TS-832PX



Brand: QNAP

Product Code: TS-832PX

Availability: 10 **Weight:** 7.05kg

Dimensions: 180.20mm x 329.30mm x

280.80mm

Call for Price:

Short Description

High-capacity NAS with 10GbE SFP+ and 2.5GbE, Supports PCIe Expansion for M.2 SSDs to Accelerate Applications

Description

The quad-core 1.7GHz TS-832PX features eight 3.5-inch SATA 6GB/s drive bays, providing huge storage potential for a wide range of applications and everyday usage. With two 10GbE SFP+ and two 2.5GbE LAN ports, the TS-832PX supports next-generation networks for empowering bandwidth-demanding applications and providing smoother file access and sharing. Various PCIe cards are also supported, including QM2 cards that provide M.2 SATA/NVMe SSD caching and QtierTM auto-tiering storage to boost NAS performance.



• 1

Two 10GbE SFP+ and two 2.5GbE RJ45 network ports empower bandwidth-demanding tasks and accelerate file sharing.

• 2

PCIe expansion allows for installing a QM2 card to add M.2 SSDs for caching, a 10/5GbE network card, or a wireless network expansion card.

• 3

Snapshots record your system status, allowing you to protect files and data from accidental deletion and malware attacks.

• 4

Cloud storage gateways realize hybrid cloud applications by working with the cache space reserved on NAS to ensure low-latency data access to the cloud.

• 5

QtierTM auto-tiering technology and SSD caching enable constant storage optimization.

• 6

Increase the storage capacity of the TS-832PX with QNAP TR RAID expansion enclosures or TL JBOD.

Energy-efficient Quad-core Processor

Powered by 64-bit quad-core 1.7GHz ARM Cortex-A57 processor and 4 GB DDR4 RAM (expandable to 16 GB), the TS-832PX features is highly energy efficient without

impacting system or application performance.

Virtualization Certifications Supported by TS-832PX



Supports AES-128-GMAC for SMB signing acceleration

SMB signing (also known as security signatures) is a security mechanism in the SMB protocol. For business applications that demand high-level security, SMB signing helps enhance file sharing security by protecting against interception attacks. However, SMB signing can also negatively impact data transmission performance. QTS 5.1.0 supports AES-128-GMAC signing acceleration (only in Windows Server 2022 and Windows 11 clients) that not only greatly increases data signing efficiency over SMB 3.1.1 but also enhances the CPU utilization of the NAS system - providing the best balance of security and performance.

x86 64-bit NAS

2X Faster

AES-CMAC: 619 MB/s Read AES-128-GMAC: 1238 MB/s Read

ARM 64-bit NAS

10X Faster

AES-CMAC: 68 MB/s Read AES-128-GMAC: 738 MB/s Read

Test environment:

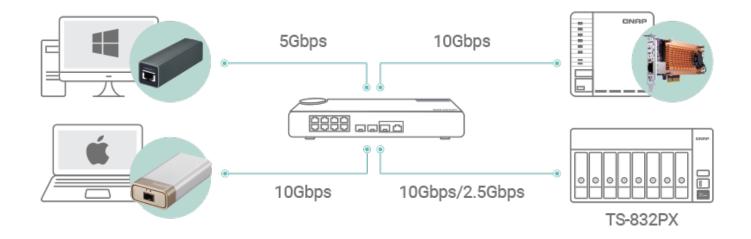
Crystal Disk Mark 1MB throughput

Client: Windows Server 2022 (AMD EPYC 7232P 3.0GHz, DDR4 128GB) with 10GbE NICs

x86 NAS: TS-h1887XU-RP-E2336-32G, QTS 5.1.0 (GMAC), QTS 5.0.1 (CMAC), Samsung 870 EVO 1TB, RAID 50, onboard Aquantia X550 10GbE NIC ARM NAS: TS-1232PXU-RP-4G, QTS 5.1.0 (GMAC), QTS 5.0.1 (CMAC), Samsung 860PRO 512GB, RAID 5, onboard Annapurna SFP+ 10GbE NIC

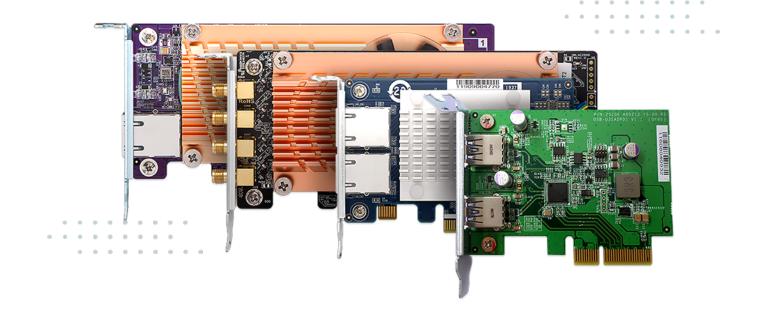
High-speed 10GbE and 2.5GbE connectivity

