

QNAP TS-h1277AXU-RP-R5-16G



Cena	24 735,92 zł
Dostępność	Dostępny
Numer katalogowy	QNA_TSH1277AXURPR516G
Kod producenta	TS-h1277AXU-RP-R5-16G
Kod EAN	4711103084663
Producent	QNAP
Port 10 GbE	2
Pamięć RAM	16GB
Porty 1GbE RJ-45	2

Opis produktu



QNAP TS-h1277AXU-RP-R5-16G

QNAP TS-h1277AXU-RP-R5-16G zasilany przez procesor AMD Ryzen™ serii 7000 oparty na najnowocześniejszej platformie AM5 z gniazdem AMD, pamięć masowa TS-h1277AXU-RP oparta na systemie plików ZFS i rozwiązanie **do tworzenia kopii zapasowych** zapewniają doskonałą wydajność i potencjał na poziomie korporacyjnym. Dzięki rewolucyjnemu, wielordzeniowemu procesorowi, pamięci RAM DDR5, M.2 PCIe Gen 5 i redundantnym zasilaczom, urządzenie TS-h1277AXU-RP **zapewnia doskonałą wydajność**, bardzo dużą przepustowość i niezawodność dla wymagających wydajności pamięci masowych na poziomie 2, wirtualizacji, edycji wideo 4K i aplikacji pamięci masowej na poziomie PB.

Cechy wyjątkowe dysku sieciowego **QNAP TS-h1277AXU-RP-R5-16G**:

- Wydajny dwunasto- dyskowy **serwer plików** obsługujący dyski 2,5", 3,5" SATA, SSD
- Obsługa dwunastu dysków i trybu **RAID** Single Disk, JBOD, RAID 0, 1, 5, 6, 10, 5 + hot spare, zabezpieczającą przed utratą danych
- Wbudowany szybki interfejs sieciowy - **Dwa porty 2,5GbE i dwa porty 10GbE przyspieszają wirtualizację, działanie centr pamięci masowej**
- Panel użytkownika i oprogramowanie dostępne w języku polskim
- Model **TS-h1277AXU-RP-R5** posiada **redundantne zasilanie**
- Obsługa aplikacji **Virtualization Station** do tworzenia maszyn wirtualnych
- **TS-h1277AXU-RP-R5** obsługuje oprogramowanie **VMware® i Citrix®** oraz jest kompatybilny z Microsoft® Hyper-V™ i Windows Server 2016
- Ośmiordzeniowy procesor ze sprzętowym mechanizmem **szyfrowania AES 256bit**
- Port wewnętrznej **pamięci podręcznej** przyspieszający operacje we/wy
- Obsługa **RTRR (ang. Real-Time Remote Replication)** umożliwiającą wykonywanie kopii zapasowych zarówno w czasie rzeczywistym jak i według harmonogramu
- Wbudowany **serwer FTP** z funkcjami SSL, TLS
- Wbudowany serwer **VPN** oraz **MySQL**
- Możliwość działania **jako rejestrator** do zbudowania wydajnego systemu **monitoringu** z kamerami IP
- TS-h1277AXU-RP będzie dostępny i obsługiwany przez QNAP przez długi czas do roku 2030.

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.



Rozszerzenie funkcjonalności TS-h1277AXU-RP-R5 dzięki wirtualizacji.

Aplikacja **Virtualization Station** przekształca model **TS-h1277AXU-RP-R5** w NAS typu dwa-w-jednym, mogący działać jako NAS typu wszystko-w-jednym oraz jako platforma wirtualizacji obsługująca różne **systemy operacyjne** i umożliwiającą szybkie tworzenie, importowanie i eksportowanie maszyn wirtualnych, tworzenie migawek i wykonywanie operacji na pulpicie w przeglądarce internetowej.

Ultrawysoka szybkość transferu M.2 PCIe Gen



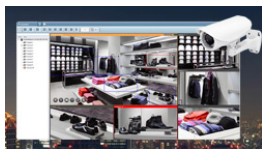
Model TS-h1277AXU-RP jest wyposażony w dwa gniazda M.2 2280 PCIe Gen 5, które pozwalają zainstalować dyski SSD NVMe (w tym WD®, Micron®, Seagate®, Kingston®), aby zwiększyć wydajność serwera NAS. PCIe Gen 5 jest wstecznie kompatybilny z PCIe Gen 4 / PCIe Gen 3, umożliwiając elastyczne wdrażanie dysku SSD.

Innowacyjny system QTS hero.



Model TS-h1277AXU-RP obsługuje także QTS — standardowy system operacyjny NAS firmy QNAP — który zapewnia wysoką wydajność na co dzień, efektywne wykorzystanie pamięci i zalety automatycznego poziomowania Qtier. Możesz także migrować dyski z aktualnego NAS, działającego w oparciu o QTS, na TS-h1277AXU-RP.

