Dane aktualne na dzień: 14-11-2026 06:51

Link do produktu: https://sklepqnap.pl/qnap-ts-h765eu-8g-p-3230.html

# QNAP TS-h765eU-8G



| | |
|---|---|
| Cena | **4 873,13 zł** |
| Dostępność | **Na zamówienie** |
| Numer katalogowy | **QNA_TSH765EU8G** |
| Kod producenta | **TS-h765eU-8G** |
| Kod EAN | **4711103085721** |
| Producent | **QNAP** |
| Pamięć RAM | **8GB** |
| Port 2,5 GbE | **2** |

## Opis produktu




## QNAP TS-h765eU-8G

Montowany na stelażu 1U model TS-h765eU jest **przeznaczony do środowisk o ograniczonej przestrzeni**, oferując wydajne i niezawodne rozwiązanie pamięci masowej dla różnych potrzeb. Dzięki zastosowaniu najnowszego procesora Intel® Atom z serii x7000C model TS-h765eU jest wyposażony w cztery 3,5-calowe wnęki na dyski i trzy gniazda E1.S / M.2 PCIe NVMe zapewniające wyjątkowe możliwości rozbudowy, **co czyni go idealną stacją NAS do zastosowań wymagających wysokiej wydajności i wielozadaniowości**. Urządzenie TS-h765eU obsługuje system operacyjny QuTS hero oparty na systemie plików ZFS, który zapewnia integralność danych i ochronę typu WORM, zapewniając niezmienność danych.

Cechy wyjątkowe dysku sieciowego **QNAP TS-h765eU-8G:**

- Wydajny cztero dyskowy **serwer plików** obsługujący dyski 2,5", 3,5" SATA, SSD
- Obsługa wielu protokołów, takich jak **Rsync, FTP i CIFS/SMB do tworzenia kopii zapasowych** różnych serwerów plików
- Panel użytkownika i oprogramowanie dostępne w **języku polskim**
- Czterordzeniowy procesor Intel® Atom x7405C ze sprzętowym mechanizmem **szyfrowania AES 256bit**
- Wyposażony w **dwa porty 2,5GbE**, przewyższając podobne konkurencyjne stacje NAS, które zapewniają tylko 1GbE
- TS-h765eU **ma mniejszą głębokość obudowy** wynoszącą zaledwie 12 cali (292,1 mm)
- Wbudowana pamięć **DDR5 bez ECC** (obsługuje In-Band ECC)
- Wyposażony w trzy gniazda **E1.S / M.2 PCIe NVMe**, które oferują niezrównaną elastyczność stacji NAS przy zwiększaniu wydajności
- USB-Copy i kompleksowy backup danych na serwer i urządzenia zewnętrzne
- Obsługuje główne platformy wirtualizacji **VMware® vSphere™, Microsoft® Hyper-V® i Citrix® XenServer™**

Podstawowe funkcje **serwera QNAP** dla rozwiązań biznesowych:

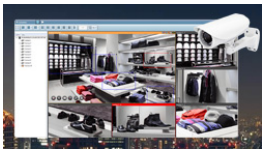


**Dostęp do danych z pracy oraz z dowolnego miejsca na świecie.**

System QNAP zapewnia szybki, a przede wszystkim bezpieczny sposób na udostępnianie danych każdemu i wszędzie. Dzięki aplikacji File Station oraz wbudowanemu **serwerowi VPN** można przeszukiwać, organizować i przenosić pliki pomiędzy QNAP, a dowolnym urządzeniem w sieci. Udostępnianie plików dla każdej platformy Windows, MAC czy Linux.
**Bezpieczeństwo danych.**



Niezależnie od tego, gdzie przetrzymujesz swoje wrażliwe dane, nieuczciwe osoby zawsze próbują wykorzystać słabości systemu. Na pomoc przychodzą dyski sieciowe QNAP. Dzięki wbudowanemu kontrolerowi RAID, **wbudowanemu szyfrowaniu AES256bit**, programowi antywirusowemu oraz zaawansowanej kontroli dostępu zabezpieczymy swoje dane przed ich utratą.



