Dane aktualne na dzień: 14-11-2026 07:02

Link do produktu: https://sklepqnap.pl/qnap-tvs-h674t-i5-32g-p-2653.html



# QNAP TVS-h674T-i5-32G

| | |
|---|---|
| Cena | **14 630,23 zł** |
| Dostępność | **Na zamówienie** |
| Numer katalogowy | **QNA_TVSH674TI532G** |
| Kod producenta | **TVS-h674T-i5-32G** |
| Kod EAN | **4711103082348** |
| Producent | **QNAP** |
| Pamięć RAM | **32GB** |
| Port 2,5 GbE | **2** |

## Opis produktu




## QNAP TVS-h674T-i5-32G

Dysk sieciowy **QNAP TVS-h674T** to wysoce niezawodna pamięć masowa oparta na ZFS z możliwością rozbudowy PCIe Gen 4 do łączności 10/25GbE, buforowaniem M.2 NVMe SSD i procesorami wielowątkowymi do zastosowań wirtualizacyjnych. Dzięki **sześcio-rdzeniowemu** Intel Core i5 do obsługi systemu operacyjnego **QuTS hero opartego na ZFS**, serwer NAS TVS-h674T dla małych i średnich firm zapewnia integralność danych i obsługuje wbudowaną deduplikację i kompresję danych na poziomie bloków, **prawie nieograniczoną liczbę** migawek w czasie rzeczywistym SnapSync i optymalizacja SSD. Niezależnie od tego, czy chodzi o serwery plików o znaczeniu krytycznym, serwery wirtualizacji, wspólną edycję wideo, czy też wydajne aplikacje. TVS-h674T ma dwa porty Thunderbolt™ 4 i **doskonale współpracuje z komputerami Mac** wyposażonymi w procesory Apple Silicon (takie jak chipy M1 i M2) oraz Intel®, a także komputerami PC z systemem Windows.

Fotografowie/kamerzyści korzystający z zewnętrznych dysków SSD USB4™ lub zwykłych dysków SSD USB3.2 Gen 2 Type-C mogą z łatwością importować pliki za pomocą funkcji One-Touch-Copy swojego serwera NAS.

Cechy wyjątkowe dysku sieciowego **QNAP TVS-h674T:**

- Dwa porty **Thunderbolt™ 4** Type-C w standardzie umożliwiają bezpośrednie podłączenie komputera Mac.
- Włącz pamięć podręczną NVMe SSD lub wzmocnione rozpoznawanie obrazów **AI Edge TPU**
- Porty 2,5 GbE **zapewniają wyższe prędkości** transmisji dzięki istniejącym kablom Cat 5e.
- Gniazda PCIe umożliwiają instalację adapterów **2.5/5/10/25GbE**, kart QM2 lub podstawowych kart graficznych w celu zwiększenia wydajności aplikacji.
- Hostuj wiele **maszyn wirtualnych i kontenerów** ze zoptymalizowanym wykorzystaniem zasobó
- Bezpośrednio przeglądaj prace twórcze na wyświetlaczu z gniazdem HDMI. Ciesz się płynnym odtwarzaniem multimediów **Full HD** i transkodowaniem w czasie rzeczywistym.
- Wbudowane karty graficzne Intel UHD oraz Intel OpenVino pomagają zwiększyć **rozpoznawanie obrazów AI** i odciążyć procesor.
- **Migawki** dla woluminu i jednostki LUN
- Możliwość zbudowania systemu **monitoringu** z kamerami IP

Podstawowe funkcje **dysku sieciowego QNAP** dla domu:

**Zbuduj szybkie środowisko sieciowe 2.5GbE**

QNAP oferuje kompleksowe, ekonomiczne rozwiązania pamięci masowej i sieciowe, które zapewniają szereg możliwości łączności. Łatwo i elastycznie uaktualnij teraz swoje miejsce pracy lub sieć domową, aby obsługiwać aplikacje wymagające dużej przepustowości.
**Doskonałe wrażenia wizualne dzięki wyjściu Full HD HDMI i transkodowaniu wideo w czasie rzeczywistym**

- Wyjście HDMI Model TVS-h674T jest wyposażony w wyjście HDMI obsługujące Full HD, co zapewnia ogromne korzyści w zastosowaniach takich jak produkcja/edycja wideo lub projektowanie przemysłowe wymagające wysokiej rozdzielczości oraz intensywnego przechowywania, przesyłania i wyświetlania multimediów.
- TVS-h674T jest wyposażony w grafikę Intel UHD, która obsługuje dekodowanie sprzętowe i transkodowanie w czasie rzeczywistym w celu konwertowania filmów do uniwersalnych formatów plików, które można płynnie odtwarzać na wielu urządzeniach.




