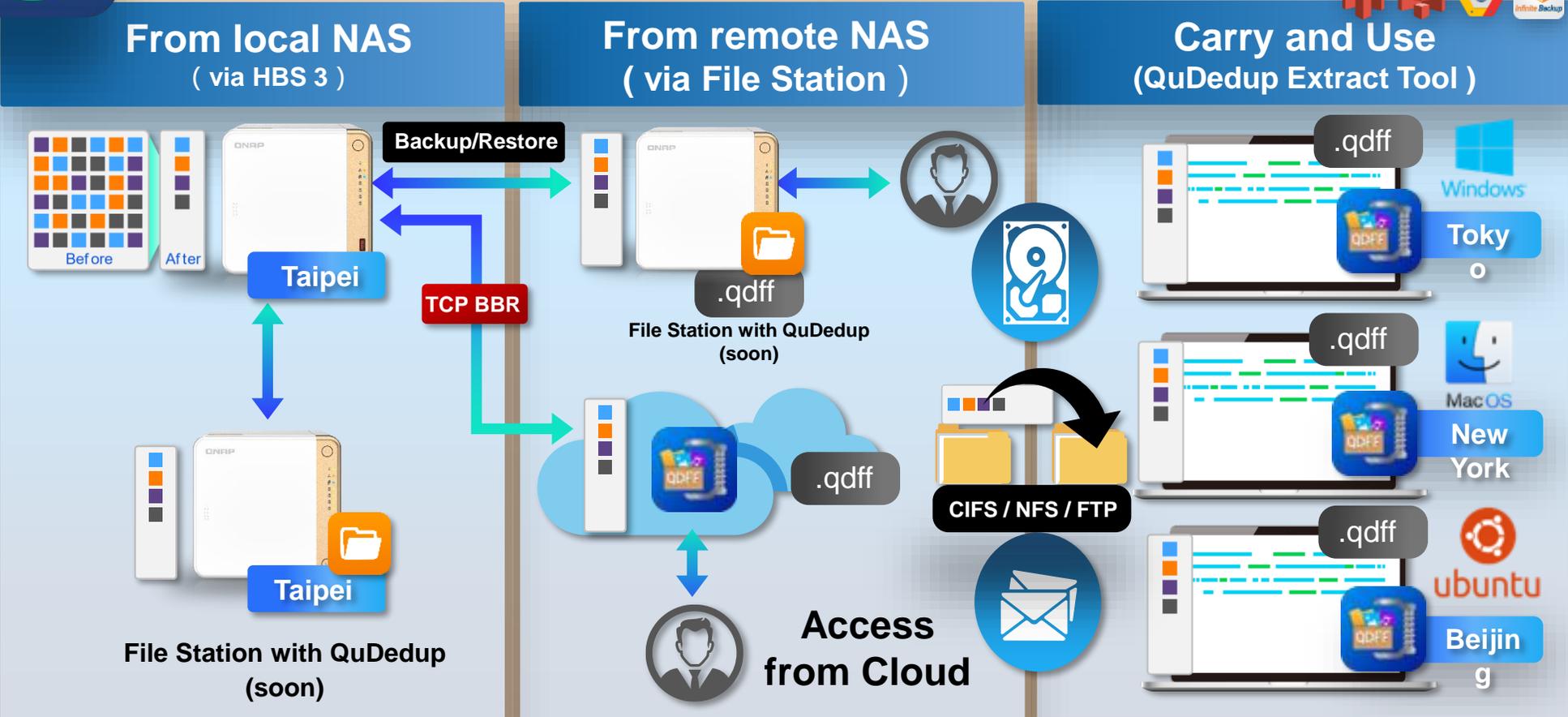


Backup data with deduplication



HBS 3 (Hybrid Backup Sync 3)

Keep 3 copies, on 2 types of storage, and store 1 copy off-site to ensure your data safety



DA Drive Analyzer , Predict Drive Failure and Minimize Downtime



1 free disk prediction per NAS
Paid subscription for additional disks for added protection

The screenshot shows the DA Drive Analyzer web interface. The top navigation bar is blue with the product name and a refresh icon. A left sidebar contains menu items: Overview, Drive Prediction, Email Alerts, Additional Information, and Prediction History. The main content area is titled 'Overview' and displays a summary of drive health. It shows 5 Faulty, 4 Critical, 9 Warning, and 1 Normal drive. Below this is a table of drive status and a license section.

Overview

DA Drive Analyzer Email alert: [Activated](#)

Drive enclosures: 2, Drives: 21 (HDD: 19; SSD: 0; NVMe drives: 2)

Severity	Count	Description
Faulty	5	Defective drive detected. Replace the drive.
Critical	4	90% risk of failure. Replace the drive as soon as possible.
Warning	9	70% risk of failure. Start planning for a drive replacement.
Normal	1	Drive(s) are functioning normally.
Data Analysis in Progress	0	There are no new drives in the cloud AI data analysis stage.

Important: Review Drive Status
Drives: 18 (Faulty: 5, Critical: 4, Warning: 9)

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

License

License plan: BETA

Valid until: 2022-02-18

Predict Drive Failure and
Minimize Downtime

DA Drive Analyzer integrates ULINK cloud artificial intelligence technology, which can notify you before disk failure, helping you prevent data loss or downtime loss caused by unwarranted disk damage.

Snapshots Help You Fight with Ransomware Threats

TS-262 / 462 supports Snapshot , like taking a photo - within seconds the complete status of your NAS system and data is recorded.