**Monitoring wideo.**

W modelu TS-h765eU dostępny jest system **Surveillance Station** – profesjonalne rozwiązanie do monitoringu z przyjaznym dla użytkownika interfejsem. System oferuje szeroki wybór **ponad 8000 kamer ONVIF ponad 200 producentów** oraz rozszerzalne licencje na kanały kamer IP. Umożliwia **monitoring w czasie rzeczywistym**, nagrywanie i odtwarzanie wideo oraz audio, a także oferuje szeroki wachlarz ustawień użytkownika.

**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:

**Gwarancja oraz wsparcie**: Standard , EPA Care Pack (+ 721,43 zł )
**Gwarancja QNAP NBD**: Brak NBD , NBD 1 rok (+ 509,54 zł ), NBD 2 lata (+ 1 019,07 zł ), NBD 3 lata (+ 1 528,61 zł ), NBD 4 lata (+ 2 038,15 zł ), NBD 5 lat (+ 2 547,69 zł )
**Gwarancja QNAP NBD Onsite**: Brak NBD Oniste , NBD Onsite 1 rok (+ 1 593,66 zł ), NBD Onsite 2 lata (+ 3 187,32 zł ), NBD Onsite 3 lata (+ 4 780,93 zł ), NBD Onsite 4 lata (+ 6 374,64 zł ), NBD Onsite 5 lat (+ 7 968,30 zł )

## Specyfikacja sprzętowa

| | |
|---|---|
| Procesor | Intel Atom x7405C 4-rdzeniowy, do 3.4GHz |
| Architektura procesora | 64-bitowy x86 |
| Koprocesor arytmetyczny FPU | Tak |
| Mechanizm szyfrowania | Tak (AES-NI) |
| Pamięć systemowa | 8 GB SODIMM DDR5 (1 x 8 GB), obsługujący ECC w trybie in-band |
| Maksymalna pojemność pamięci | 16 GB (1 x 16GB) |
| Gniazdo pamięci | 1 x SODIMM DDR5 |
| Pamięć flash | 8 GB (ochrona systemu operacyjnego przed podwójnym rozruchem) |
| Wnęka dysków | 4 x 3,5-calowe SATA 6Gb/s, 3Gb/s<br>3 x E1.S do 15mm (Preinstalowany adapter do obsługi M.2 2280 dla każdego slotu) |
| Kompatybilność dysków | 3,5-calowe dyski twarde SATA<br>2,5-calowe dyski SSD SATA<br>Dyski SSD E1.S NVMe PCIe<br>Dyski SSD M.2 2280 NVMe PCIe |
| Wymieniany podczas pracy | Tak |
| Gniazdo M.2 | 3 x E1.S do 15mm (Preinstalowany adapter do obsługi M.2 2280 dla każdego slotu) |
| 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) |
| Port 10 Gigabit sieci Ethernet | Opcjonalne poprzez kartę PCIe |
| Wake on LAN (WOL) | Tak |

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|---|---|
| Ramka Jumbo | Tak |
| Port USB 2.0 | 1 |
| Port USB 3.2 Gen 1 | 1 |
| Kształt | 1U Short Depth Rackmount |
| Wskaźniki LED | Power/Status, LAN, USB, HDD1-4, E1.S/PCIe SSD1~3 |
| Przyciski | Zasilanie, reset |
| Wymiary (wys. x szer. x gł.) | 43 × 430 × 292,1 mm |
| Waga (netto) | 4.51 kg |
| Temperatura robocza | 0–40°C |
| Temperatura przechowywania | -20–70°C |
| Wilgotność względna | 5-95% bez kondensacji, temperatura mokrego termometru: 27°C |
| Zasilacz | 150W, 100-240V |
| Wentylator | 3 x 40mm |
| Ostrzeżenie systemowe | Brzęczyk |
| Standardowa gwarancja | 3 |
| Maks. liczba połączeń współbieżnych (CIFS) — z maks. pojemnością pamięci | 1500 |