**Rozszerzenie funkcjonalności TVS-h674T dzięki wirtualizacji.**

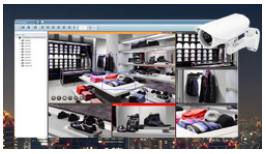
Uruchamiając wiele maszyn wirtualnych i kontenerów na TVS-h674T, można wdrażać środowiska i aplikacje dla wielu dzierżawców, aby zwiększyć wydajność zarządzania i obniżyć koszty sprzętu. W połączeniu z aplikacją Network & Virtual Switch, która zwiększa interoperacyjność między maszynami wirtualnymi, kontenerami, serwerem QNAP NAS i innymi urządzeniami fizycznymi w sieci, można elastycznie przydzielać fizyczne i wirtualne zasoby sieciowe, aby uprościć wdrażanie sieci.
**Oparty na ZFS system operacyjny QuTS hero zwiększa wydajność NAS i integralność danych**

QuTS hero łączy system QTS oparty na aplikacji ze 128-bitowym systemem plików ZFS, aby zapewnić elastyczne zarządzanie pamięcią masową, kompleksową ochronę danych i zoptymalizowaną wydajność, aby sprostać złożoności i wymaganiom wydajności nowoczesnego IT. Od zarządzania pamięcią masową, wirtualizacji po wspólne przepływy pracy w mediach, QuTS hero usprawnia zadania o znaczeniu krytycznym dla firmy.



**Bezpieczeństwo danych.**

TVS-h674T jest wyposażony w elastyczne ustawienia uprawnień i środki bezpieczeństwa. Oprócz blokowania adresów IP, weryfikacji dwuetapowej i połączenia HTTPS, istnieje więcej aplikacji, które pomagają zapewnić optymalną ochronę NAS przed zagrożeniami, takimi jak złośliwe oprogramowanie i hakerzy.



**Monitoring wideo.**

QVR Elite to oparte na subskrypcji rozwiązanie firmy QNAP do inteligentnego monitoringu, które umożliwia łatwe zbudowanie systemu monitoringu o niższym całkowitym koszcie posiadania i wyższej skalowalności. Nagrania zapisywane są jako pliki MP4, co umożliwia odtwarzanie na niemal każdym urządzeniu. QVR Elite integruje również rozwiązania QNAP oparte na sztucznej inteligencji, aby tworzyć inteligentne rozpoznawanie twarzy w sklepach i systemach dostępu do drzwi za pomocą QNAP NAS. W modelu TVS-h674T można zorganizować wydzieloną, niezależną przestrzeń do przechowywania danych z monitoringu i cieszyć się uproszczonym zarządzaniem kamerą, przydzielaniem miejsca do przechowywania, podglądem na żywo i odtwarzaniem z kamery.
**Elastycznie przełączaj się na system operacyjny QTS**

Model TVS-h674T obsługuje również QTS - standardowy system operacyjny NAS firmy QNAP - który zapewnia większą codzienną wydajność, efektywne wykorzystanie pamięci i zaletę automatycznego poziomowania Qtier. Możesz także przeprowadzić migrację dysków z obecnego serwera NAS opartego na systemie QTS do TVS-h674T.
**Zabezpieczenie danych NetBak PC Agent.**

NetBak PC Agent **zapewnia tworzenie kopii zapasowych systemu** i pełne przywracanie urządzeń dla aplikacji, ustawień systemowych i danych z komputerów PC i serwerów Windows®. Możesz łatwo połączyć swojego klienta Windows z QNAP NAS za pomocą zaledwie kilku kliknięć i tworzyć zadania tworzenia kopii zapasowych. NetBak PC Agent **obsługuje również przywracanie bez wyłączania**, co zapewnia większą elastyczność użytkowania.

**Dowiedz się więcej na temat systemu QNAP QTS:**




## Produkt posiada dodatkowe opcje:

**Rozszerzenie gwarancji do 5 lat**: Gwarancja Standard - 3 lata , Gwarancja QNAP rozszerzona do 5 lat [EXTW-BROWN-2Y] (+ 1 880,95 zł )
**Gwarancja QNAP NBD**: Brak NBD , NBD 1 rok (+ 1 422,36 zł ), NBD 2 lata (+ 2 844,72 zł ), NBD 3 lata (+ 4 267,12 zł ), NBD 4 lata (+ 5 689,48 zł ), NBD 5 lat (+ 7 111,84 zł )
**Gwarancja QNAP NBD Onsite**: Brak NBD Oniste , NBD Onsite 1 rok (+ 2 506,48 zł ), NBD Onsite 2 lata (+ 5 012,96 zł ), NBD Onsite 3 lata (+ 7 519,49 zł ), NBD Onsite 4 lata (+ 10 025,97 zł ), NBD Onsite 5 lat (+ 12 532,45 zł )

