QNAP

TVS-hx74

ZFS QuTS hero NAS Series supports PCle Gen 4 expandability, 10/25GbE and M.2 NVMe SSD caching





Powerful CPU provides multi-tasking ability, NAS can be Storage, VMs and surveillance station

Not only back-up and file server. NAS in now days are also multiple function server, such as iSCSi/SMB server, VMs and surveillance station



File Server



SQL server



VMs



surveillance





Backup Server

Powered by Intel 12 Gen desktop CPUs

Pentium Gold G7400 /Core i3-12100 / Core i5-12400



TVS-h474-PT-8G

- 2-core Pentium G7400 2C/4T 3.7GHz
- DDR4 8GB RAM (1 x 8GB)
- 2.5GbE port x2



TVS-h874-i5-32G

- 6-core Core i5-12400 6C/12T 4.6GHz
- DDR4 32GB RAM (2 x 16GB)
- 2.5GbE port x2



TVS-h674-i5-32G

- 6-core Core i5-12500 6C/12T 4.6GHz
- DDR4 32GB RAM (2 x 16GB)
- 2.5GbE port x2

TVS-h674-i3-16G

- 4-core Core i3-12100 4C/8T 4.3GHz
- DDR4 16GB RAM (1 x 16GB)
- 2.5GbE port x2

Switch NAS operating systems between QuTS hero and QTS for higher everyday performance

Supports QTS - QNAP's standard NAS operating system – that provides performance, efficient memory utilization, and the advantage of Qtier auto-tiering. You can also migrate drives from your current QTS-based NAS to the TVS-hx74.

Note:

QTS and QuTS hero use different file systems. You must remove all the drives from the TVS-hx74 before switching from QuTS hero to QTS.



Choose between QTS and ZFS based QuTS hero

ZFS-based QuTS hero ensures performance and data integrity

Faced with the explosive growth of data, VDI popularity, increasing SSD adoption, 8K media, and other disruptive IT trends, modern businesses need dependable storage systems to meet future demands. QNAP's new "QuTS hero" operating system combines the app-based QTS with a 128-bit ZFS file system to provide flexible storage management, comprehensive data protection and optimized performance to meet the needs of business-critical applications.

| Learn More: Why QNAP business NAS uses ZFS | QuTS hero | QTS | |
|---|--|--|--|
| Filesystem | ZFS | Ext4 | |
| SSD Cache | Read Cache | Read/Write Cache Read Cache Write Cache | |
| Inline Compression | Yes (LZ4 compression, ideal for RAW files and document files) | No | |
| Inline Deduplication | Yes (At least 16 GB RAM required) | No | |
| HBS with QuDedup for Remote Backup | Yes | Yes | |
| Power Failure Protection (Hardware) | Uninterruptible power supply (UPS) | Uninterruptible power supply (UPS) | |
| Power Failure Protection (Software) | ZIL Copy-On-Write (Service continues after power recovery) | No (Risk of filesystem-level corruption on power-loss and system downtime required for "Check File System") | |
| Permission Management | Rich ACL (14 types) | POSIX ACLs (3 types) + certain special permissions | |
| Capacity Expansion | Upgrade RAID capacity Change higher capacity disk drives Attach expansion enclosures/JBODs | Add a disk drive to a RAID group Upgrade RAID capacity Change higher capacity disk drives Attach expansion enclosures/JBODs | |
| Data Security | Better (Self-Healing & Copy-on-Write) | Standard | |
| commendation SSD Configuration for Video Editing Applications | Use SSD Pools | Editing (from original/RAW files): Use SSD Pools Post production: Enable Read/Write cache | |
| Commendation Cob Comiguration for Video Editing Applications | Note: Set the block size 128K when creating Folders/LUNs | Note: Set the block size to 32K or 64K when creating | |

Up to 6-core 12-thread powerful Intel CPU

Powerful 12 Gen *Intel* [®] *Pentium*[™] Gold and *Core* [™] i3 / i5 family CPU

Intel 12 Gen powerful CPU provides strong performance, up to 12MB cache and 4.4GHz. Also integrated with UHD graphics, which support HDMI out put and boost AI application performance

Max frequency

4.4 GHz

1.75X
Single core compared with 72XT

6-core / 12-thread

6-core

3.55x
CPU mark compared to 72XT

*Performance compare

intel CORE intel. intel. CORE PENTIUM

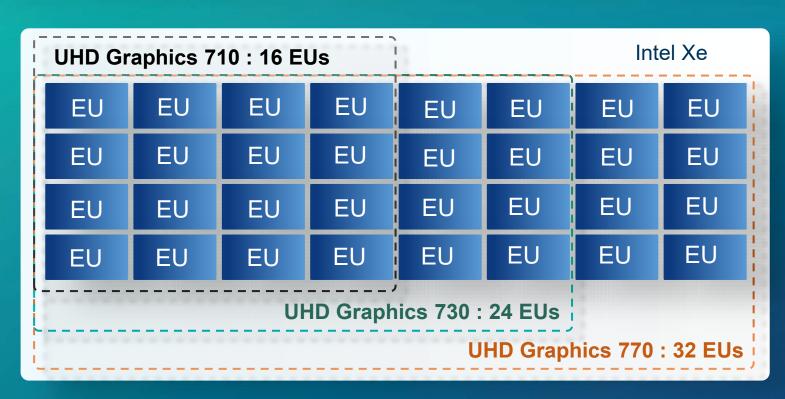
*CPU is different for each SKU, please check on our website for detail specification

Detailed CPU specification on TVS-hx74

| Model | Core/Thread | Cores | Max. Freq. | Model |
|----------------|------------------|-------|------------|----------------------|
| Pentium™ G7400 | 2-core/4-thread | 2 | 3.7GHz | TVS-h474 |
| Core™ i3-12100 | 4-core/8-thread | 4 | 4.3GHz | TVS-h674 |
| Core™ i5-12400 | 6-core/12-thread | 6 | 4.4GHz | TVS-h674 TVS-h874 |

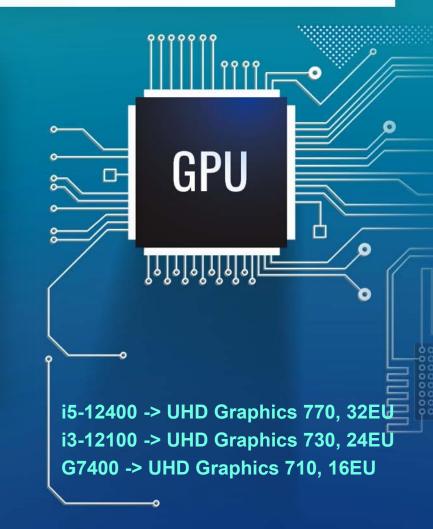


UHD 700 series GPU, up to 32 EU, support HDMI output and boost performance for OpenVINO \ QuMagie

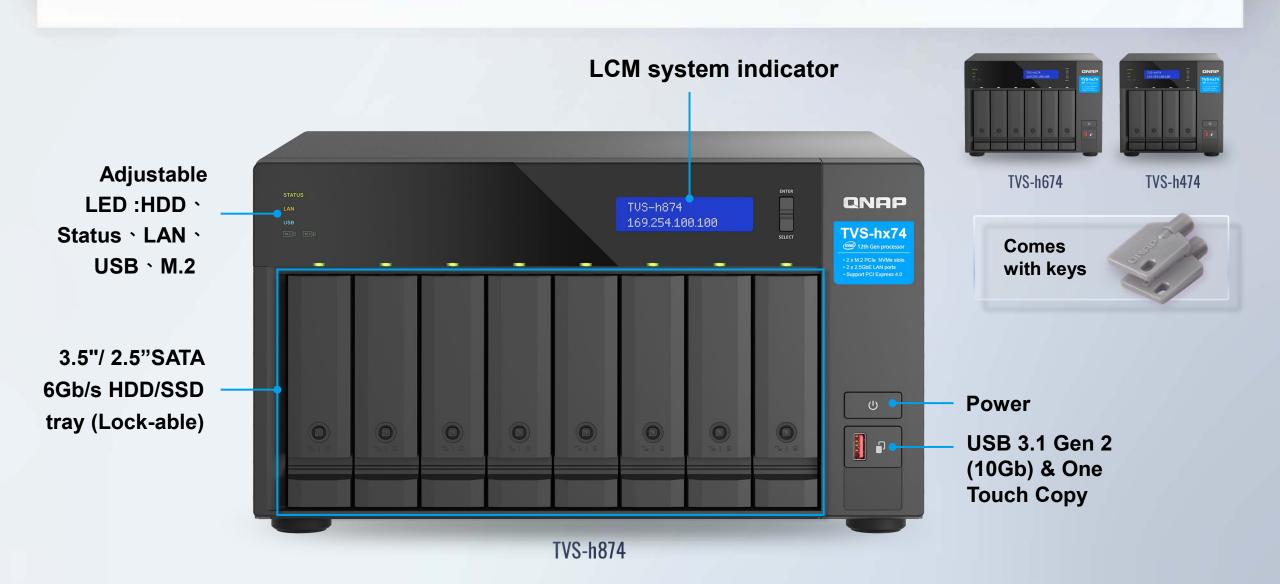


Intel 12 Gen CPU with new Intel Xe architecture - Intel UHD Graphics 700 series graphics, provide up to 32 EUs(EUs; Execution Units) bring performance upgrade for NAS to have HDMI output and transcoding.