## Specyfikacja oprogramowania

| | |
|---|---|
| Operating System | QTS 5.2.3 |
| 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 |
| 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 | Tak |
| SED Storage Pool | Tak |
| Maximum Pool size | 308 TB |
| Maximum number of storage pool | 128 |
| Volume Type | Thick, Thin, Static |
| Maximum volume size | 250 TB<br><br>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 | Tak |
| VJBOD / VJBOD Cloud | Tak |
| iSCSI Service | Tak |
| Fibre Channel Service | Tak |
| LUN Type | Thick, Thin |
| File-based iSCSI LUN | Tak |
| Block-based iSCSI LUN | Tak |
| Maximum LUN size | 250 TB<br><br>Note: At least 4 GB RAM is required. |
| Maximum number of targets LUN | 128 |
| LUN feature | 1. LUN Mapping (LUN can be moved between iSCSI and FC)<br>2. LUN Masking<br>3. WWPN Aliases Import/Export |

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| | 4. FC Port Group |
| Auto Tiering | Tak |
| RAID Type | Requires minimum 2GB memory.<br>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 | Tak |
| | 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 | Tak |
| RAID Expansion (by adding Disk) | Tak |
| RAID Expansion (by replacing bigger Disks) | Tak |
| Storage Pool Expansion (by adding RAID Group) | Tak |
| RAID Hot Spare | Global, Local |
| RAID Sync/Rebuild/Scrubbing | Tak |
| 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 | Tak |
| Disk S.M.A.R.T. Scan | Tak |
| Disk S.M.A.R.T. Data Migration | Tak |
| Ironwolf Health Management | Tak |
| Secure Erase | Tak |
| SSD Trim | Tak |
| SSD Life Estimation | Tak |
| Disk Roaming | Tak |
| Disk Standby | Tak |
| Volume Snapshot | Tak |
| LUN Snapshot | Tak |
| 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 | Tak |
| Self-serve Snapshot Recovery | Tak |
| Application Consisted Snapshot | Tak |
| Snapshot Full Clone | Tak |
| Snapshot Replica / Vault | Tak |
| SSD read-only Cache | Tak |
| SSD read-write cache | Tak |
| SSD write-only cache | Tak |
| SSD Cache Maximum Size | Check your QNAP NAS cache capacity and RAM requirements |
| SSD Cache RAID | 0, 1, 5, 6, 10 |
| SSD profiling tool | Tak |
| External Device Management | Tak |
| Mount Smart Phone (MTP) | Tak |
| External RAID Device (QNAP so on) Management (External Device Mode) | Tak |
| External RAID Device (QNAP so on) Management (NAS Mode) | Tak |
| 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 |

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| | 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) | Tak |
| Object Storage | Tak |
| Local user account | 4,096 |
| Local group account | 512 |
| Domain user/group account | 200,000 |
| Domain Security | Tak |
| Domain Controller | Tak |
| Shared folder permission | Tak |
| Advanced folder permission | Tak, (AFP, CIFS/SMB, FTP, and File Station) |
| Windows ACL | Tak, (CIFS/SMB) |
| User quota | Tak |
| Group quota | Tak |
| Folder quota | Tak, (Snapshot shared folder) |
| Home folder | Tak |
| Resource Monitor | Tak |
| 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 | Tak |
| Schedule on/off | Tak |
| Internet protocol | IPv4, IPv6 |
| Virtual Switch | Tak |
| Port trunking | Tak, (7 modes) |
| VLAN | Tak |
| DHCP Server | Tak |
| DDNS (Dynamic Domain Name Service) | Tak |
| Network access protection with auto-blocking | SSH, Telnet, HTTP(S), FTP, CIFS/SMB, and AFP |
| Security Counselor | Tak |
| Malware Remover | Tak |
| AES 256-bit Volume Encryption validated by FIPS 140-2 CAVP | Tak |
| 2-step verification | Tak |
| Allow/Deny List | Tak |
| Access Protection | Tak |
| Service binding | Tak |
| Firewall | Tak |
| vSphere Web Client Plug-in | Tak |
| VMware vSphere VAAI for iSCSI | Tak |
| VMware vSphere VAAI for NAS | Tak |
| Windows ODX | Tak |
| Windows/VMware Snapshot Agent | Tak |
| HTTP/HTTPS Connections | TLS 1.0/1.1/1.2/1.3 |
| Supports WebDAV Connection | Tak |
| Supports Virtual Hosts | 32 |
| Qsync | Tak<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 | Tak<br><br>Note: At least 1 GB RAM is required. |
| [HybridMount] File Cloud Gateway | Concurrent Connections = 20 Upload & 20 Download |
| [HybridMount] Network Drive Mount | Tak |
| [HybridMount] Free cloud gateway sessions | 2 |
| HBS (Hybrid Backup Sync) | Tak<br><br>Note: At least 1 GB RAM is required. |
| [HBS (Hybrid Backup Sync)] NAS to NAS backup | Tak |