## Specyfikacja sprzętowa

| | | |
|---|---|---|
| Procesor | Procesor Intel® Core™ i5-12400 6-rdzeniowy /12-wątkowy do 4,4 GHz GHz | |
| | Architektura procesora | 64-bitowy x86 |
| | Procesory graficzne | Intel® UHD Graphics 730 |
| | Koprocesor arytmetyczny FPU | TAK |
| | Mechanizm szyfrowania | TAK (AES-NI) |
| | Transkodowanie wspomagane sprzętowo | TAK |
| | Pamięć systemowa | 32 GB SODIMM DDR4 (2 x 16 GB) |
| | Maksymalna pojemność pamięci | 64 GB (2 x 32 GB) |
| | Gniazdo pamięci | 2 x SO-DIMM DDR4 |
| | Pamięć flash | 5 GB (ochrona systemu operacyjnego przed podwójnym roz |
| | Wnęka dysków | 6 dysków 3,5-calowych SATA 6 Gb/s, 3 Gb/s |
| | Kompatybilność dysków | 3,5-calowe wnęki:<br>3,5-calowe dyski twarde SATA<br>2,5-calowe dyski twarde SATA<br>2,5-calowe dyski SSD SATA |
| | Wymieniany podczas pracy | TAK |
| | M.2 Slot | 2 gniazda M.2 2280 PCIe Gen4 x4 |
| | Obsługa przyspieszenia pamięci podręcznej SSD | TAK |
| | GPU pass-through | TAK |
| Port 2,5 Gigabit Ethernet (2,5G/1G/100M) | 2 (2,5G/1G/100M/10M) | |
| Wake on LAN (WOL) | TAK | |
| Ramka Jumbo | TAK | |
| Gniazdo PCIe | 2<br>Gniazdo 1: PCIe Gen 4 x16<br>Gniazdo 2: PCIe Gen 4 x4 | |
| Port USB 3.2 Gen 2 (10 Gb/s) | 1 x Type-C USB 3.2 Gen 2 10 Gb<br>/s 2 x Type-A USB 3.2 Gen 2 10 Gb/s | |
| Wyjście HDMI | 1, HDMI 1.4b (do 4096 x 2160 @ 30Hz) | |
| Kształt | Tower | |
| Wskaźniki LED | HDD 1-6, status, LAN, port USB, port M.2 | |
| Wyświetlacz LCD/przycisk | TAK | |
| Przyciski | Zasilanie, Reset, Kopiowanie USB | |
| Wymiary (wys. x szer. x gł.) | 188.2 × 264.3 × 280.8 mm | |
| Waga (netto) | 6,36 kg | |
| Waga (brutto) | 7,93 kg | |
| Temperatura robocza | 0 - 40 °C (32°F - 104°F) | |
| Temperatura dysków | -20 - 70°C (-4°F - 158°F) | |
| Wilgotność względna | 5-95% bez kondensacji, temperatura mokrego termometru: 27 ˚C (80,6 ˚F) | |
| Zasilacz | 350 W, 100–240 V | |

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| Pobór mocy: Tryb uśpienia HDD | 39,911 W |
| Pobór mocy: Tryb pracy, typowy | 79,363 W<br>Testy wykonane przy całkowicie zapełnionych dyskach twardych WD10EFRX. |
| Wentylator | Wentylator systemu: 2 x 92 mm, 12 V prądu stałego<br>Wentylator procesora:1 x 60 mm |
| Ostrzeżenie systemowe | Brzęczyk |
| Złącze bezpieczeństwa Kensington | TAK |
| Max. Number of Concurrent Connections (CIFS) - with Max. Memory | 2500 |

## Specyfikacja oprogramowania

| | |
|---|---|
| Operating System | QuTS hero h5.0.0 |
| Supported Client Operating Systems | 1. Apple Mac OS 10.10 or later<br>2. Ubuntu 14.04, CentOS 7, RHEL 6.6, SUSE 12 or later Linux<br>3. IBM AIX 7, Solaris 10 or later UNIX<br>4. Microsoft Windows 7, 8, 10, and 11<br>5. Microsoft Windows Server 2008 R2, 2012, 2012 R2, 2016, and 2019 |
| Supported Browsers | 1. Apple Safari (latest version)<br>2. Google Chrome (latest version)<br>3. Microsoft Edge (latest version)<br>4. Mozilla Firefox (latest version) |
| Supported Languages | Chinese (Traditional & Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, and Turkish |
| Storage Pool | Ok |
| SED Storage Pool | Ok |
| Maximum Pool size | 1024 TB |
| Maximum number of storage pool | 128 |
| Shared Folder Type | Thick, Thin |
| Maximum shared folder size | 1024 TB |
| Maximum number of shared folder | 256 |
| JBOD Expansion | Ok |
| VJBOD / VJBOD Cloud | Ok |
| iSCSI Service | Ok |
| Fibre Channel Service | Ok |
| LUN Type | Thick, Thin |
| Block-based iSCSI LUN | Ok |
| Maximum LUN size | 1024 TB |
| Maximum number of targets LUN | 256 |
| RAID Type | 1. 8-bay (and more): Single, RAID 0 (Stripe), 1, 5, 6, 10, 50, 60, Triple Mirror, Triple Parity<br>2. 6-bay: Single, RAID 0 (Stripe), 1, 5, 6, 10, 50, Triple Mirror, Triple Parity<br>3. 4-bay: Single, RAID 0 (Stripe), 1, 5, 6, 10, Triple Mirror, Triple Parity<br>4. 3-bay: Single, RAID 0 (Stripe), 1, 5, Triple Mirror, Triple Parity |
| RAID Group | To ensure data security, system stability, and storage performance, the maximum number of drives for a single RAID group is now 16 (applicable to RAID 5, RAID 6, RAID TP, and subgroups of RAID 50 and RAID 60). Nevertheless, users can combine multiple RAID groups into a large storage pool that contains more than 16 drives, using RAID 50, RAID 60, or RAID 10 as the RAID configuration. This enhancement will only be applied to new RAID groups. All existing RAID groups and storage systems will not be affected. |
| RAID Expansion (by replacing bigger Disks) | Ok |