Monitoring wideo.



W modelu TS-h1277AXU-RP-R5 dostępny jest system **Surveillance Station** – profesjonalne rozwiązanie do monitoringu z przyjaznym dla użytkownika interfejsem. System oferuje szeroki wybór ponad **2600 kompatybilnych modeli kamer IP** 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 wyłączenia**, co zapewnia większą elastyczność użytkownika.



Dowiedz się więcej na temat systemu QNAP QTShero:

Produkt posiada dodatkowe opcje:

Gwarancja QNAP NBD: Brak NBD , NBD 1 rok (+ 1 919,62 zł), NBD 2 lata (+ 3 839,19 zł), NBD 3 lata (+ 5 758,80 zł), NBD 4 lata (+ 7 678,42 zł), NBD 5 lat (+ 9 598,03 zł)

Gwarancja QNAP NBD Onsite: Brak NBD Onsite , NBD Onsite 1 rok (+ 2 995,32 zł), NBD Onsite 2 lata (+ 5 990,60 zł), NBD Onsite 3 lata (+ 8 985,93 zł), NBD Onsite 4 lata (+ 11 981,25 zł), NBD Onsite 5 lat (+ 14 976,58 zł)

Specyfikacja sprzętowa

Procesor	AMD Ryzen™ 5 7000 series 6-core/12-thread processor, burst up to 5.1 GHz
	AMD Radeon Graphics
Architektura procesora	64-bitowy x86
Koprocesor arytmetyczny FPU	Tak
Mechanizm szyfrowania	Tak (AES-NI)
Transkodowanie wspomagane sprzętowo	Tak
Pamięć systemowa	16 GB UDIMM DDR5 (1x 16 GB)
Maksymalna pojemność pamięci	128 GB (4 x 32 GB)
Gniazdo pamięci	4 x UDIMM DDR5
	Support optional ECC memory
Pamięć flash	5GB (ochrona systemu operacyjnego przed podwójnym roz
Wnękę dysków	12 dyski 3,5-calowe SATA 6 Gb/s, 3 Gb/s
Kompatybilność dysków	3.5-inch SATA hard disk drives
	2.5-inch SATA solid state drives
Wymieniany podczas pracy	Tak
Gniazdo M.2	2 x M.2 2280 PCIe Gen 5 x2 slots
	Kompatybilne z dyskami NVMe SSD PCIe Gen 3 & Gen 4. Z
	listę https://www.qnap.com/compatibility/ kompatybilności.
Obsługa przyspieszenia pamięci podręcznej	Tak
SSD	
GPU pass-through	Tak
Port 2,5 Gigabit Ethernet (2,5G/1G/100M)	2 (2,5G/1G/100M/10M)
Port 10 Gigabit sieci Ethernet	2 x 10GBASE-T (10G/5G/2,5G/1G/100M)
Wake on LAN (WOL)	Tak
Ramka Jumbo	Tak
Gniazdo PCIe	3
	Slot 1: Gen 4 x 4
	Slot 2: Gen 4 x 8 or Gen 4 x 4*
	Slot 3: Gen 4 x 4
	*Slot 2 provides the width of PCIe Gen4 x8 when Slot 1 is n
	Gen4 x4 when Slot 1 is in use.
Port USB 3.2 Gen 2 (10 Gb/s)	2 x Type-A USB 3.2 Gen 2 10Gbps
Kształt	2U, do montażu stelażowego
Wskaźniki LED	Power Status, HDD 1-12, M.2 SSD 1-2, Status, LAN, storage
Przyciski	Zasilanie, reset
Wymiary (wys. x szer. x gł.)	88,6 x 432 x 511,2 mm
	Nie uwzględnia ucha ani wystającej części jednostki zasilan
Waga (netto)	13 kg
Waga (brutto)	19 kg
Temperatura robocza	0-40°C
Temperatura przechowywania	-20-70°C
Wilgotność względna	5-95% bez kondensacji, temperatura mokrego termometru
Zasilacz	550W(x2), 100-240V
Wentylator	Wentylator systemu: 3 x 60mm, 12VDC
Ostrzeżenie systemowe	Brzęczyk
Standardowa gwarancja	5
Maks. liczba połączeń współbieżnych (CIFS)	5000
— z maks. pojemnością pamięci	