Mitigate the growing threat of ransomware

Step 1

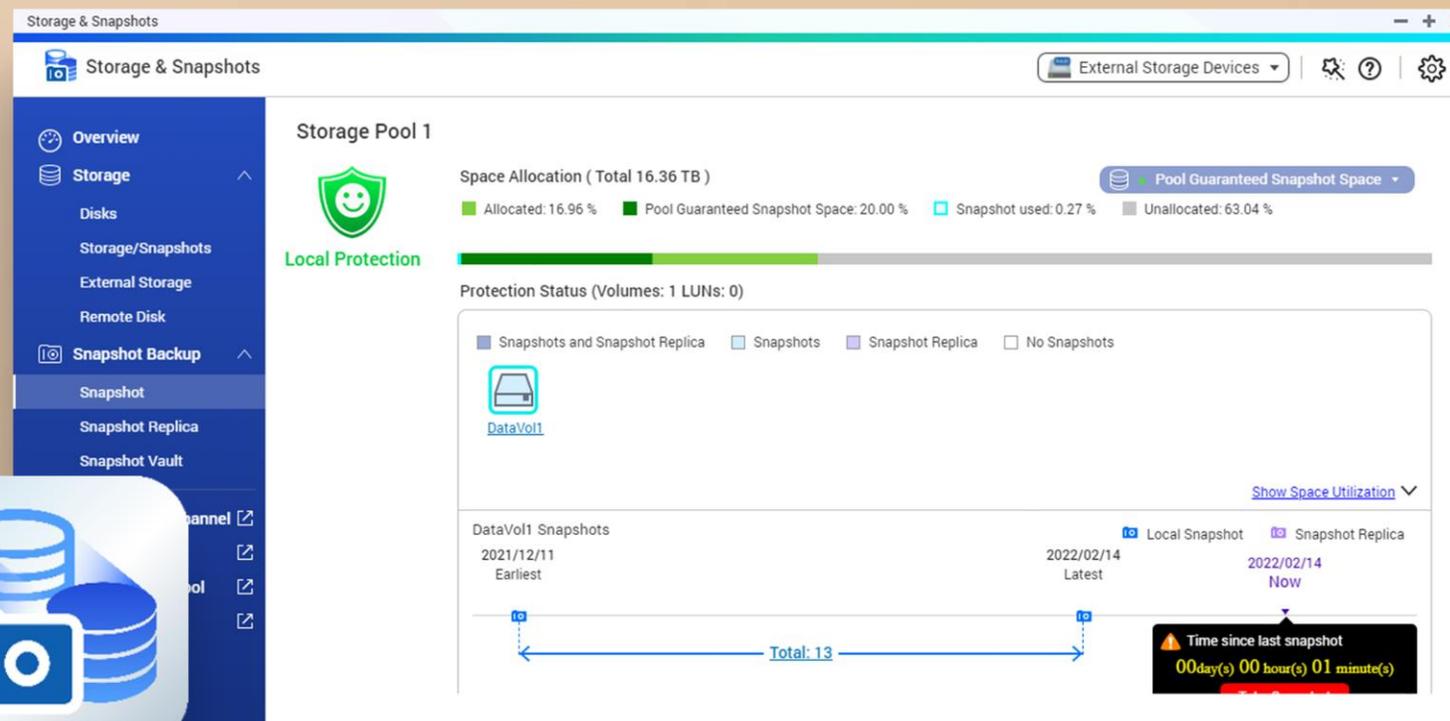
Regularly update, and use Malware Remover