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|---|---|
| Storage Pool Expansion (by adding RAID Group) | Ok |
| RAID Hot Spare | Global, Local |
| RAID Sync/Rebuild/Scrubbing | Ok |
| End-to-End data integrity | Ok |
| Silent error detection and self-healing | Ok |
| Internal drive | ZFS |
| External drive | EXT3, EXT4, NTFS, FAT32, HFS+, and exFAT |
| Disk, Enclosure Locate | Ok |
| Disk S.M.A.R.T. Scan | Ok |
| Disk S.M.A.R.T. Data Migration | Ok |
| Ironwolf Health Management | Ok |
| Secure Erase | Ok |
| SSD Trim | Ok |
| SSD Life Estimation | Ok |
| Disk Roaming | Ok |
| Disk Standby | Ok |
| Shared Folder Snapshot | Ok |
| LUN Snapshot | Ok |
| Maximum Snapshot (Per System) | Check maximum number of snapshots of your NAS |
| Maximum Snapshot (Per Volume / LUN) | Check maximum number of snapshots of your NAS |
| Minimum Snapshot Interval | 1 minute |
| Snapshot Retention Policy | Ok |
| Self-serve Snapshot Recovery | Ok |
| Application Consisted Snapshot | Ok |
| Snapshot Full Clone | Ok |
| Snapshot Instant Clone | Ok |
| Snapshot Replica / Vault | Ok |
| SSD read-only Cache | Ok |
| SSD read & write log cache | Ok |
| SSD dedicated ZIL cache | Ok |
| SSD Cache Maximum Size | Check your QNAP NAS cache capacity and RAM requirements |
| SSD Cache RAID | 0, 1, 10 (journal) |
| External Device Management | Ok |
| Mount Smart Phone (MTP) | Ok |
| External RAID Device (QNAP so on) Management (External Device Mode) | Ok |
| External RAID Device (QNAP so on) Management (NAS Mode) | Ok |
| File Server | 1. File sharing across Windows, Mac, and Linux/UNIX<br>2. Microsoft networking (CIFS/SMB)<br>3. Apple networking (AFP)<br>4. NFS version 3/4 services |
| FTP Server | 1. FTP, SFTP and TFTP protocols<br>2. FTP over SSL/TLS (explicit FTPS)<br>3. FXP support |
| Maximum FTP connection | 1024 |
| Shared Folder Data Compression | Ok |
| Shared Folder Data Deduplication | Ok |
| Shared Folder WORM | Ok |
| File Station (Web) | Ok |
| Object Storage | Ok |
| Local user account | 16,000 |
| Local group account | 512 |
| Domain user/group account | 200,000 |
| Domain Security | Ok |
| Domain Controller | Ok |
| Shared folder permission | Ok |
| Windows ACL | Ok |
| User quota | Ok |
| Group quota | Ok |
| Folder quota | Ok |
| Home folder | Ok |
| Resource Monitor | Ok |
| SNMP | V2, V3 |
| Network recycle bin | 1. Recover files deleted using AFP, CIFS/SMB, and File Station<br>2. Automatic cleanup and file type filter |
| System Log & Notification Center | Log recording: 3,000 event per second |

| | |
|---|---|
| Smart Fan | Ok |
| Schedule on/off | Ok |
| Internet protocol | IPv4, IPv6 |
| Virtual Switch | Ok |
| Port trunking | Ok, (7 modes) |
| VLAN | Ok |
| DHCP Server | Ok |
| DDNS (Dynamic Domain Name Service) | Ok |
| Network access protection with auto-blocking | SSH, Telnet, HTTP(S), FTP, CIFS/SMB, and AFP |
| Security Counselor | Ok |
| Malware Remover | Ok |
| AES 256-bit Folder Encryption validated by FIPS 140-2 CAVP | Ok |
| 2-step verification | Ok |
| Allow/Deny List | Ok |
| Access Protection | Ok |
| Service binding | Ok |
| Firewall | Ok |
| vSphere Web Client Plug-in | Ok |
| VMware vSphere VAAI for iSCSI | Ok |
| VMware vSphere VAAI for NAS | Ok |
| Windows ODX | Ok |
| Windows/VMware Snapshot Agent | Ok |
| HTTP/HTTPS Connections | TLS 1.0/1.1/1.2/1.3 |
| Supports WebDAV Connection | Ok |
| Supports Virtual Hosts | 32 |
| Qsync | Ok |
| | Note: At least 1 GB RAM is required. |
| [Qsync] Management Mode | User customization, Central |
| [Qsync] Qsync client supported platforms | Windows, macOS, Ubuntu, Android, and iOS |
| [Qsync] Maximum number of version control | 64 |
| HybridMount | Ok |
| | Note: At least 1 GB RAM is required. |
| [HybridMount] File Cloud Gateway | Concurrent Connections = 80 Upload & 80 Download |
| [HybridMount] Network Drive Mount | Ok |
| [HybridMount] Free cloud gateway sessions | 2 |
| HBS (Hybrid Backup Sync) | Ok |
| | Note: At least 1 GB RAM is required. |
| [HBS (Hybrid Backup Sync)] NAS to NAS backup | Ok |
| [HBS (Hybrid Backup Sync)] Cloud Backup | Ok |
| [HBS (Hybrid Backup Sync)] Cloud Sync | Ok |
| [HBS (Hybrid Backup Sync)] 2-way and Active Sync | Ok |
| [HBS (Hybrid Backup Sync)] Backup Deduplication | Ok |
| [HBS (Hybrid Backup Sync)] Apple Time Machine Backup | Ok |
| [HBS (Hybrid Backup Sync)] External drive backup | Ok |
| [HBS (Hybrid Backup Sync)] Maximum number of backup job | 400 |
| Hyper Data Protector | Ok |
| Boxafe | Ok |
| | Note: At least 4 GB RAM is required. |
| [Boxafe] Office 365 Backup | Ok |
| [Boxafe] Google Workspace Backup | Ok |
| [Boxafe] Full-text search | Ok |
| Qsirch | Ok |
| | Note: This feature is supported by all QNAP NAS devices with at least 2 GB of memory |
| [Qsirch] Previews | Photos, music, videos, PDFs, Gmail, and others |