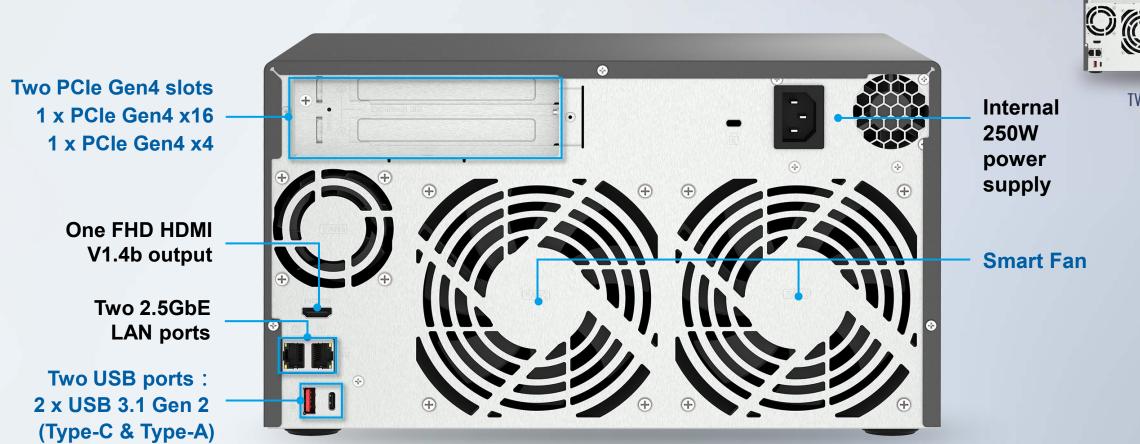
QNAP has also intergrade with out Al application, GPU can now boost performance of OpenVINO, QuMagie, etc.



TVS-h474 / h674 / h874 Front view



TVS-h674 / h874 Rear view





TVS-h674

TVS-h474 Rear view



Built in HDMI port for video output or Surveillance station





HybridDesk Station



Compartmentalized smart cooling

Enhanced design over the previous generation to separately detects the CPU and hard drive temperatures for dynamically adjusting separate fan speeds for an quieter operations in the office.

HDD side

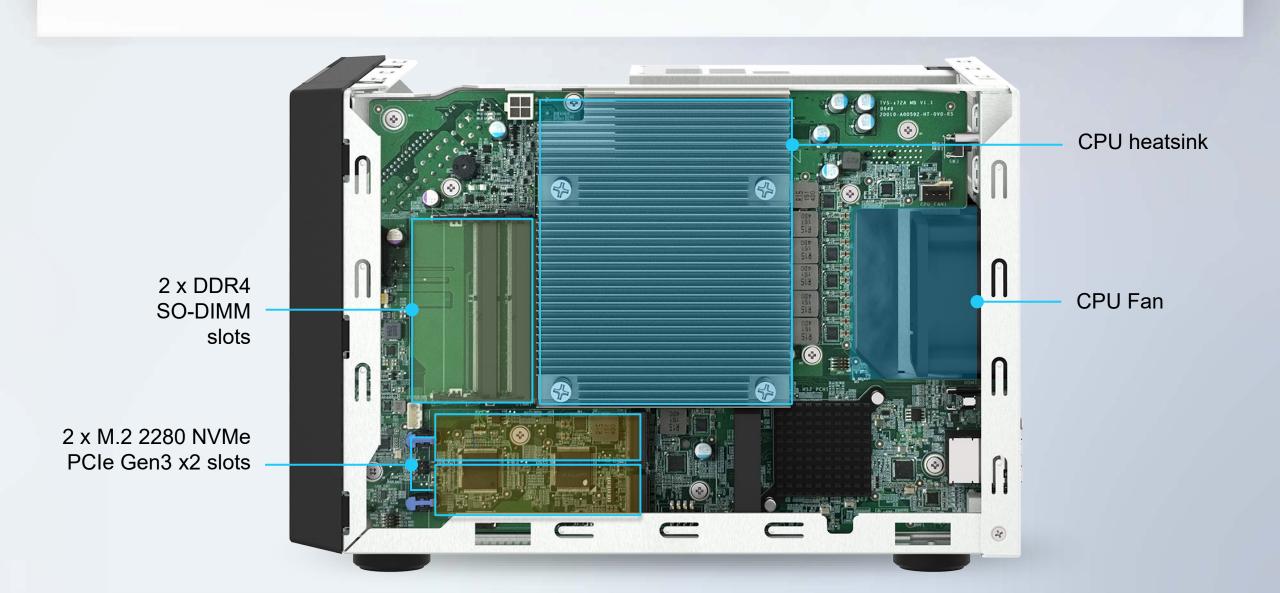
CPU side



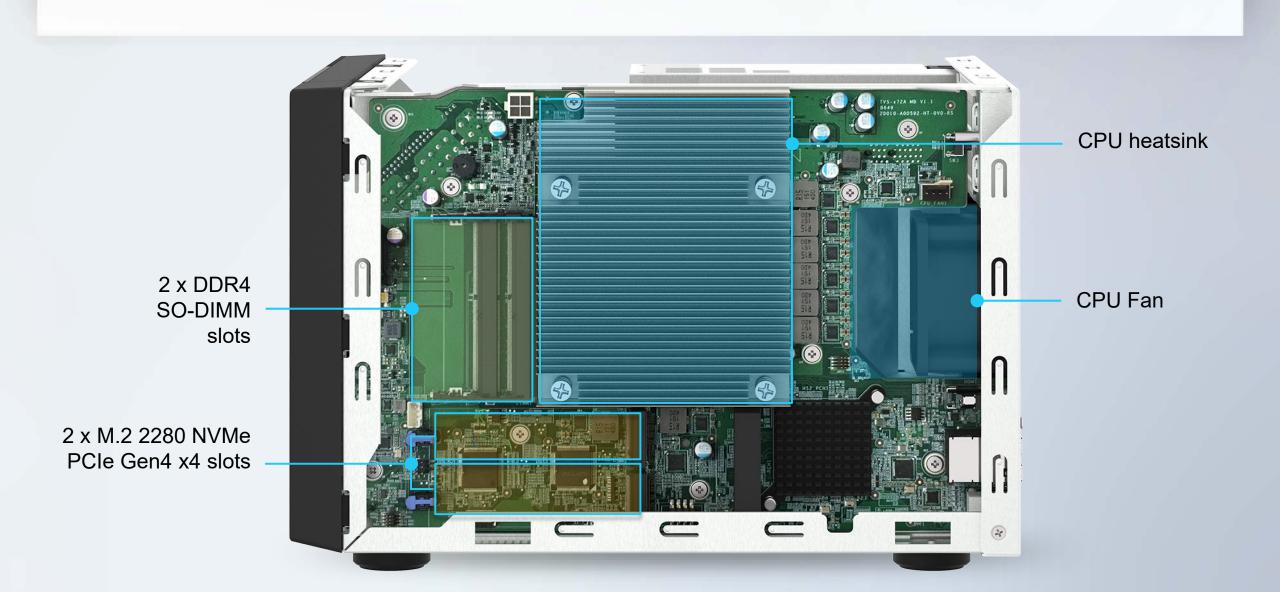


^{*}Sound pressure is measured at the front bystander position with low fan speed.

TVS-h474 Internal view



TVS-h674/h874 Internal view



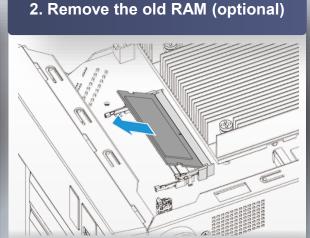
Large pre-installed 8/16/32 GB DDR4 RAM, upgradeable to max 64GB DDR4 memory

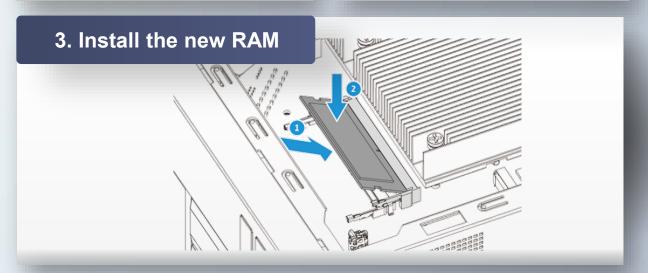
NAS ordering P/N

| Ordering P/N | Memory |
|-----------------|------------------------|
| TVS-h474-PT-8G | 8GB (1 x 8GB SODIMM) |
| TVS-h674-i3-16G | 16GB (1 x 16GB SODIMM) |
| TVS-h674-i5-32G | 32GB (2 x 16GB SODIMM) |
| TVS-h874-i5-32G | 32GB (2 x 16GB SODIMM) |

- 2 x DDR4 SO-DIMM slots, max. 64 GB (2 x 32 GB), DDR4 dual channel memory
- QNAP 8/16/32 GB RAM modules for easy upgrade and better multi-app or multi-user usage.







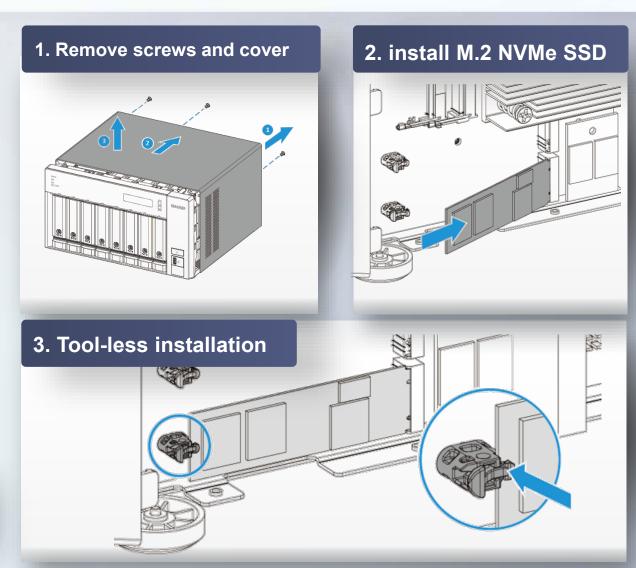
2 x M.2 SSD slots as default shared folder to improve overall performance in QuTS hero

- Use 2 x M.2 slot as System Drive & Default Shared Folders to improve performance in QuTS hero

 The first Storage Pool you create is where the system drive, default shared folders, and apps are stored. In this step, it is recommended to create an SSD RAID with at least two SSDs to attain optimal system performance and efficient app metadata management. (With an all-HDD configuration, the first Storage Pool is also where the system drive and default shared folders are stored.)
- Improve random data access speeds with an SSD cache
- Maximize the value of SSDs with Qtier Technology

Note: Qtier is only supported in the QTS OS, not in the QuTS hero OS.