Step 2

Routinely back up to your NAS, and create multi-version snapshots

Step 3

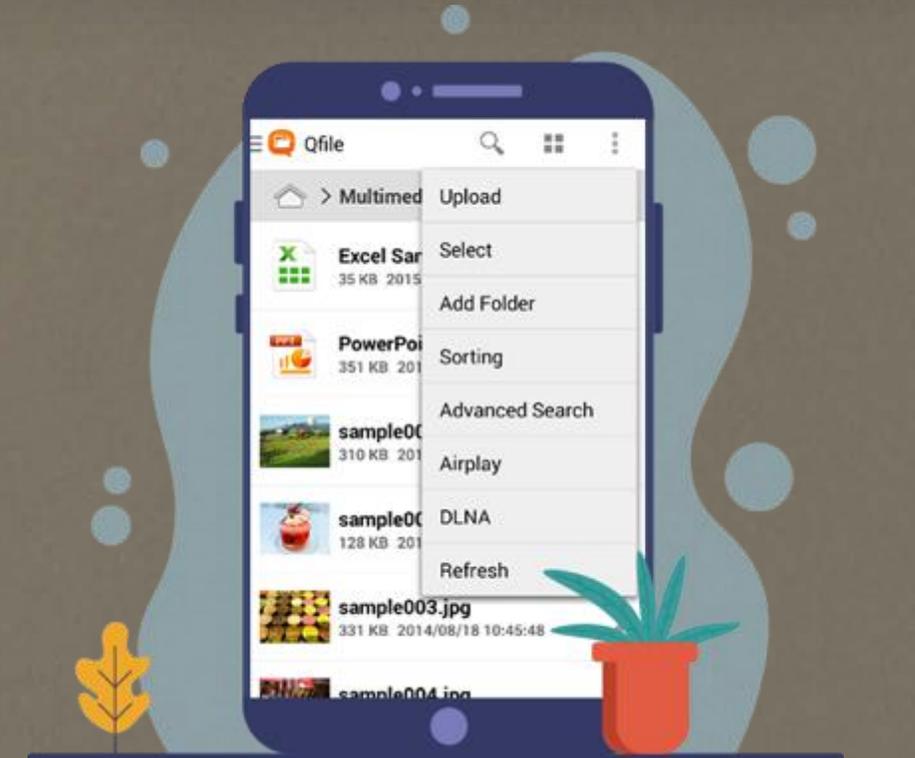
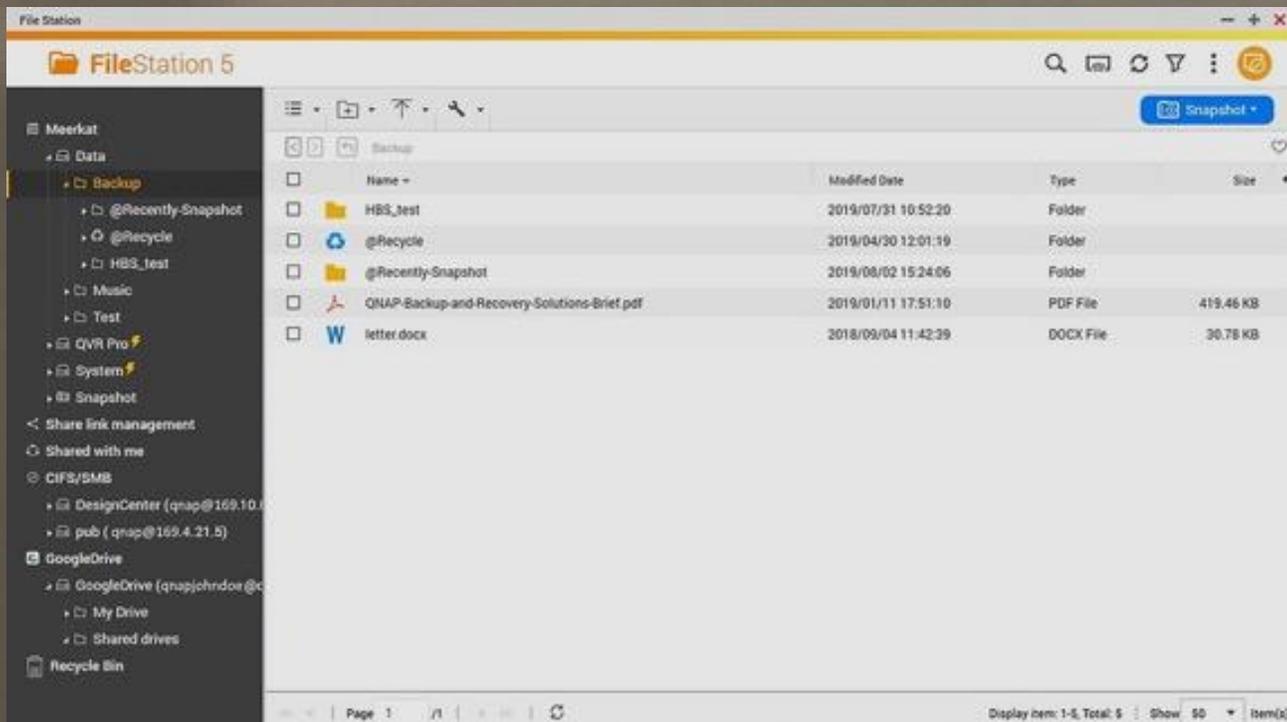
Back up snapshots to another QNAP NAS



File Station – Multifunctional file browser



File Station not only allows you to manage the files stored in the NAS, but also the files on the cloud space can be easily managed. Through simple and intuitive operations, you can quickly upload files from devices such as computers, drag and drop files between different folders, delete files, and set file and folder permissions to protect important data from prying eyes.



Manage your files with the Qfile mobile app

Intelligent and automated file management



Qsirch 5

Google™ like Search Tool for NAS

- Enables you to find files based on filename, content, and metadata.
- Can choose from a variety of search options to quickly find documents, images, videos, emails, and other NAS-based files.
- Available using a companion mobile app, browser extension, and Mac® Finder



Qfiling 3

All you need to do is categorize your files, set a schedule !



- 2 tasks : Archive task \ Recycle task
- 3 types of setting : one-time \ Scheduled \ Real-time
- 9 editing modules : Such as Face Blur \ Video transcoding \ Encryption & Decryption...

QNAP meets all needs for File Management



File Station



OCR Converter



Qsirch



Qfiling



Store and backup

File Digitization

Search

Archive



With OCR Converter, Qsirch can search for image context.



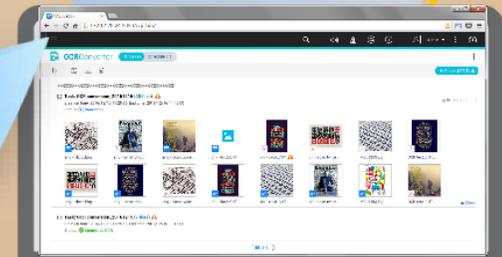
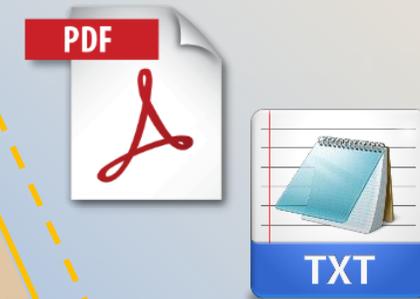
OCR: Best solution for document digitization

Picture with text

Searchable documents



- ✓ Search
- ✓ Edit
- ✓ Archive



◆ PCIe expandability for additional NAS functionality • Powerful transcoding and 4K HDMI output

The TS-x53B series comes with a PCIe slot, offering extreme flexibility for users to install a QM2 card, 10GbE network expansion card, or wireless network card for greater application potential.