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| [HBS (Hybrid Backup Sync)] Cloud Backup | Tak |
| [HBS (Hybrid Backup Sync)] Cloud Sync | Tak |
| [HBS (Hybrid Backup Sync)] 2-way and Active Sync | Tak |
| [HBS (Hybrid Backup Sync)] Backup Deduplication | Tak |
| [HBS (Hybrid Backup Sync)] Apple Time Machine Backup | Tak |
| [HBS (Hybrid Backup Sync)] External drive backup | Tak |
| [HBS (Hybrid Backup Sync)] Maximum number of backup job | 400 |
| Hyper Data Protector | Tak |
| Boxafe | Tak |
| | Note: At least 4 GB RAM is required. |
| [Boxafe] Office 365 Backup | Tak |
| [Boxafe] Google Workspace Backup | Tak |
| [Boxafe] Full-text search | Tak |
| Qsirch | Tak |
| | 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 | Tak |
| [Qsirch] Advanced picture search | Tak |
| [Qsirch] Search filters | Tak |
| QuMagie | Tak |
| | Note: At least 1 GB RAM is required. |
| [QuMagie] Browse photos | Tak |
| [QuMagie] Virtual and smart albums | Tak |
| [QuMagie] AI-assisted photo management | People, things, places, and others |
| Antivirus (free) | Tak |
| McAfee (License) | Tak |
| QVPN Service | Tak |
| | 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 |
| LDAP Server | Tak |
| RADIUS | Tak |
| SQL server | Tak |
| License Center | Tak |
| Multimedia Console | Tak |
| Photo Station | Tak |
| Music Station | Tak |
| Video Station | Tak |
| Download Station | Tak |
| Notes Station | Tak |
| Qfiling | Tak |
| Media Streaming add-on | Tak |
| QmailAgent | Tak |
| QuWAN | Tak |
| DA Driver Analyzer | Tak |
| Q'center | Tak |
| | Note: The application is available in the App Center and in virtual appliance marketplaces (VMware vSphere ESXi and Microsoft Hyper-V). |
| Q'center Server | Tak |
| Q'center Agent | Tak |
| Connect to Q'center | Tak |
| Virtualization Station | Tak |
| | Note: At least 4 GB RAM is required. |

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| [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 | 12<br><br>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 | Tak<br><br>Note: At least 1 GB RAM is required. |
| [Container Station] Supported type | LXC/LXD and Docker<br><br>Note: LXD has been supported after Container Station 2.4 |
| [Container Station] Docker Hub Registry | Tak |
| [Container Station] Container importing and exporting | Tak |
| [Container Station] Console mode | Tak |
| Linux Station | Tak<br><br>Notification: At least 4 GB RAM is required. |
| [Linux Station] Supports Ubuntu versions | 18.04, and 20.04 |
| Linux Station Center | Tak |
| QVR Pro | Tak<br><br>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 | Tak |
| [QVR Pro] Metadata | Tak |
| [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 | Tak<br><br>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 | Tak |
| [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 | Tak |
| [QVR Pro Client] Dynamic View Layout | Tak |
| [QVR Pro Client] Windows | Tak |
| [QVR Pro Client] Mac | Tak |
| [QVR Pro Client] HybridDesktop | Tak |
| [QVR Pro Client] iOS | Tak |
| [QVR Pro Client] Android | Tak |
| QVR Center | Tak<br><br>Note: At least 4 GB RAM is required. |
| [QVR Center] Log management | Tak |
| [QVR Center] Central monitoring across multiple servers | Tak |
| QVR Guard | Tak |