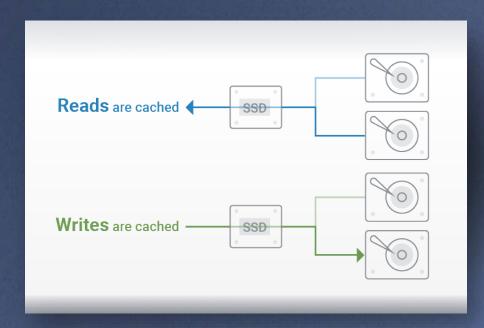




SSD Cache Acceleration Improve QNAP NAS performance with an SSD cache

What is SSD cache acceleration?

An SSD cache is a way of obtaining faster storage, reduced latency, and improved all-round NAS performance and access speeds by storing frequently-accessed data on SSDs. It is greatly beneficial for IOPS-demanding applications such as databases (online transaction processing, email servers), virtual machines, and virtual desktop infrastructure (VDI).





Higher IOPS performance and quick response time



No disk heads - less chance of drive failure



and quieter



Physically smaller Lower power usage

| | QTS NAS QuTS hero NAS | | |
|--------------------|-----------------------|-----------|--|
| | QTS 5.0.0 (and later) | QuTS hero | |
| SSD Cache Capacity | RAM Requirement | | |
| 512GB | - | ≥ 16GB | |
| 1TB | ≧ 2 GB | ≧ 32GB | |
| 2TB | - | ≥ 64GB | |
| 4TB | ≥ 4 GB | ≥ 128GB | |
| 8TB | ≥ 8 GB (ARM CPU) | - | |
| 16TB | ≥ 8 GB (x86 CPU) | ≥ 512GB | |
| 30TB | - | ≥ 1TB | |
| 120TB | - | ≧ 4TB | |

M.2 NVMe SSD and Qtier auto-tiering for speed and capacity



Note: Qtier is only supported in the QTS OS, not in the QuTS hero OS.

Built-in 2 x 2.5 GbE LAN ports, aggregated for maximum 5Gbps bandwidth



2.5GbE-supported motherboards, Wi-Fi 6 AP, switches, and LAN cards are now becoming popular

2.5GbE benefits



2.5X the speed

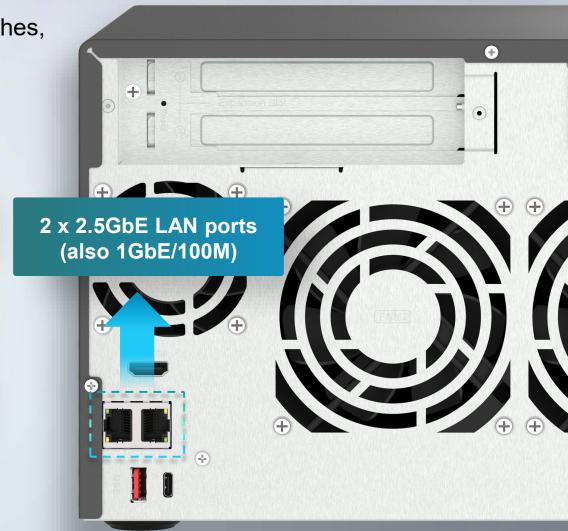


1GbE ☐ **2.5GbE**Huge leap in performance

Same cable



Use the same Cat.5e/ Cat.6/ Cat. 6A LAN cables



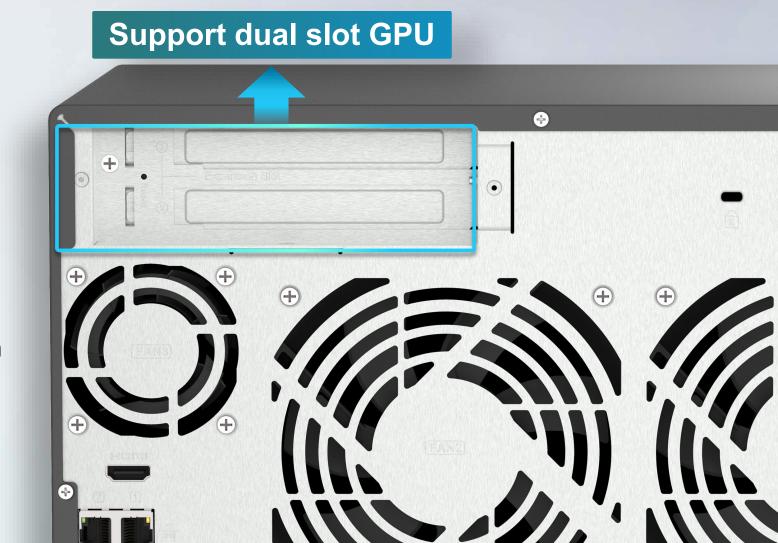
TVS-hx74 support dual slot width GPU

TVS-hx74 series support dual slot width and no additional power pin required GPU

Maximum dimension:

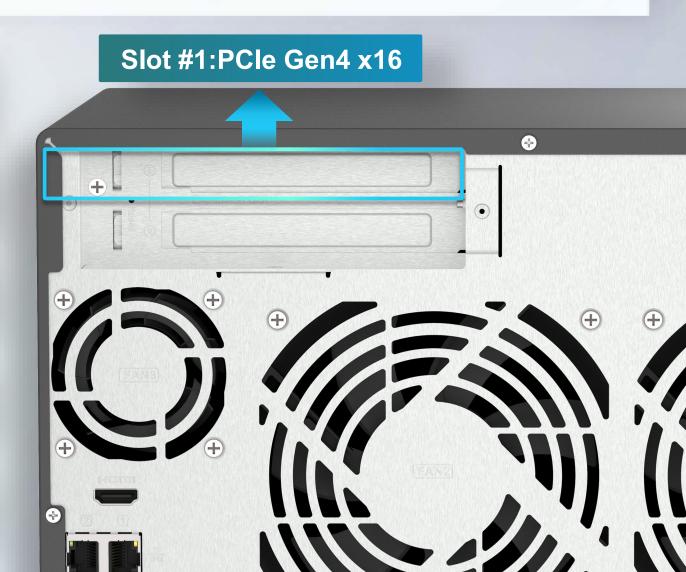
TVS-h474: 169*47*68.9 mm

TVS-h674 & TVS-h874: 169*47*111.5 mm



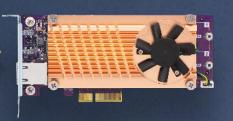
Slot # 1 support network, storage, Wi-Fi and expansion card





PCIe Slot #2 support QM2 expansion for expand SSD slots or Ethernet ports





QM2-2P10G1TB

Bandwidth: PCle Gen2 x4 2 x M.2 PCle Gen2 x2 + 1 x 10GBASE-T

QM2-2P410G1T/2T

Bandwidth: PCle Gen4 x8 2 x M.2 PCle Gen4 x4 + 1 or 2 x 10GBASE-T

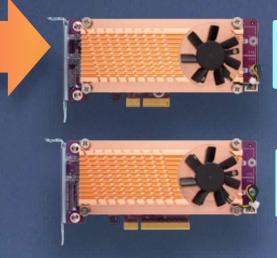
QM2-2P-344

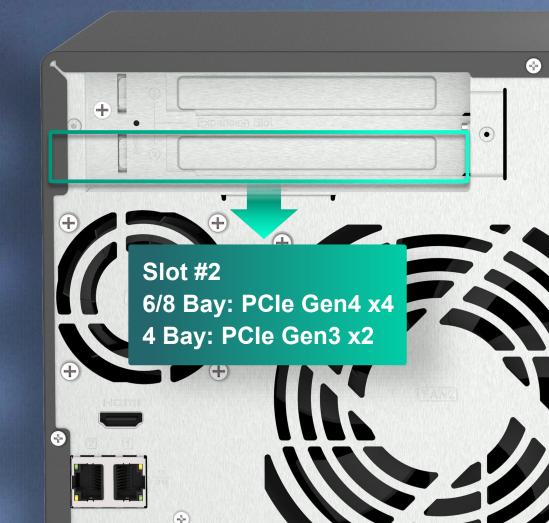
Bandwidth: PCle Gen3 x4 2 x M.2 PCle Gen3 x4

QM2-2P-384

Bandwidth: PCle Gen3 x8 2 x M.2 PCle Gen3 x4

2 x M.2 SSD

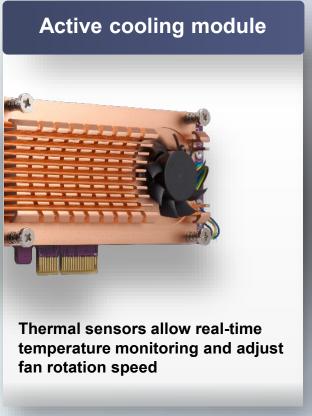


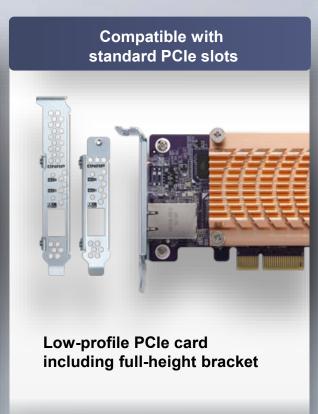


QM2 cards add support for SSD caching and 10GbE connectivity

- QM2 M.2 SSD PCIe cards allow adding 2 or 4 M.2 NVMe / SATA SSDs to TS-x73A. Enable SSD caching or create RAID 5 group with the two on-board M.2 NVMe SSDs using Qtier.
- Maximize the storage capacity and performance without occupying any 3.5" drive bays. Some QM2 models even combine M.2 SSD and 10GBASE-T connectivity into one solution.