◆ USB type C QuickAccess port for direct file access
The TS-x53B series features a USB-C QuickAccess port to simplify NAS setup and to allow direct access to files without needing a network connection.

◆ PCIe expandability for additional NAS functionality

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◆ USB type C QuickAccess port for direct file access

The TS-x53B series features a USB-C QuickAccess port to simplify NAS setup and to allow direct access to files without needing a network connection.

◆ Powerful transcoding and 4K HDMI output

The TS-x53B series supports 4K hardware decoding and 4K H.264 video transcoding for a high-quality audiovisual experience.

◆ QTS-Linux Combo NAS for centralized storage and IoT applications

The TS-x53B series integrates two operating systems to host an ideal IoT platform with near-limitless containerized apps to empower developers.

Faster image identification with integrated Intel® OpenVINO™ AI engine.



QuMagie

Organize photos with similar faces using facial recognition

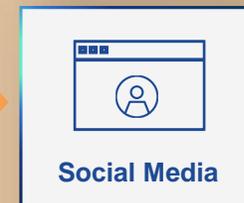
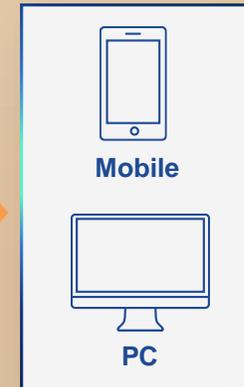


Upload, Back-up
Photos



Browse,manage Photos

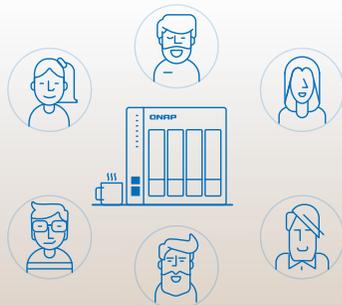
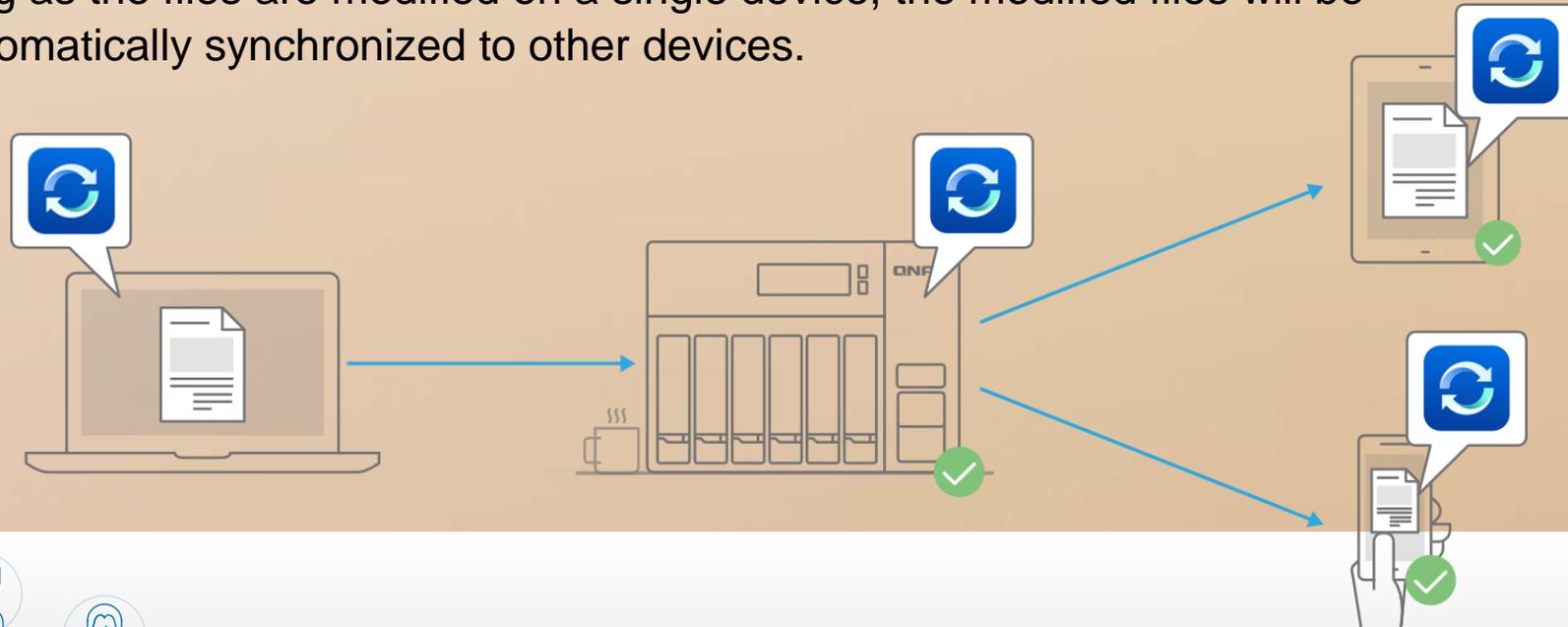
Share Photos