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| | Note: At least 4 GB RAM is required. |
| [QVR Guard] Failover design | Tak |
| [QVR Guard] Viewing task details | Tak |
| [QVR Guard] Automatic switch between Standby and Takeover modes | Tak |
| QVR Human | Tak |
| QVR Face | Tak |
| | 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 | Tak |
| 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 |
| 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 | Tak |
| SED Storage Pool | Tak |
| 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 | Tak |
| VJBOD / VJBOD Cloud | Tak |
| iSCSI Service | Tak |
| Fibre Channel Service | Tak |
| LUN Type | Thick, Thin |
| Block-based iSCSI LUN | Tak |
| 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) | Tak |
| Storage Pool Expansion (by adding RAID Group) | Tak |
| RAID Hot Spare | Global, Local |

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|---|---|
| RAID Sync/Rebuild/Scrubbing | Tak |
| End-to-End data integrity | Tak |
| Silent error detection and self-healing | Tak |
| Internal drive | ZFS |
| External drive | EXT3, EXT4, NTFS, FAT32, HFS+, and exFAT |
| Disk, Enclosure Locate | Tak |
| Disk S.M.A.R.T. Scan | Tak |
| Disk S.M.A.R.T. Data Migration | Tak |
| Ironwolf Health Management | Tak |
| Secure Erase | Tak |
| SSD Trim | Tak |
| SSD Life Estimation | Tak |
| Disk Roaming | Tak |
| Disk Standby | Tak |
| Shared Folder Snapshot | Tak |
| LUN Snapshot | Tak |
| 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 | Tak |
| Self-serve Snapshot Recovery | Tak |
| Application Consisted Snapshot | Tak |
| Snapshot Full Clone | Tak |
| Snapshot Instant Clone | Tak |
| Snapshot Replica / Vault | Tak |
| SSD read-only Cache | Tak |
| SSD read & write log cache | Tak |
| SSD dedicated ZIL cache | Tak |
| SSD Cache Maximum Size | Check your QNAP NAS cache capacity and RAM requirements |
| SSD Cache RAID | 0, 1, 10 (journal) |
| External Device Management | Tak |
| Mount Smart Phone (MTP) | Tak |
| External RAID Device (QNAP so on) Management (External Device Mode) | Tak |
| External RAID Device (QNAP so on) Management (NAS Mode) | Tak |
| 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 | Tak |
| Shared Folder Data Deduplication | Tak |
| Shared Folder WORM | Tak |
| File Station (Web) | Tak |
| Object Storage | Tak |
| Local user account | 16,000 |
| Local group account | 512 |
| Domain user/group account | 200,000 |
| Domain Security | Tak |
| Domain Controller | Tak |
| Shared folder permission | Tak |
| Windows ACL | Tak |
| User quota | Tak |
| Group quota | Tak |
| Folder quota | Tak |
| Home folder | Tak |
| Resource Monitor | Tak |
| 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 | Tak |
| Schedule on/off | Tak |
| Internet protocol | IPv4, IPv6 |