QNAP 16/32Gb Fibre Channel card for FC SAN



QXP-16G2FC Dual-port 16Gbps QXP-32G2FC Dual-port 32Gbps

FC HBA with 16/32Gb FC transceivers

Manage Fibre Channel connection using iSCSI & Fibre Channel app



16/32Gb FC transceiver

TRX-16GFCSFP-SR TRX-32GFCSFP-SR

Budget-friendly unmanaged switches for multi-user environment



QSW-1105-5T (Unmanaged)

• 5 x 2.5GbE Multi-Gig RJ45

Fanless & metal housing



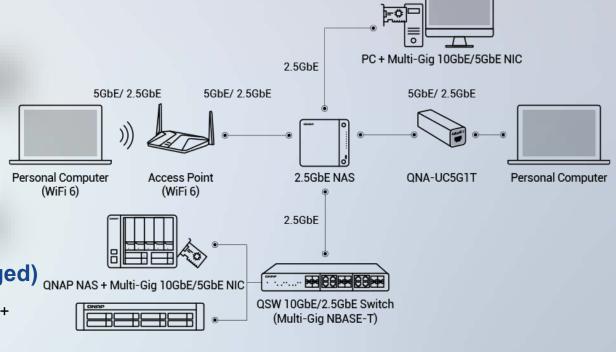
QSW-1208-8C (Unmanaged)

- 8 x 10GbE Multi-Gig RJ45 / SFP+ combo port
- 4 x 10GbE SFP+



QSW-308-1C (Unmanaged)

- 1 x 10GbE Multi-Gig RJ45 / SFP+ combo port
- 2 x 10GbE SFP+
- 8 x 1GbE RJ45



Layer-2 managed switches for multi-user environment and efficient deployment



QSW-M1208-8C (Managed)

- 8 x 10GbE Multi-Gig RJ45 / SFP+ combo
- 4 x 10GbE SFP+



QSW-M1204-4C (Managed)

- 4 x 10GbE Multi-Gig RJ45 / SFP+ combo
- 8 x 10GbE SFP+



QSW-M408-4C (Managed)

- 4 x 10GbE Multi-Gig RJ45 / SFP+ combo
- 8 x 1GbE RJ45



QSW-M804-4C (Managed)

- 4 x 10GbE Multi-Gig RJ45 / SFP+ combo
- 4 x 10GbE SFP+



QSW-M408-2C (Managed)

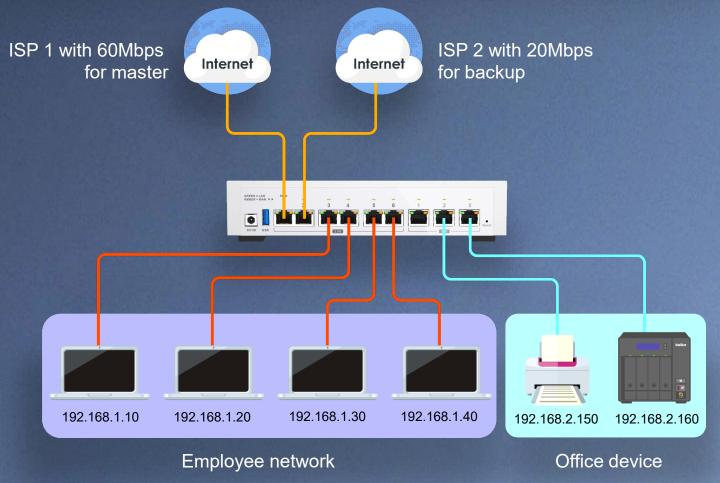
- 2 x 10GbE Multi-Gig RJ45 / SFP+ combo
- 2 x 10GbE SFP+
- 8 x 1GbE RJ45

Keep existing wiring for 2.5GbE

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

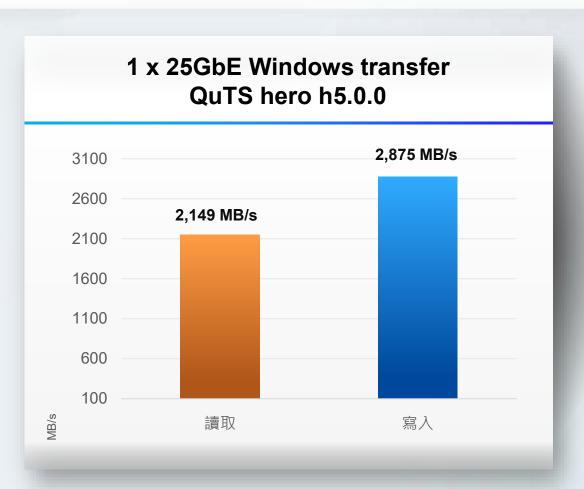
SOHO/SB – few edge devices in same subnet, no additional switch and AP request

- There are not so much edge devices, which means can connect to router directly
- Need to parallel multiple physical interfaces for assigning same subnet network
- It needs dual WAN for back up usage



Employee network: 192.168.1.x
Office device network: 192.168.2.x

TVS-h874 optional 25GbE card for fast performance



Test Environment:

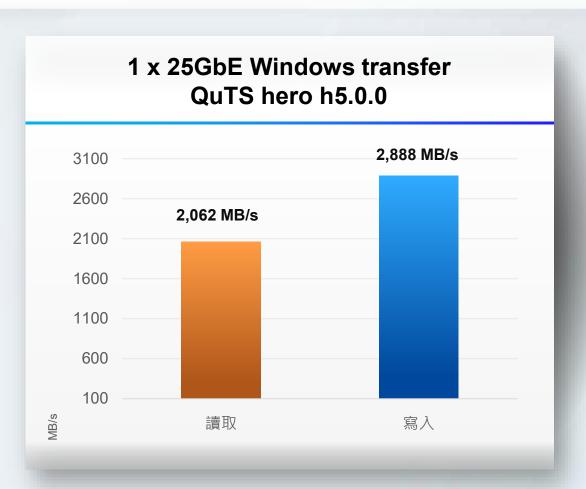
NAS: TVS-h874 with QXG-25G2SF-CX6

OS: QTS 5.0

Volume type: RAID 5; 8 x Samsung 860 EVO 1TB Client PC: Windows Server 2019, Intel Xeon W-1250. 32GB RAM. QNAP QXG-25G2SF-CX4 NIC



TVS-h674 optional 25GbE card for fast performance



Test Environment:

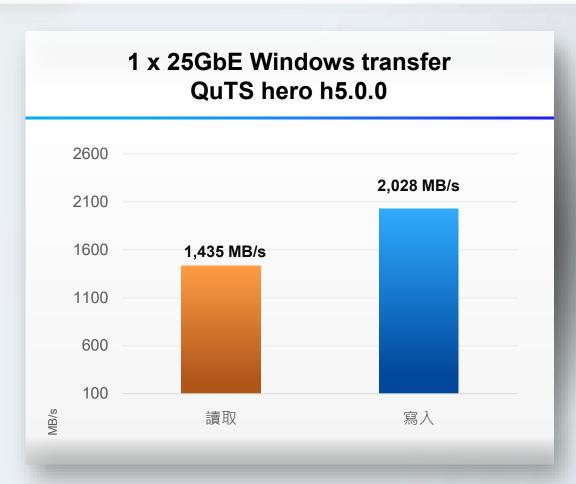
NAS: TVS-h674 with QXG-25G2SF-CX6

OS: QTS 5.0

Volume type: RAID 5; 6 x Samsung 860 EVO 1TB Client PC: Windows Server 2019, Intel Xeon W-1250, 32GB RAM, QNAP QXG-25G2SF-CX4 NIC



TVS-h474 optional 25GbE card for fast performance



Test Environment:

NAS: TVS-h474 with QXG-25G2SF-CX6

OS: QTS 5.0

Volume type: RAID 5; 4 x Samsung 860 EVO 1TB Client PC: Windows Server 2019, Intel Xeon W-1250, 32GB RAM, QNAP QXG-25G2SF-CX4 NIC

QXG-25G2SF-CX6





Enterprise-level OS

ZFS-based QuTS hero

TVS-h874

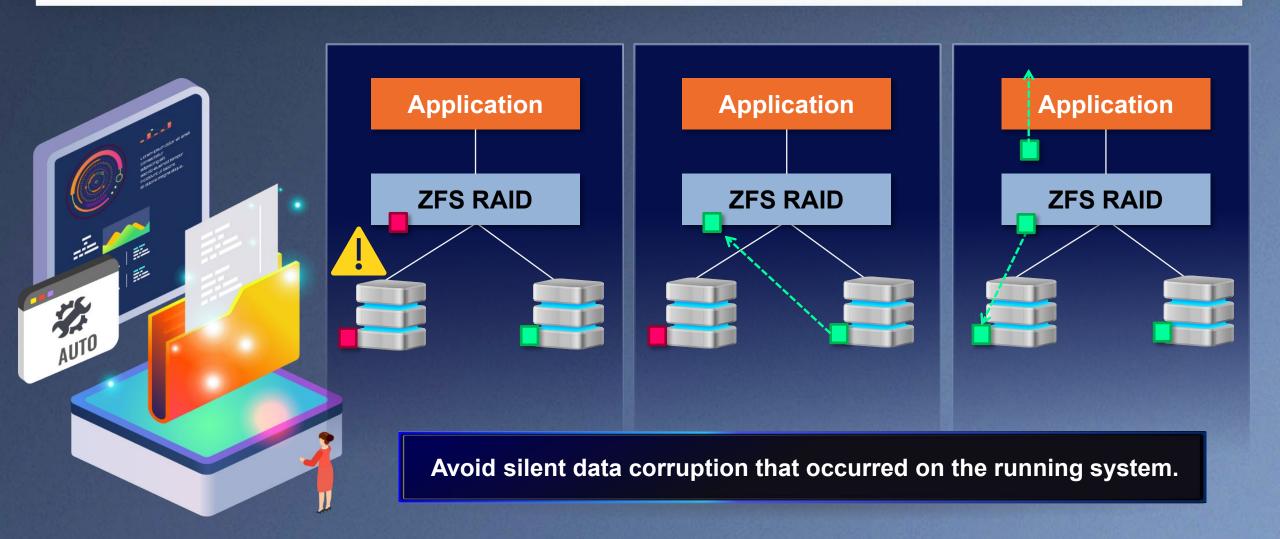


NAS & QuTS hero O.S. support powerful data reduction technologies to extend SSD endurance