| | |
|---|---|
| [Qsirch] Integrate Mac Finder | Ok |
| [Qsirch] Advanced picture search | Ok |
| [Qsirch] Search filters | Ok |
| QuMagie | Ok |
| | Note: At least 1 GB RAM is required. |
| [QuMagie] Browse photos | Ok |
| [QuMagie] Virtual and smart albums | Ok |
| [QuMagie] AI-assisted photo management | People, things, places, and others |
| Antivirus (free) | Ok |
| McAfee (License) | Ok |
| QVPN Service | Ok |
| | Note: At least 1 GB RAM is required. |
| [QVPN Service] Remote Access | PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary) |
| [QVPN Service] Supportedd utility and mobile app | Windows, macOS, iOS, and Android |
| [QVPN Service] Supported maximum clients | 100 |
| HD Station | Ok |
| LDAP Server | Ok |
| RADIUS | Ok |
| SQL server | Ok |
| License Center | Ok |
| Multimedia Console | Ok |
| Photo Station | Ok |
| Music Station | Ok |
| Video Station | Ok |
| Download Station | Ok |
| Notes Station | Ok |
| Qfiling | Ok |
| Media Streaming add-on | Ok |
| QmailAgent | Ok |
| QuWAN | Ok |
| DA Driver Analyzer | Ok |
| Q'center | Ok |
| | Note: The application is available in the App Center and in virtual appliance marketplaces (VMware vSphere ESXi and Microsoft Hyper-V). |
| Q'center Server | Ok |
| Q'center Agent | Ok |
| Connect to Q'center | Ok |
| Virtualization Station | Ok |
| | Note: At least 4 GB RAM is required. |
| [Virtualization Station] Supports Virtual machine instances | Windows, Linux, Unix, and Android |
| [Virtualization Station] VM importing, exporting, cloning, snapshot capturing, backup, and restoration | All function is Fine. |
| [Virtualization Station] Virtual switches | Can create a virtual switch |
| [Virtualization Station] GPU pass-through | GPU function is fine |
| [Virtualization Station] Suggested number of virtual machine instances | 24 |
| | The actual number of virtual machine instances may vary by the memory installed on NAS (e.g. 1 VM= 1 thread for 1 vCPU and 1GB memory). Please expend memory if needed. |
| Container Station | Ok |
| | Note: At least 1 GB RAM is required. |
| [Container Station] Supported type | LXC/LXD and Docker |
| | Note: LXD has been supported after Container Station 2.4 |
| [Container Station] Docker Hub Registry | Ok |
| [Container Station] Container importing and exporting | Ok |
| [Container Station] Console mode | Ok |
| Linux Station | Ok |