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| Virtual Switch | Tak |
| Port trunking | Tak, (7 modes) |
| VLAN | Tak |
| DHCP Server | Tak |
| DDNS (Dynamic Domain Name Service) | Tak |
| Network access protection with auto-blocking | SSH, Telnet, HTTP(S), FTP, CIFS/SMB, and AFP |
| Security Counselor | Tak |
| Malware Remover | Tak |
| AES 256-bit Folder Encryption validated by FIPS 140-2 CAVP | Tak |
| 2-step verification | Tak |
| Allow/Deny List | Tak |
| Access Protection | Tak |
| Service binding | Tak |
| Firewall | Tak |
| vSphere Web Client Plug-in | Tak |
| VMware vSphere VAAI for iSCSI | Tak |
| VMware vSphere VAAI for NAS | Tak |
| Windows ODX | Tak |
| Windows/VMware Snapshot Agent | Tak |
| HTTP/HTTPS Connections | TLS 1.0/1.1/1.2/1.3 |
| Supports WebDAV Connection | Tak |
| Supports Virtual Hosts | 32 |
| Qsync | Tak |
| | 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 | Tak |
| | Note: At least 1 GB RAM is required. |
| [HybridMount] File Cloud Gateway | Concurrent Connections = 80 Upload & 80 Download |
| [HybridMount] Network Drive Mount | Tak |
| [HybridMount] Free cloud gateway sessions | 2 |
| HBS (Hybrid Backup Sync) | Tak |
| | Note: At least 1 GB RAM is required. |
| [HBS (Hybrid Backup Sync)] NAS to NAS backup | Tak |
| [HBS (Hybrid Backup Sync)] Cloud Backup | Tak |
| [HBS (Hybrid Backup Sync)] Cloud Sync | Tak |
| [HBS (Hybrid Backup Sync)] 2-way and Active Sync | Tak |
| [HBS (Hybrid Backup Sync)] Backup Deduplication | Tak |
| [HBS (Hybrid Backup Sync)] Apple Time Machine Backup | Tak |
| [HBS (Hybrid Backup Sync)] External drive backup | Tak |
| [HBS (Hybrid Backup Sync)] Maximum number of backup job | 400 |
| Hyper Data Protector | Tak |
| Boxafe | Tak |
| | Note: At least 4 GB RAM is required. |
| [Boxafe] Office 365 Backup | Tak |
| [Boxafe] Google Workspace Backup | Tak |
| [Boxafe] Full-text search | Tak |
| Qsirch | Tak |
| | 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 | Tak |
| [Qsirch] Advanced picture search | Tak |
| [Qsirch] Search filters | Tak |

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| QuMagie | Tak |
| | Note: At least 1 GB RAM is required. |
| [QuMagie] Browse photos | Tak |
| [QuMagie] Virtual and smart albums | Tak |
| [QuMagie] AI-assisted photo management | People, things, places, and others |
| Antivirus (free) | Tak |
| McAfee (License) | Tak |
| QVPN Service | Tak |
| | 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 |
| LDAP Server | Tak |
| RADIUS | Tak |
| SQL server | Tak |
| License Center | Tak |
| Multimedia Console | Tak |
| Photo Station | Tak |
| Music Station | Tak |
| Video Station | Tak |
| Download Station | Tak |
| Notes Station | Tak |
| Qfiling | Tak |
| Media Streaming add-on | Tak |
| QmailAgent | Tak |
| QuWAN | Tak |
| DA Driver Analyzer | Tak |
| Q'center | Tak |
| | Note: The application is available in the App Center and in virtual appliance marketplaces (VMware vSphere ESXi and Microsoft Hyper-V). |
| Q'center Server | Tak |
| Q'center Agent | Tak |
| Connect to Q'center | Tak |
| Virtualization Station | Tak |
| | 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 | 12 |
| | 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 | Tak |
| | 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 | Tak |
| [Container Station] Container importing and exporting | Tak |
| [Container Station] Console mode | Tak |
| Linux Station | Tak |
| | Notification: At least 4 GB RAM is required. |
| [Linux Station] Supports Ubuntu versions | 16.04, 18.04, and 20.04 |
| Linux Station Center | Tak |
| QVR Elite | Tak |

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| | 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 | Tak |
| [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 | Tak |
| | Note: At least 4 GB RAM is required. |
| [QVR Center] Log management | Tak |
| [QVR Center] Central monitoring across multiple servers | Tak |

## Zawartość opakowania

- TS-h765eU
- Kabel Ethernet x 1
- Przewód zasilający
- Śruba z łbem płaskim (do dysku twardego 3,5 cala) x16
- Śruba z łbem płaskim (do dysku twardego 2,5 cala) x12
- Skrócona instrukcja instalacji (QIG)
- Wieszak x 2
- Uchwyt x 2