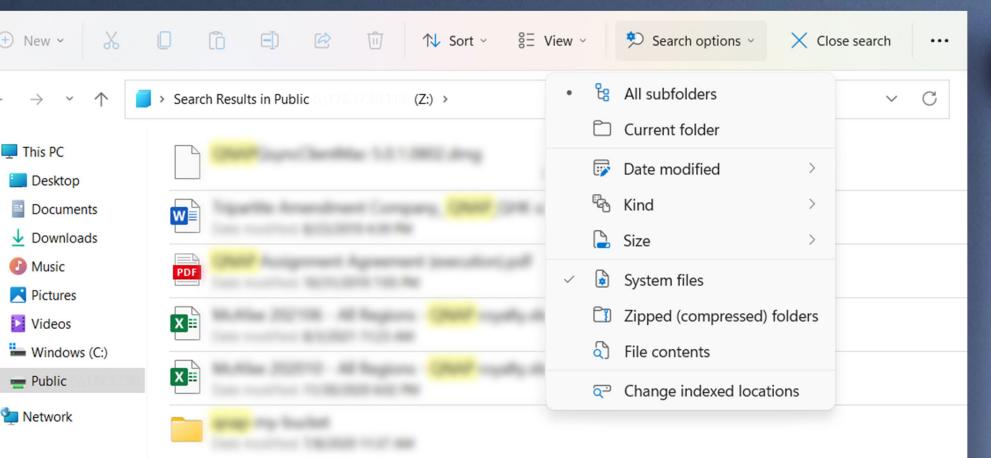
as much as possible.

Prevent silent data corruption & self-healing



Convenient file search with Windows® Search Protocol (WSP) support for NAS shared folders

Windows® 10/ Windows Server® 2016 (or later) users can easily search NAS shared folders via Windows® when an SMB drive is mounted to the NAS. Advanced file search by time, file type, or size is supported for greater convenience.



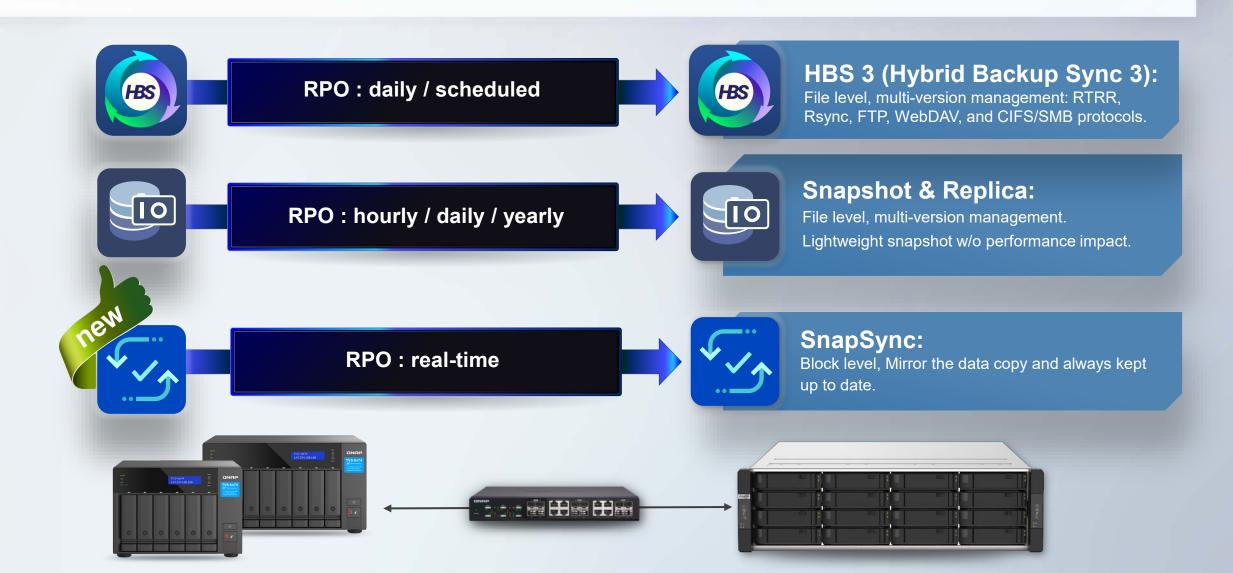


For an optimized full-text search experience, we recommend <u>Qsirch PC</u> Edition!

Qsirch PC Edition

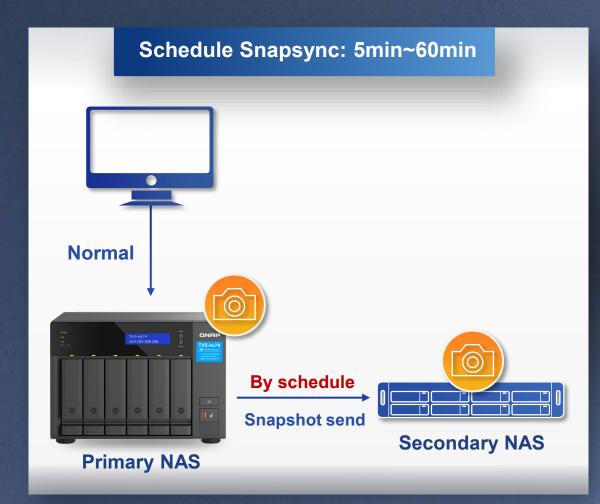
The most powerful search engine that integrate with NAS and PC local search.

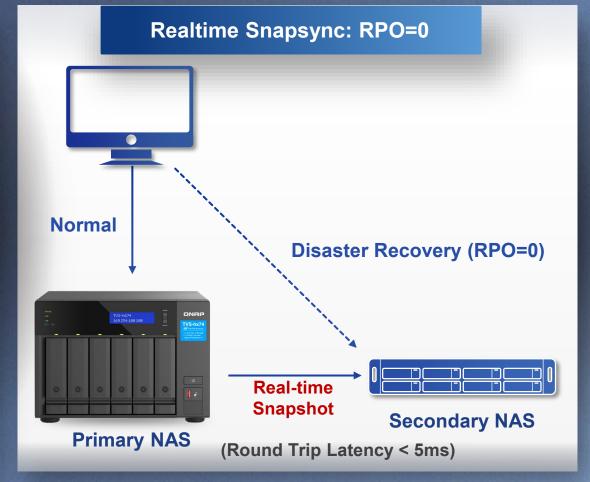
License-free backup solutions to provide the most complete data backup protection



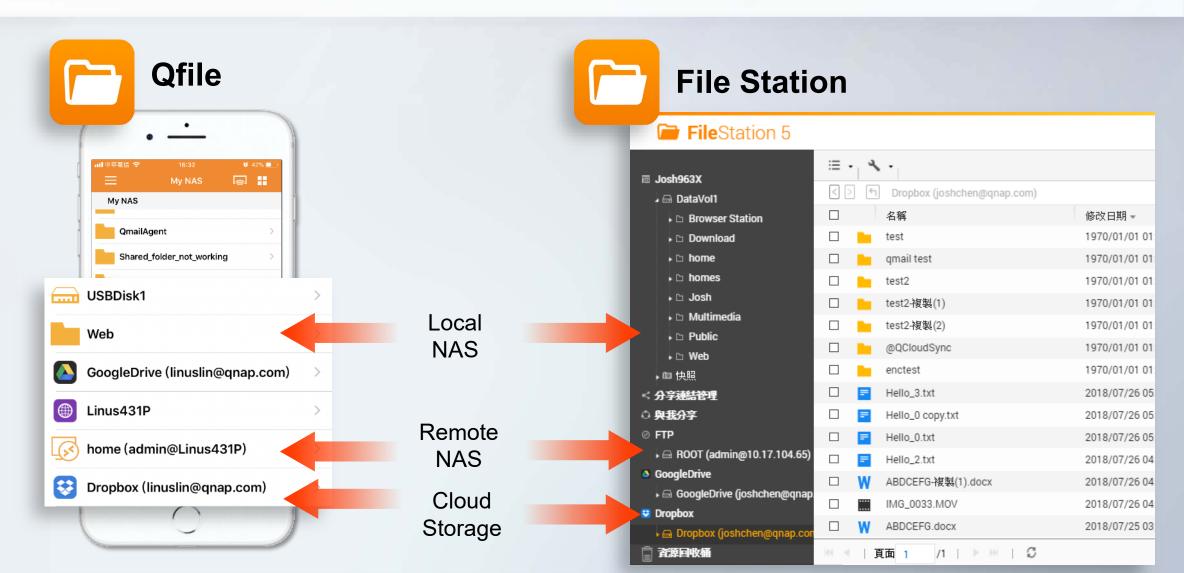
Real-time SnapSync ensures minimal RPO with real-time disaster recovery

Back up data from the local NAS to another QNAP NAS using block-level replication in real time.