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|---|---|
| | Notification: At least 4 GB RAM is required. |
| [Linux Station] Supports Ubuntu versions | 16.04, 18.04, and 20.04 |
| Linux Station Center | Ok |
| QVR Elite | Ok |
| | Note: At least 1 GB RAM is required. The maximum number of channels supported varies by NAS model, network configuration, and camera settings. For more information, visit https://www.qnap.com/go/qvr-nas-selector. |
| [QVR Elite] Recording Technique | Standard MP4 file based |
| [QVR Elite] License Type | Subscription-based |
| [QVR Elite] User-defined trigger events | Ok |
| [QVR Elite] QVR Pro Client (Desktop) | Windows, macOS, and QNAP HybridDesk Station |
| [QVR Elite] QVR Pro Client (Mobile) | Android and iOS |
| [QVR Elite] Recording camera streams | H.264 |
| [QVR Elite] Free built-in camera channels | 2 |
| [QVR Elite] Expandable camera channels | Developing |
| [QVR Pro Client] Live 4K H.265 (6M) channel Number @ 8 x 1080P H.264 recording channls (Use HybridDesktop Platform) (Expected) | N/A |
| [QVR Pro Client] Live 1080P H.264 (5M) channel Number @ 8 x 1080P H.264 recording channls (Use HybridDesktop Platform) (Expected) | N/A |
| [QVR Pro Client] Live 720P (3M) H.264 channel Number @ 8 x 1080P H.264 recording channls (Use HybridDesktop Platform) (Expected) | N/A |
| QVR Center | Ok |
| | Note: At least 4 GB RAM is required. |
| [QVR Center] Log management | Ok |
| [QVR Center] Central monitoring across multiple servers | Ok |
| Operating System | QTS 5.0.1 |
| Supported Client Operating Systems | 1. Apple Mac OS 10.10 or later<br>2. Ubuntu 14.04, CentOS 7, RHEL 6.6, SUSE 12 or later Linux<br>3. IBM AIX 7, Solaris 10 or later UNIX<br>4. Microsoft Windows 7, 8, 10 and 11<br>5. Microsoft Windows Server 2008 R2, 2012, 2012 R2, 2016, and 2019 |
| Supported Browsers | 1. Apple Safari (latest version)<br>2. Google Chrome (latest version)<br>3. Microsoft Edge (latest version)<br>4. Mozilla Firefox (latest version) |
| Supported Languages | Chinese (Traditional & Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, and Turkish |
| Storage Pool | Ok |
| SED Storage Pool | Ok |
| Maximum Pool size | 308 TB |
| Maximum number of storage pool | 128 |
| Volume Type | Thick, Thin, Static |
| Maximum volume size | 250 TB |
| | Note: At least 4 GB RAM is required. |
| Maximum number of volume | 128 |
| Maximum shared folder size | 250 TB |
| Maximum number of shared folder | 512 |
| JBOD Expansion | Ok |
| VJBOD / VJBOD Cloud | Ok |
| iSCSI Service | Ok |
| Fibre Channel Service | Ok |
| LUN Type | Thick, Thin |
| File-based iSCSI LUN | Ok |
| Block-based iSCSI LUN | Ok |

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| Maximum LUN size | 250 TB<br><br>Note: At least 4 GB RAM is required. |
| Maximum number of targets LUN | 256 |
| LUN feature | 1. LUN Mapping (LUN can be moved between iSCSI and FC)<br>2. LUN Masking<br>3. WWPN Aliases Import/Export<br>4. FC Port Group |
| Auto Tiering | Ok<br><br>Requires minimum 2GB memory. |
| RAID Type | 1. 8-bay (and more): JBOD, Single, RAID 0, 1, 5, 6, 10, 50, 60<br>2. 6-bay: JBOD, Single, RAID 0, 1, 5, 6, 10, 50<br>3. 4-bay: JBOD, Single, RAID 0, 1, 5, 6, 10<br>4. 2-bay: JBOD, Single, RAID 0, 1 |
| RAID Group | To ensure data security, system stability, and storage performance, the maximum number of drives for a single RAID group is now 16 (applicable to RAID 5, RAID 6, RAID TP, and subgroups of RAID 50 and RAID 60). Nevertheless, users can combine multiple RAID groups into a large storage pool that contains more than 16 drives, using RAID 50, RAID 60, or RAID 10 as the RAID configuration. This enhancement will only be applied to new RAID groups. All existing RAID groups and storage systems will not be affected. |
| RAID Level Migration | Ok |
| RAID Expansion (by adding Disk) | Ok |
| RAID Expansion (by replacing bigger Disks) | Ok |
| Storage Pool Expansion (by adding RAID Group) | Ok |
| RAID Hot Spare | Global, Local |
| RAID Sync/Rebuild/Scrubbing | Ok |
| Internal drive | EXT4 |
| External drive | EXT3, EXT4, NTFS, FAT32, HFS+, and exFAT (optional for ARM model)<br><br>Note: To use exFat in certain models you must purchase an exFAT driver license from License Center. |
| Disk, Enclosure Locate | Ok |
| Disk S.M.A.R.T. Scan | Ok |
| Disk S.M.A.R.T. Data Migration | Ok |
| Ironwolf Health Management | Ok |
| Secure Erase | Ok |
| SSD Trim | Ok |
| SSD Life Estimation | Ok |
| Disk Roaming | Ok |
| Disk Standby | Ok |
| Volume Snapshot | Ok |
| LUN Snapshot | Ok |
| Maximum Snapshot (Per System) | Check maximum number of snapshots of your NAS |
| Maximum Snapshot (Per Volume / LUN) | Check maximum number of snapshots of your NAS |
| Minimum Snapshot Interval | 5 minutes |
| Snapshot Retention Policy | Ok |
| Self-serve Snapshot Recovery | Ok |
| Application Consisted Snapshot | Ok |
| Snapshot Full Clone | Ok |
| Snapshot Replica / Vault | Ok |
| SSD read-only Cache | Ok |
| SSD read-write cache | Ok |
| SSD write-only cache | Ok |
| SSD Cache Maximum Size | Check your QNAP NAS cache capacity and RAM requirements |
| SSD Cache RAID | 0, 1, 5, 6, 10 |
| SSD profiling tool | Ok |
| External Device Management | Ok |