Specyfikacja oprogramowania

Operating System	QTS 5.1.3
Supported Client Operating Systems	1. Apple Mac OS 10.10 or later 2. Ubuntu 14.04, CentOS 7, RHEL 6.6, SUSE 12 or later Linux 3. IBM AIX 7, Solaris 10 or later UNIX 4. Microsoft Windows 7, 8, 10 and 11 5. Microsoft Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019 and 2022
Supported Browsers	1. Apple Safari (latest version) 2. Google Chrome (latest version) 3. Microsoft Edge (latest version) 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
Maximum number of volume	Note: At least 4 GB RAM is required. 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
Maximum number of targets LUN	Note: At least 4 GB RAM is required. 128
LUN feature	1. LUN Mapping (LUN can be moved between iSCSI and FC) 2. LUN Masking 3. WWPN Aliases Import/Export 4. FC Port Group
Auto Tiering	Tak
RAID Type	Requires minimum 2GB memory. 1. 8-bay (and more): JBOD, Single, RAID 0, 1, 5, 6, 10, 50, 60 2. 6-bay: JBOD, Single, RAID 0, 1, 5, 6, 10, 50 3. 4-bay: JBOD, Single, RAID 0, 1, 5, 6, 10 4. 2-bay: JBOD, Single, RAID 0, 1
RAID Group	Tak
RAID Level Migration	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 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)
	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)	Tak
Management (External Device Mode)	
External RAID Device (QNAP so on)	Tak
Management (NAS Mode)	
File Server	1. File sharing across Windows, Mac, and Linux/UNIX 2. Microsoft networking (CIFS/SMB) 3. Apple networking (AFP) 4. NFS version 3/4 services
FTP Server	1. QuFTP 2. FTP, SFTP and TFTP protocols 3. FTP over SSL/TLS (explicit FTPS) 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

	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
	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 = 20 Upload & 20 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

[Qsirch] Previews	at least 2 GB of memory
[Qsirch] Integrate Mac Finder	Photos, music, videos, PDFs, Gmail, and others
[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] Supported 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	Not support GPU
[Virtualization Station] Suggested number of virtual machine instances	16
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
[Linux Station] Supports Ubuntu versions	Notification: At least 4 GB RAM is required. 18.04, and 20.04
Linux Station Center	Tak
QVR Pro	Tak
[QVR Pro] Recording Technique	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] License Type	Index database based
[QVR Pro] User-defined trigger events	Perpetual
[QVR Pro] Metadata	Tak
[QVR Pro] QVR Pro Client (Desktop)	Tak
[QVR Pro] QVR Pro Client (Mobile)	Windows, macOS, and QNAP HybridDesk Station
[QVR Pro] Recording camera streams	Android and iOS
[QVR Pro] Free built-in camera channels	H.264
QVR Elite	8
	Tak
	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
[QVR Center] Log management	Note: At least 4 GB RAM is required.
[QVR Center] Central monitoring across multiple servers	Tak
QVR Guard	Tak
	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 h5.1.3
Supported Client Operating Systems	1. Apple Mac OS 10.10 or later 2. Ubuntu 14.04, CentOS 7, RHEL 6.6, SUSE 12 or later Linux 3. IBM AIX 7, Solaris 10 or later UNIX 4. Microsoft Windows 7, 8, 10, and 11 5. Microsoft Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019, and 2022
Supported Browsers	1. Apple Safari (latest version)

	2. Google Chrome (latest version)
	3. Microsoft Edge (latest version)
	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	5 PB
Maximum number of storage pool	128
Shared Folder Type	Thick, Thin
Maximum shared folder size	5 PB
Maximum number of shared folder	128
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	128
RAID Type	8-bay (and more): Single, RAID 0 (Stripe), 1, 5, 6, 10, 50, 60, Triple Mirror, Triple Parity 6-bay: Single, RAID 0 (Stripe), 1, 5, 6, 10, 50, Triple Mirror, Triple Parity 4-bay: Single, RAID 0 (Stripe), 1, 5, 6, 10, Triple Mirror, Triple Parity 3-bay: Single, RAID 0 (Stripe), 1, 5, Triple Mirror, Triple Parity
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 Expansion (by replacing bigger Disks)	Tak
Storage Pool Expansion (by adding RAID Group)	Tak
RAID Hot Spare	Global, Local
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)	Tak
Management (External Device Mode)	
External RAID Device (QNAP so on)	Tak
Management (NAS Mode)	
File Server	1. File sharing across Windows, Mac, and Linux/UNIX 2. Microsoft networking (CIFS/SMB) 3. Apple networking (AFP) 4. NFS version 3/4 services
FTP Server	1. FTP, SFTP and TFTP protocols 2. FTP over SSL/TLS (explicit FTPS) 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 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 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
[Qsync] Management Mode	Note: At least 1 GB RAM is required.
[Qsync] Qsync client supported platforms	User customization, Central
[Qsync] Maximum number of version control	Windows, macOS, Ubuntu, Android, and iOS
HybridMount	64
	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
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] Supported 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. Windows, Linux, Unix, and Android
[Virtualization Station] Supports Virtual machine instances	
[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	16
	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
	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 Center	Tak
	Note: At least 4 GB RAM is required.
[QVR Center] Log management	Tak
[QVR Center] Central monitoring across multiple servers	Tak