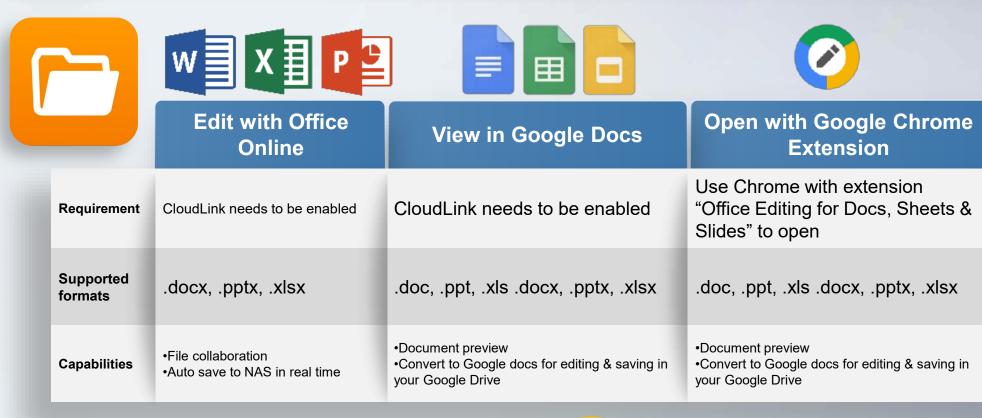


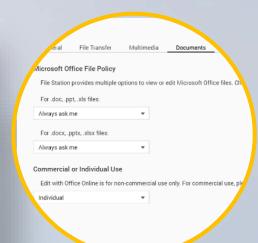


Connect to Dropbox, OneDrive, Google Drive and more



Easily make NAS your team collaboration portal with File Station





Select the default open action based on your preference in Settings > Documents.

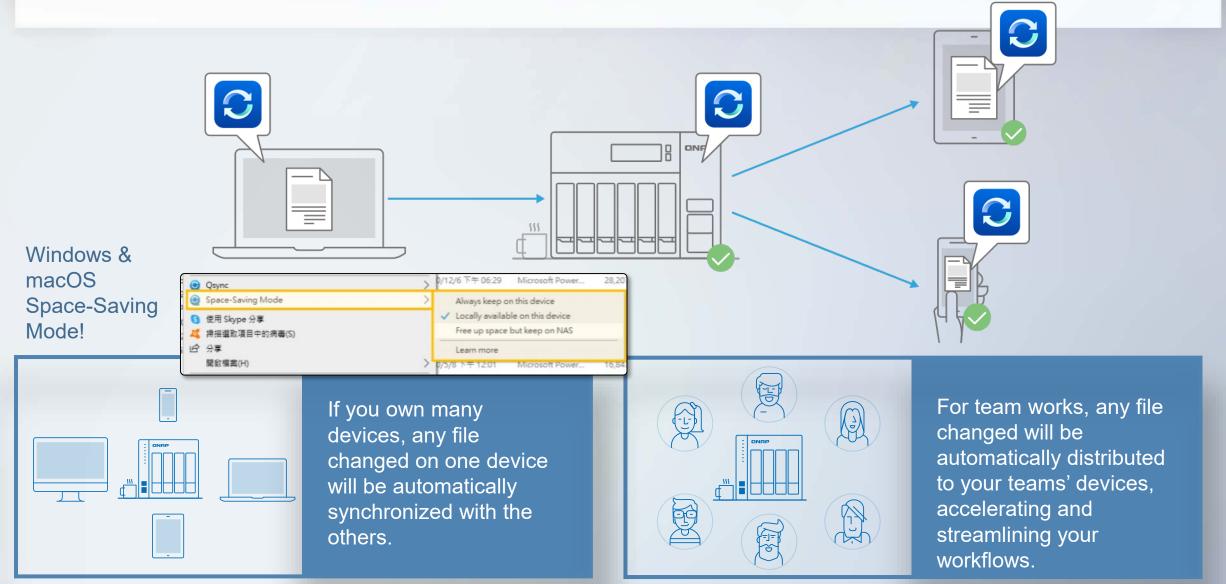


Save to NAS in real time

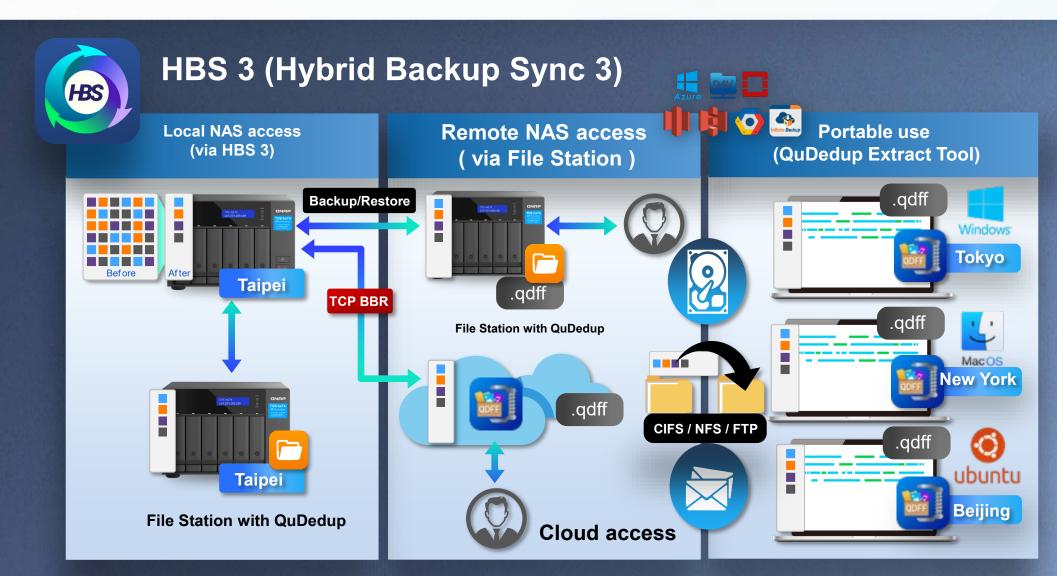


Multi-user online editing

Qsync 5.0 – Cross-device file sync for individuals and teams



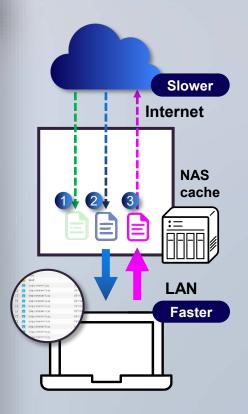
Easy to use HBS 3.0 app fulfilling backup 3-2-1 practice with deduplication



Mount cloud storage and file servers with HybridMount for greater storage & faster access

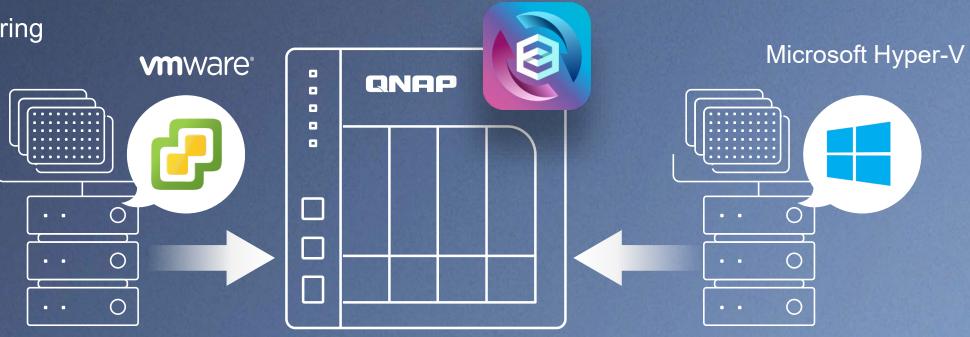
| | Network Drive Mount | File Cloud Gateway | |
|-----------------------------------|--------------------------|---|--|
| Setup Method | Mount cloud drives | Select "File Cloud Gateway" mode and create a dedicated cache space | |
| Connections | No limit | 2 free and perpetual connections. Purchase license for more connections | |
| Access Performance | Depends on network speed | High performance thanks to caching | |
| Access in File Station | Supported | Supported | |
| Access through SMB / NFS / AFP | Not Supported | Supported | |
| Sync with the cloud | Sync only when browsing | Sync constantly for quick access | |
| Integration with QTS Apps | Not supported | Supported O To | |

- Online collaboration
- · File data analysis



Hyper Data Protector: All-in-one active backup solution for virtual machines

- Supports VMware and Microsoft Hyper-V
- Unlimited VM backups and license-free
- Active backup solution
- Restore at any time point
- Constant monitoring



Hyper Data Protector

Boxafe: Comprehensive Backup Solution for Google Workspace and Microsoft 365



- Keep important data in your hands
- Move older data out of the cloud to reduce cost

Google™ Workspace



Gmail

Backup all your emails and attachments in Gmail



Google Drive

Backup all your file versions in Google Drive and supports My Drive and Shared Drive



Contacts

Backup all your contacts in Google Contacts



Calendar

Backup all your events and attachments in Google Calendar

Microsoft 365®



Outlook

Backup all your emails and attachments in Outlook



Contacts (People)

Backup all your contacts in Outlook People



Calendar

Backup all your events and attachments in Outlook Calendar

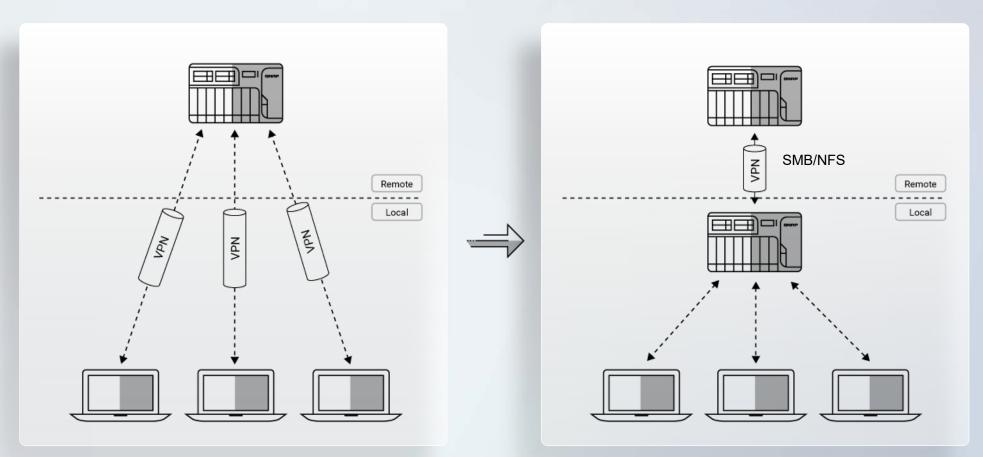
OneDrive



Backup all your files in OneDrive and support SharePoint

HybridMount - Cascade share the access permission to remote devices

The remote data mounted by SMB/NFS can be shared with other devices with folder permission to achieve a cascade share architecture.