Qsync , Cross-device file sync for individuals and teams

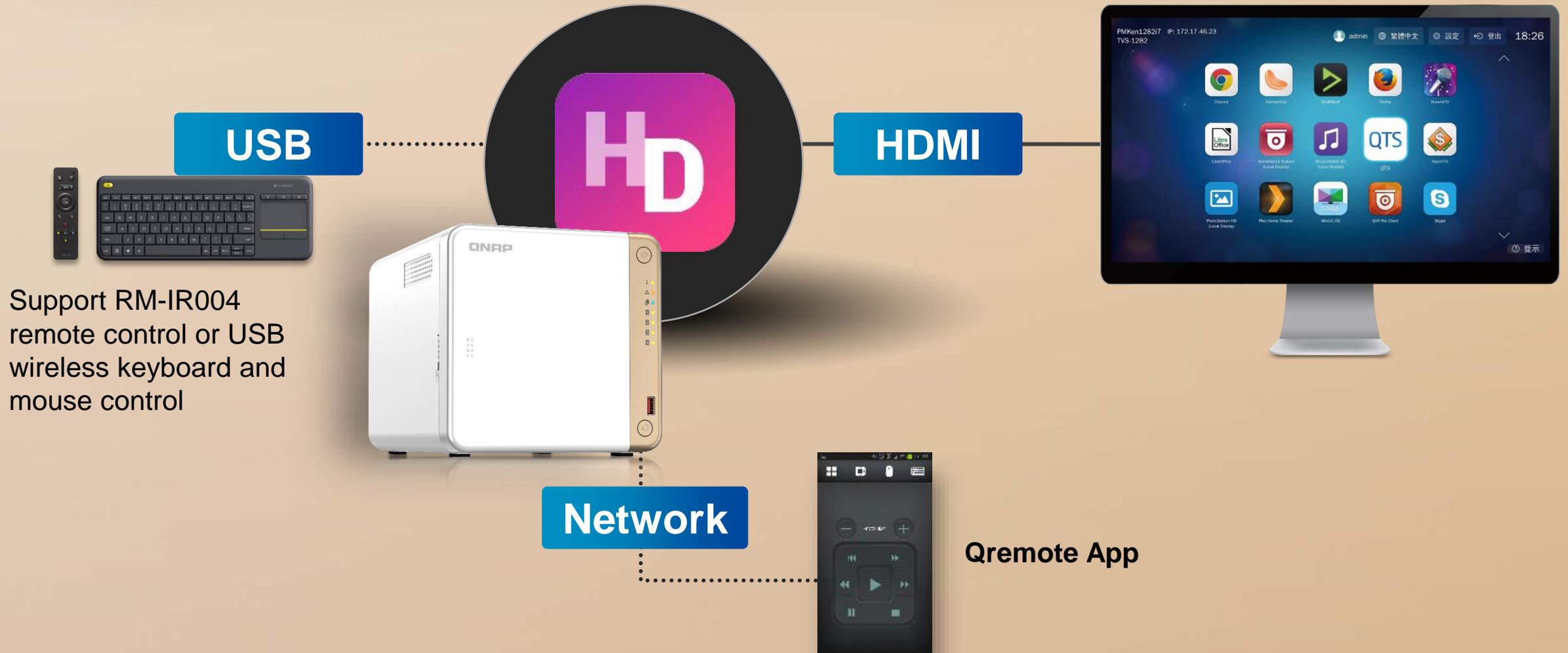


When there are different devices such as laptops and mobile phones, as long as the files are modified on a single device, the modified files will be automatically synchronized to other devices.



When team members collaborate and communicate, files can be automatically pushed to the binding devices of all members, making the workflow faster and collaboration smoother.