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| Mount Smart Phone (MTP) | Ok |
| External RAID Device (QNAP so on) Management (External Device Mode) | Ok |
| External RAID Device (QNAP so on) Management (NAS Mode) | Ok |
| File Server | 1. File sharing across Windows, Mac, and Linux/UNIX<br>2. Microsoft networking (CIFS/SMB)<br>3. Apple networking (AFP)<br>4. NFS version 3/4 services |
| FTP Server | 1. QuFTP<br>2. FTP, SFTP and TFTP protocols<br>3. FTP over SSL/TLS (explicit FTPS)<br>4. FXP support |
| Maximum FTP connection | 1024 |
| File Station (Web) | Ok |
| Object Storage | Ok |
| Local user account | 4,096 |
| Local group account | 512 |
| Domain user/group account | 200,000 |
| Domain Security | Ok |
| Domain Controller | Ok |
| Shared folder permission | Ok |
| Advanced folder permission | Ok, (AFP, CIFS/SMB, FTP, and File Station) |
| Windows ACL | Ok, (CIFS/SMB) |
| User quota | Ok |
| Group quota | Ok |
| Folder quota | Ok, (Snapshot shared folder) |
| Home folder | Ok |
| Resource Monitor | Ok |
| SNMP | V2, V3 |
| Network recycle bin | 1. Recover files deleted using AFP, CIFS/SMB, and File Station<br>2. Automatic cleanup and file type filter |
| System Log & Notification Center | Log recording: 3,000 event per second |
| Smart Fan | Ok |
| Schedule on/off | Ok |
| Internet protocol | IPv4, IPv6 |
| Virtual Switch | Ok |
| Port trunking | Ok, (7 modes) |
| VLAN | Ok |
| DHCP Server | Ok |
| DDNS (Dynamic Domain Name Service) | Ok |
| Network access protection with auto-blocking | SSH, Telnet, HTTP(S), FTP, CIFS/SMB, and AFP |
| Security Counselor | Ok |
| Malware Remover | Ok |
| AES 256-bit Volume Encryption validated by FIPS 140-2 CAVP | Ok |
| 2-step verification | Ok |
| Allow/Deny List | Ok |
| Access Protection | Ok |
| Service binding | Ok |
| Firewall | Ok |
| vSphere Web Client Plug-in | Ok |
| VMware vSphere VAAI for iSCSI | Ok |
| VMware vSphere VAAI for NAS | Ok |
| Windows ODX | Ok |
| Windows/VMware Snapshot Agent | Ok |
| HTTP/HTTPS Connections | TLS 1.0/1.1/1.2/1.3 |
| Supports WebDAV Connection | Ok |
| Supports Virtual Hosts | 32 |
| Qsync | Ok<br><br>Note: At least 1 GB RAM is required. |
| [Qsync] Management Mode | User customization, Central |
| [Qsync] Qsync client supported platforms | Windows, macOS, Ubuntu, Android, and iOS |
| [Qsync] Maximum number of version control | 64 |
| HybridMount | Ok |

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| | Note: At least 1 GB RAM is required. |
| [HybridMount] File Cloud Gateway | Concurrent Connections = 20 Upload & 20 Download |
| [HybridMount] Network Drive Mount | Ok |
| [HybridMount] Free cloud gateway sessions | 2 |
| HBS (Hybrid Backup Sync) | Ok |
| | Note: At least 1 GB RAM is required. |
| [HBS (Hybrid Backup Sync)] NAS to NAS backup | Ok |
| [HBS (Hybrid Backup Sync)] Cloud Backup | Ok |
| [HBS (Hybrid Backup Sync)] Cloud Sync | Ok |
| [HBS (Hybrid Backup Sync)] 2-way and Active Sync | Ok |
| [HBS (Hybrid Backup Sync)] Backup Deduplication | Ok |
| [HBS (Hybrid Backup Sync)] Apple Time Machine Backup | Ok |
| [HBS (Hybrid Backup Sync)] External drive backup | Ok |
| [HBS (Hybrid Backup Sync)] Maximum number of backup job | 400 |
| Hyper Data Protector | Ok |
| Boxafe | Ok |
| | Note: At least 4 GB RAM is required. |
| [Boxafe] Office 365 Backup | Ok |
| [Boxafe] Google Workspace Backup | Ok |
| [Boxafe] Full-text search | Ok |
| Qsirch | Ok |
| | Note: This feature is supported by all QNAP NAS devices with at least 2 GB of memory |
| [Qsirch] Previews | Photos, music, videos, PDFs, Gmail, and others |
| [Qsirch] Integrate Mac Finder | Ok |
| [Qsirch] Advanced picture search | Ok |
| [Qsirch] Search filters | Ok |
| QuMagie | Ok |
| | Note: At least 1 GB RAM is required. |
| [QuMagie] Browse photos | Ok |
| [QuMagie] Virtual and smart albums | Ok |
| [QuMagie] AI-assisted photo management | People, things, places, and others |
| Antivirus (free) | Ok |
| McAfee (License) | Ok |
| QVPN Service | Ok |
| | Note: At least 1 GB RAM is required. |
| [QVPN Service] Remote Access | PPTP, L2TP/IPSec, OpenVPN, WireGuard, QBelt (QNAP proprietary) |
| [QVPN Service] Supportedd utility and mobile app | Windows, macOS, iOS, and Android |
| [QVPN Service] Supported maximum clients | 100 |
| HD Station | Ok |
| LDAP Server | Ok |
| RADIUS | Ok |
| SQL server | Ok |
| License Center | Ok |
| Multimedia Console | Ok |
| Photo Station | Ok |
| Music Station | Ok |
| Video Station | Ok |
| Download Station | Ok |
| Notes Station | Ok |
| Qfiling | Ok |
| Media Streaming add-on | Ok |
| QmailAgent | Ok |
| QuWAN | Ok |
| DA Driver Analyzer | Ok |
| Q'center | Ok |