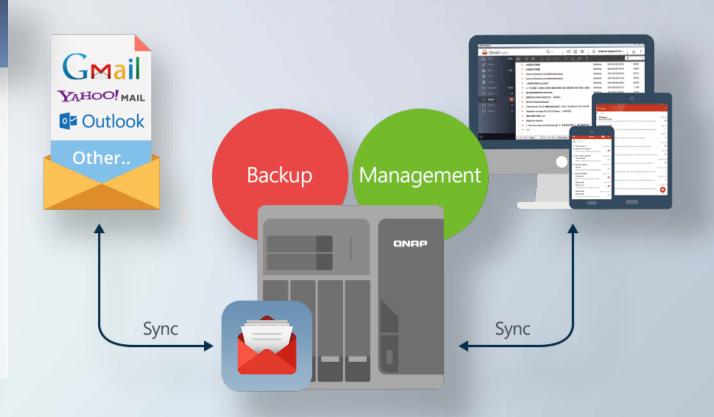


- To avoid local users
 accessing the remote
 data by VPN and to
 reduce the security
 concern and risk of VPN.
- No longer need to manage user accounts in the remote server. The local admin retains full control over assigning different permissions to local users.

QmailAgent – email backup solution

Best Email Retention Solution

- Collectively manage and back up your personal and business emails.
- Easily auto back up all your emails and attachments.
- Quickly search and gain access to specific messages.
- Back up emails for disaster recovery.
- Encryption service protects backed up private emails.



Install an NVIDIA graphics card to add HDMI output and improve VM / container performance



Support graphic cards that do not need power cables, including NVIDIA® GTX 1650, 1050, or 1030 to add an HDMI output and boost performance of GPU-accelerated computing, virtual machines, and containers via GPU passthrough.



Virtualization Station



Container Station



Ubuntu Linux Station

Note:

- 1. Supported video formats depend on the hardware and software specifications of the devices. Playback capability and quality may vary due to factors including the original file formats/quality, hardware and software limitations, and output devices.
- 2. When Virtualization Station uses graphics cards, the NAS will temporarily stop hardware transcoding acceleration for QTS (and vice versa).
- 3. Consult the Compatibility List for information on supported NAS and graphics cards.

All-in-one solution for hosting virtual machines and containerized apps



Virtualization Station

Virtualization Station allows you to create virtual machines (VM) on Turbo NAS, supporting Windows `Linux® `UNIX® `Android `QuTScloud operating systems.











Container Station

Experience LXD and Docker® lightweight virtualization technologies, download apps from the Docker Hub Registry®, import/export containers, and create abundant microservices.



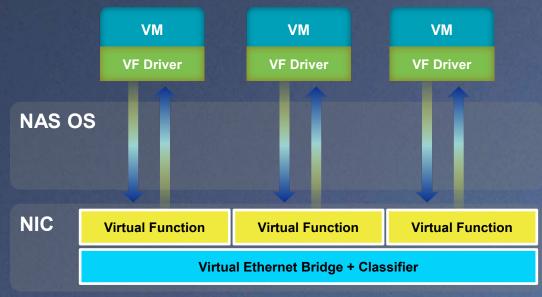
| Container | | |
|-------------|-------------|-------------|
| Application | Application | Application |
| Filesystem | Filesystem | Filesystem |

Host OS

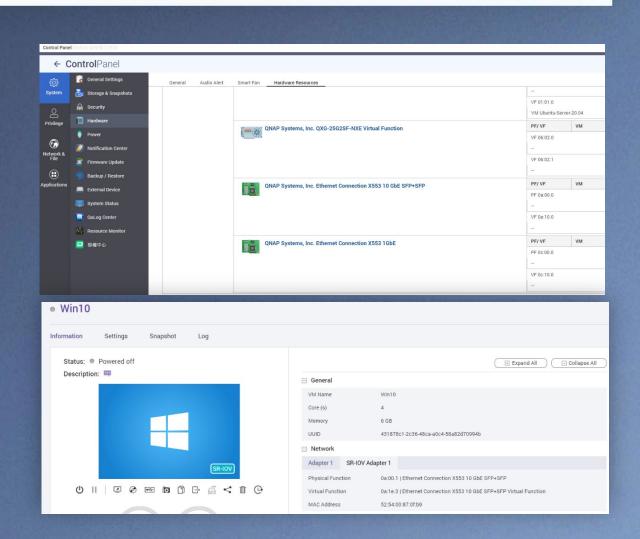
Hardware

SR-IOV improves the network performance of virtual machines by 20% with HW acceleration

SR-IOV (Single-Root Input/Output Virtualization) let the services on your virtual machine enjoy the physical network speed.



Note: NAS must install SR-IOV supported NICs



Establish and run dual systems - Ubuntu & QuTS hero



Ubuntu Linux Station

- Run QuTS hero and Ubuntu dual system, dual system application to enjoy.
- One-click installation of multiple versions Ubunutu: 16.04 / 18.04 / 20.04
- Ubuntu Software Center enjoy a variety of application downloads
- Remotely access the Ubuntu Linux desktop through a browser /
- Install a PCle graphic card to add an HDMI output screen, and use a USB keyboard and mouse with it.



Smart and automatic file management



Qsirch 5

A powerful, Google[™]-like search tool

- Search image, music, video, document, and email by keyword and filters.
- 5 advanced image search: search by face, text in image, things, color and map.
- Supports Qfiling to perform archival tasks based on your search criteria.



Qfiling 3

Automatically filing and archiving



- 2 type of task: filing task, recycling task
- 3 type of scheduling rule: one-time, scheduling, real-time
- 9 editing module: Al face blur, encryption and decryption, video transcoding and so on

Notification Center - diversity of active notification





Centralized setting

One interface to integrate all notification settings and operations



Multiple notification methods

Meet your various notification scenarios



Highly flexible rule setting

Easily filter important messages



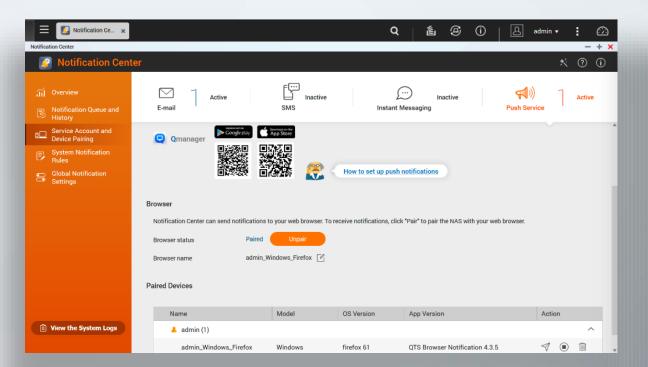
Multi-language support

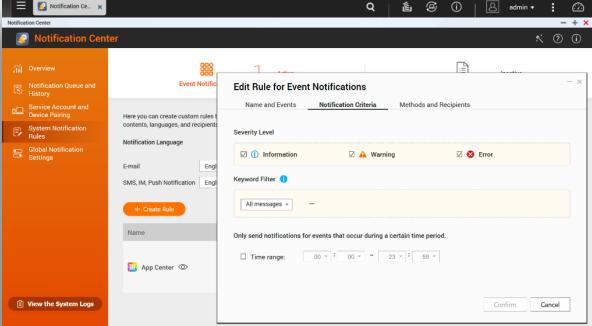
Support 23 language & composed by professionals



Double insurance

Notification history and test function





QuLog Center proactively analyze and monitor connections

Proactive analysis

- List the top 5 Applications for Error/Warning Logs
- System access statistics such as connection types and logged in IP

Quick filtering

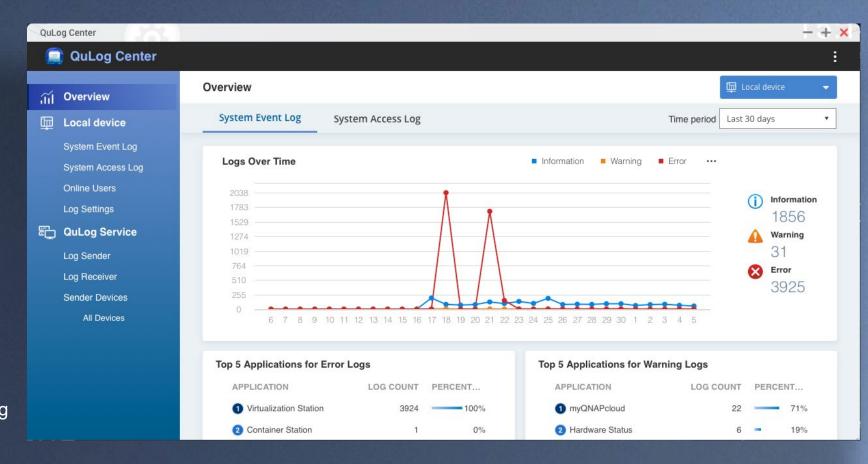
- Categorize by APP name or date
- Customize labels/styles/flags for advanced search