HybridDesk Station for various A/V needs



Versatile HybridDesk Station apps

System Management

- QTS
- FileStation HD



surveillance

- QVR Pro Client



Social Media

- Skype
- Facebook



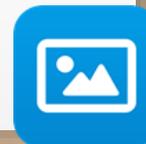
Multimedia

- HD Player
- Clementine
- Spotify
- TuneIn Radio



Media management

- PhotoStation HD
- VideoStation HD
- MusicStation HD



Browser & Productivity

- Chrome
- Firefox
- LibreOffice



Full 4K UHD multimedia experience



4K HDMI v2.0 60Hz output

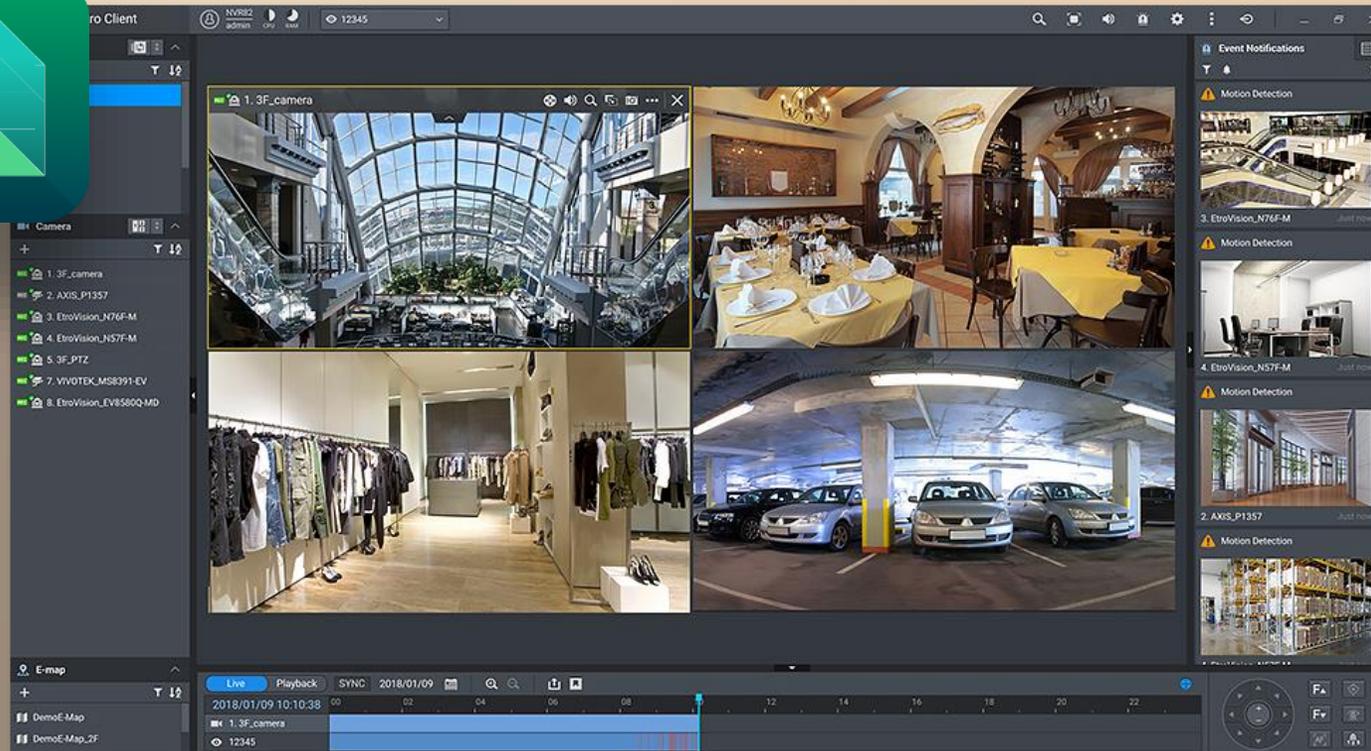


Plex Server streaming & transcoding

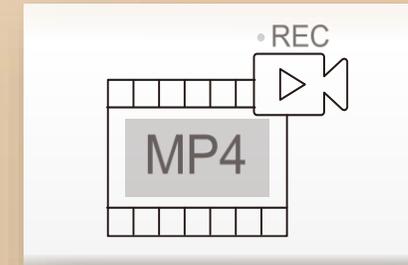


Use Cinema28 for multi-room streaming

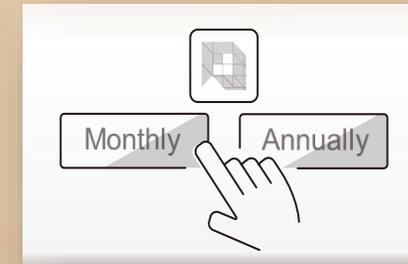
QVR Elite Smart Surveillance System



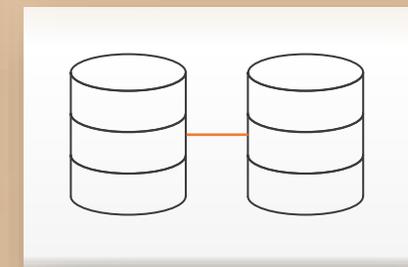
2 channels are included for free
(expandable)



Record using the MP4 Format



Flexible Subscription



Expandable Capacity

QVR Elite with powerful IP surveillance camera management and support

More than **180** Brands

 GeoVision

 **VIVOTEK**
BUILT WITH RELIABILITY

 Panasonic

 **AXIS**
COMMUNICATIONS

 MOBOTIX

 Canon

 **HIKVISION**

 **aHua**
TECHNOLOGY

 Honeywell

 **Brickcom**

More than **6700** Models



ONVIF Profile support

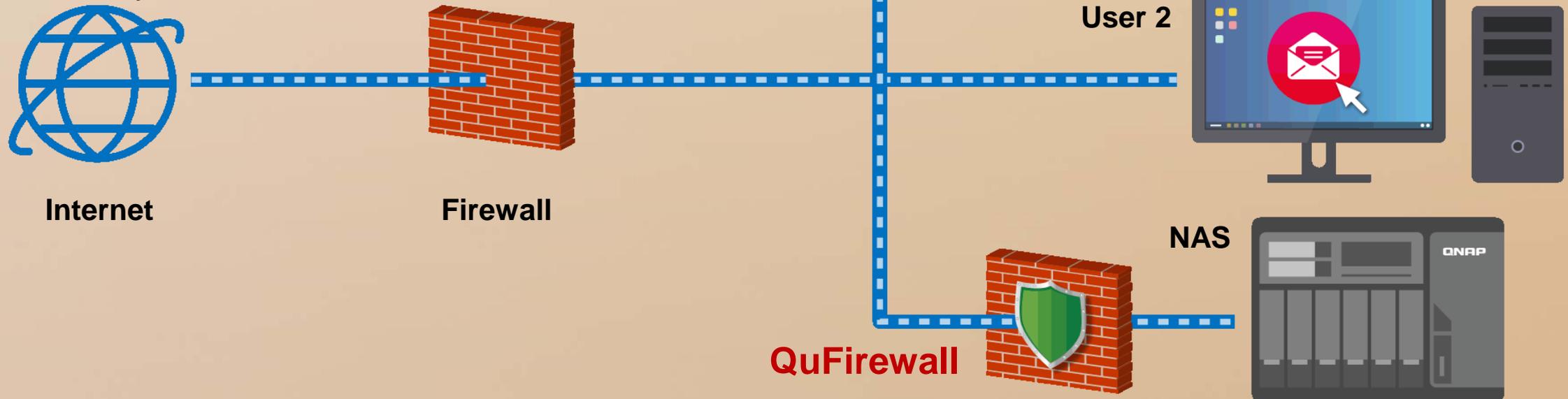


Record into QVR Elite
by using the
RTSP/RTMP link with no
integration needed.
Multiple video sources
are supported - not just
IP cameras.