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| | Note: The application is available in the App Center and in virtual appliance marketplaces (VMware vSphere ESXi and Microsoft Hyper-V). |
| Q'center Server | Ok |
| Q'center Agent | Ok |
| Connect to Q'center | Ok |
| Virtualization Station | Ok |
| | Note: At least 4 GB RAM is required. |
| [Virtualization Station] Supports Virtual machine instances | Windows, Linux, Unix, and Android |
| [Virtualization Station] VM importing, exporting, cloning, snapshot capturing, backup, and restoration | All function is Fine. |
| [Virtualization Station] Virtual switches | Can create a virtual switch |
| [Virtualization Station] GPU pass-through | Not support GPU |
| [Virtualization Station] Suggested number of virtual machine instances | 24 |
| | The actual number of virtual machine instances may vary by the memory installed on NAS (e.g. 1 VM= 1 thread for 1 vCPU and 1GB memory). Please expend memory if needed. |
| Container Station | Ok |
| | Note: At least 1 GB RAM is required. |
| [Container Station] Supported type | LXC/LXD and Docker |
| | Note: LXD has been supported after Container Station 2.4 |
| [Container Station] Docker Hub Registry | Ok |
| [Container Station] Container importing and exporting | Ok |
| [Container Station] Console mode | Ok |
| Linux Station | Ok |
| | Notification: At least 4 GB RAM is required. |
| [Linux Station] Supports Ubuntu versions | 18.04, and 20.04 |
| Linux Station Center | Ok |
| QVR Pro | Ok |
| | Note: At least 4 GB RAM is required. The maximum number of channels supported varies by NAS model, network configuration, and camera settings. For more information, visit https://www.qnap.com/go/qvr-nas-selector. |
| [QVR Pro] Recording Technique | Index database based |
| [QVR Pro] License Type | Perpetual |
| [QVR Pro] User-defined trigger events | Ok |
| [QVR Pro] Metadata | Ok |
| [QVR Pro] QVR Pro Client (Desktop) | Windows, macOS, and QNAP HybridDesk Station |
| [QVR Pro] QVR Pro Client (Mobile) | Android and iOS |
| [QVR Pro] Recording camera streams | H.264 |
| [QVR Pro] Free built-in camera channels | 8 |
| QVR Elite | Ok |
| | Note: At least 1 GB RAM is required. The maximum number of channels supported varies by NAS model, network configuration, and camera settings. For more information, visit https://www.qnap.com/go/qvr-nas-selector. |
| [QVR Elite] Recording Technique | Standard MP4 file based |
| [QVR Elite] License Type | Subscription-based |
| [QVR Elite] User-defined trigger events | Ok |
| [QVR Elite] QVR Pro Client (Desktop) | Windows, macOS, and QNAP HybridDesk Station |
| [QVR Elite] QVR Pro Client (Mobile) | Android and iOS |
| [QVR Elite] Recording camera streams | H.264 |
| [QVR Elite] Free built-in camera channels | 2 |
| QVR Pro Client | Ok |
| [QVR Pro Client] Dynamic View Layout | Ok |
| [QVR Pro Client] Windows | Ok |
| [QVR Pro Client] Mac | Ok |
| [QVR Pro Client] HybridDesktop | Ok |
| [QVR Pro Client] iOS | Ok |

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| [QVR Pro Client] Android | Ok |
| QVR Center | Ok |
| | Note: At least 4 GB RAM is required. |
| [QVR Center] Log management | Ok |
| [QVR Center] Central monitoring across multiple servers | Ok |
| QVR Guard | Ok |
| | Note: At least 4 GB RAM is required. |
| [QVR Guard] Failover design | Ok |
| [QVR Guard] Viewing task details | Ok |
| [QVR Guard] Automatic switch between Standby and Takeover modes | Ok |
| QVR Human | Ok |
| QVR Face | Ok |
| | The maximum number of channels supported varies by NAS model, network configuration, and camera settings. For more information, visit https://www.qnap.com/solution/qvr-face/en-us/ |
| QVR DoorAccess | Ok |

## Zawartość opakowania

TVS-h674T
Kabel Ethernet x 1
Przewód zasilający x 1
Śruba z łbem płaskim (do 3,5" HDD) x 32
Śruba z łbem płaskim (do 2,5" HDD) x 24
Radiator M.2 SSD x 2
Instrukcja szybkiej instalacji (QIG)