Real-time monitoring

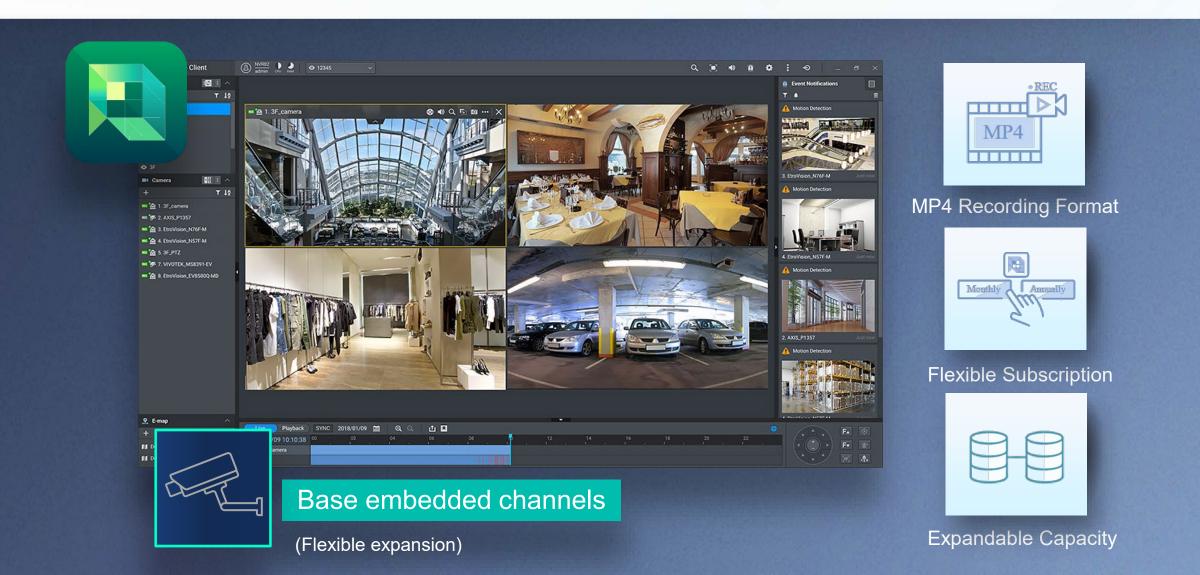
View the online members and their connection types

Unified management

- Consolidate detailed local and remote NAS record files
- · Set the size of the space for the record
- Send NAS log files to a standard Syslog server
- Notify specified notifications by Notification Center



QVR Elite- Surveillance System



Compatible with a huge amount of camera models

Over 180 Brands









MOBOTIX







Honeywell

Brickcom



ONVIF Profile Supported

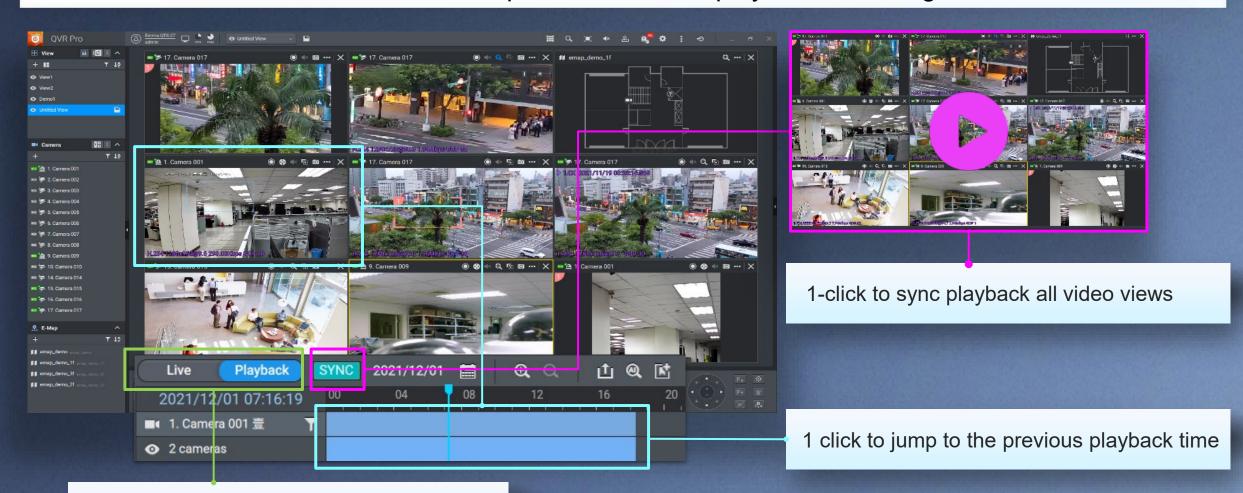


RTSP Stream Input / Output

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.



1 click to switch between Live & Playback

Surveillance Client for mobile and home environment



QVR Pro Client

Mobile device recording and playback

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





QVR Viewer

Apple TV Monitoring App

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





High-performance multimedia streaming platform



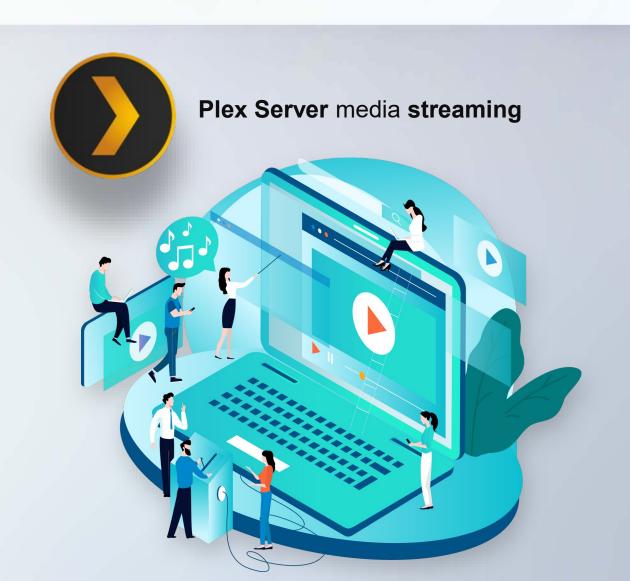
QuMagie Al smart photo albums and auto classification



CAYIN MediaSign Player HEVC (H.265) video transcoding



Use Cinema28 for multi-room streaming



Multiple Storage

Expansion Solutions

QTS QuTS have

169.254.180.180

QNAP

•

TVS-h474

TVS-h674







Storage expansion: TR-002 / TR-004 USB RAID units

- NAS with a USB port can support TR USB RAID enclosures
- Integrated USB Type-C port for plug & play, supporting USB Type-A & Type-C hosts
- NAS can connect max. 2 of TR-002/TR-004 enclosures





included

USB 3.2 Gen 1 or Gen 2 Type-C to Type-A cable



Optional

Type-C to Type-C cable

Storage expansion: TL-D800C USB JBOD units

- NAS with a USB port can support TL USB JBOD enclosures
- USB Type-C provide speed up to USB 3.2 Gen 2 10Gb/s



High-speed storage expansion with PCle to SATA enclosures

- Install a QNAP QXP SATA HBA on NAS to access the TL expansion units via PCIe Gen3 bandwidth
- Each SFF-8088 cable provides 4 x SATA 6Gb/s = 24 Gb/s bandwidth. Connect multiple cables for up to 64 Gb/s performance



QXP SATA HBA and cables are included





Brand new TVS-hx74 series Faster CPU \ more cores \ ZFS file system

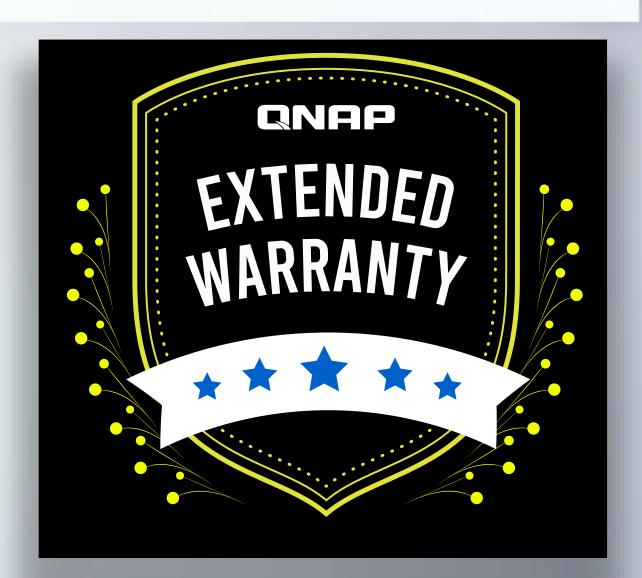
| | TVS-h474-PT-8G | TVS-h674-i3-16G | TVS-h674-i5-16G | TVS-h874-i5-32G | |
|------------|--|---------------------------------------|---|---|--|
| CPU | Intel Pentium Gold G7400 | Core i3-12100 Core i5-12400 | | 5-12400 | |
| Memory | | Max. 128GB (2 x 64GB) | | | |
| PCle | 1 x PCle Gen4 x16 1 x PCle Gen3 x2 | 1 x PCIe Gen4 x16 1 x PCIe Gen4 x4 | | | |
| Graphics | UHD Graphics 710; 16EUs | UHD Graphics 730; 24EUs | Graphics 730; 24EUs UHD Graphics 770; 32EUs | | |
| Drive slot | 4 x 2.5"/3.5" HDD/SSD; SATA 6Gbps | 6 x 2.5"/3.5" HDD/SSD; SATA 6Gbps | | 8 x 2.5"/3.5" HDD/SSD; SATA 6Gbps | |
| M.2 slots | 2 x PCIe Gen3 x2 | 2 x PCle Gen4 x4 | | | |
| Ethernet | 2 x 2.5GbE Optional 10/25GbE NICs | | | | |
| os | Pre-install <mark>QuTS hero (ZFS)</mark> Optional QTS | | | | |

3-year standard warranty covering hardware repair and support services

Backed by a **3-year** warranty at no additional cost.

You can also purchase a warranty extension that extends your warranty coverage up to 5 years total (2 additional years).





TVS-hx74

is your best choice!

TVS-h874

TUS-h874

169.254.100.100

TVS-hx74

Str 120 American

1-40 American

1

TVS-h474

QTS

QuTS haro



TVS-h674