Built-in Firewall for QNAP Appliances

QuFirewall

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

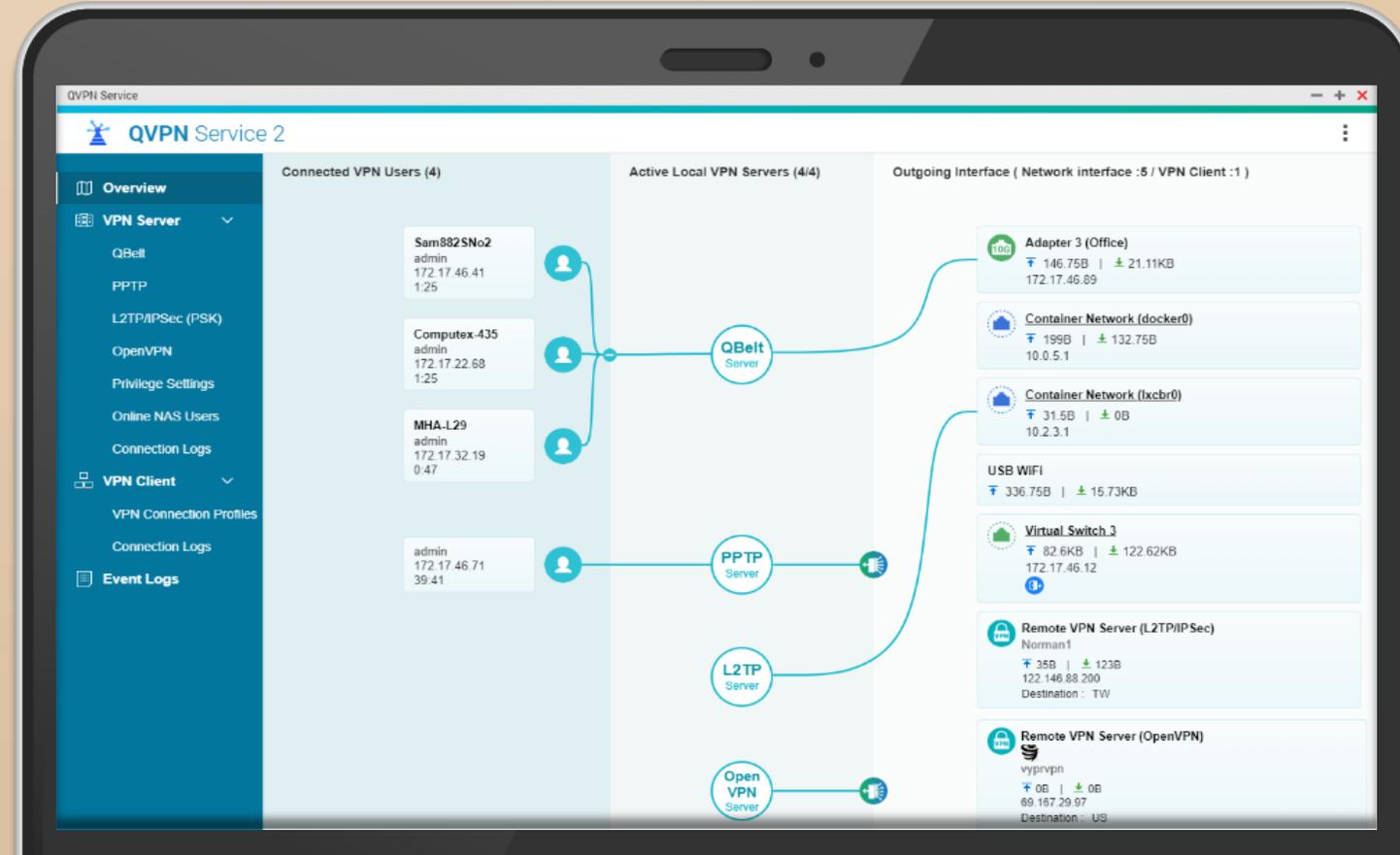


Secure communication for peace of mind



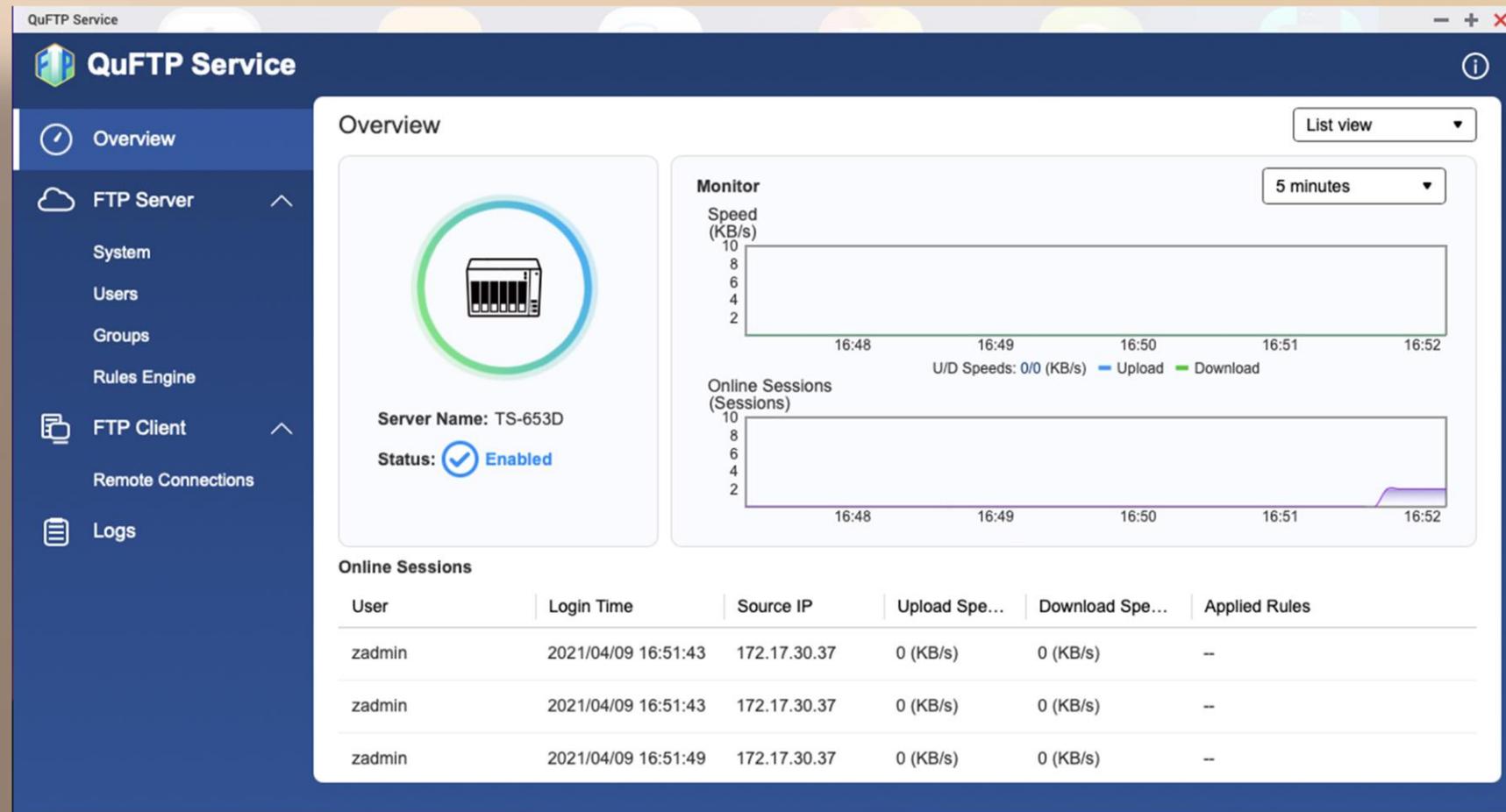
QVPN

- In addition to establishing a VPN client connection to a remote server, QVPN can also be used.
- Supports WireGuard® to provide faster and more stable VPN connections, and to easily set up VPN.



QuFTP remote file FTP access service

- Updated independent
- Support FTP server
- Support FTP client
- Support TLS setting
- Support QoS setting



Under the similar appearance of TS-x62 / TS-x64, how should we choose ?

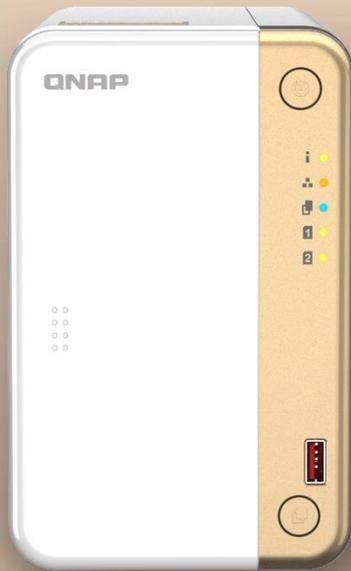
Model	TS-262 	TS-462 	TS-264 	TS-464 
SKU	TS-262-4G	TS-462-2G TS-462-4G	TS-264-8G	TS-464-4G TS-464-8G
TA	SOHO / Home NAS		Entry SMB	
CPU	Intel® Celeron® N4505 2-core/2-thread processor, burst up to 2.9 GHz		Intel® Celeron® N5095 4-core/4-thread Processor , burst up to 2.9 GHz	
Memory	4GB onboard not expandable	TS-462-2G : 2GB(1x 2GB)DDR4 (2 x SODIMM slots, max. 16GB total) TS-462-4G : 4GB onboard not expandable	TS-464-4G 4GB (1x 4GB) DDR4 (2 x SODIMM slots, max. 16GB total) TS-264-8G / TS-464-8G : 8GB onboard not expandable	
M.2 SSD	2 x M.2 2280 PCIe Gen 3 x1		2 x M.2 2280 PCIe Gen 3 x1	
Ethernet	1 x 2.5 GbE		2 x 2.5 GbE	
HDMI	1 x HDMI 2.0 (4K @60Hz)		1 x HDMI 2.0 (4K @60Hz)	
PCIe	1 x PCIe Gen3 x2 slot		1 x PCIe Gen3 x2 slot	
USB	2 x USB 3.2 Gen2 Type-A (10Gbps) + 2 x USB 2.0		2 x USB 3.2 Gen2 Type-A (10Gbps) + 2 x USB 2.0	

Shipped with 2-year standard warranty, optional up to 5-year coverage

TS-262 / TS-462

Backed by a 2-year warranty at no
additional cost.

TS-262



TS-462



Extend hardware warranty up to 5 years
You can also purchase a warranty
extension that extends your warranty
coverage up to 5 years.

Learn More: [QNAP warranty services](#)



TS-262 / TS-462

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Level up your daily storage experience !