The TS-832PX includes two 10GbE SFP+ and two 2.5GbE LAN RJ45 ports, providing out-of-the-box support for high-speed networking and supporting Port Trunking and Failover to reinforce your network infrastructure. QNAP also provide many other high-speed networking solutions, including 10GbE/2.5GbE managed/unmanaged switches and network adapters, allowing you to build a budget-friendly high-speed network environment.



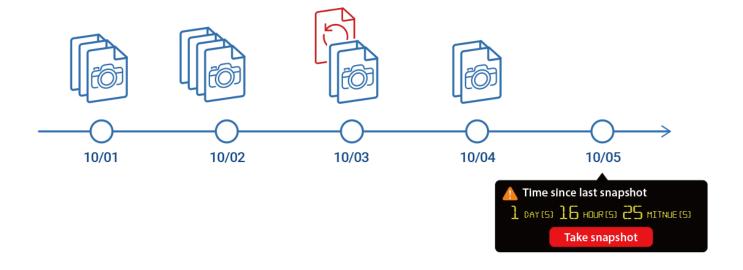
Extend NAS Functionality with a PCIe Card

With a PCIe Gen 2.0 slot, the TS-832PX provides flexibility in extending NAS functionality and potential applications. To optimize system performance, install a QNAP QM2 card for M.2 SATA/NVMe SSD caching/10GbE connectivity and use with Qtier for optimal system performance. You can also use a QNAP Wi-Fi 6 (802.11AX) network card to create a wireless environment. Additional options include QXG 5GbE/2.5GbE network adapter cards and USB 3.2 Gen 2 (10Gbps) cards. All these options ensure that the TS-832PX can be upgraded to fit future requirements.



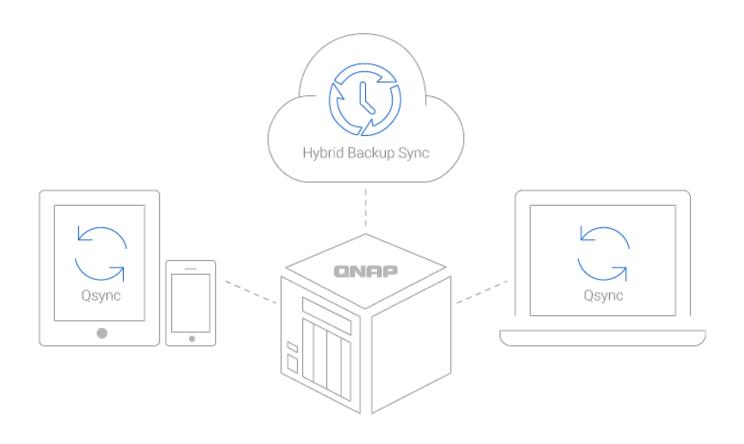
Protect Important Data with Snapshots

Snapshots fully record the NAS system state and metadata and can be used to quickly restore files to previously-recorded states if they are accidentally deleted/modified or if the system is compromised by ransomware. QNAP snapshots are block-based and only record modified data. Not only does this save storage space, but also reduces the time required to back up and restore data. The TS-832PX supports up to 256 snapshots per NAS and up to 64 snapshots per volume or LUN.



Multi-Point File Backup, Access, and Sync

The TS-832PX supports common file sharing protocols (including SMB/CIFS, AFP and NFS) for Windows®, Mac®, and Linux®/UNIX® devices. Coupled with Qsync (a utility that transforms a QNAP NAS into a secure, high-capacity data center for file synchronization) any file uploaded to the TS-832PX becomes available for all linked devices (such as computers, laptops, and mobile devices). Hybrid Backup Sync helps you easily backup or synchronize data on the TS-832PX to another QNAP NAS, remote server, or cloud storage (including Microsoft One Drive®, Google Drive™, and Dropbox®) for disaster recovery.



Smart AI Photo Management

QuMagie integrates QuMagie Core AI image recognition technology for facial recognition, subject identification, and geotagging photos. Similar photos are categorized into People, Places, and Things albums. QuMagie also features a built-in timeline scroll, customizable folder covers, iOS® Live Photo display and a powerful search tool, to provide you with the ultimate photo management and image sharing solution.



Low-latency Access to Cloud Data with Cloud Storage Gateways

By deploying cloud storage gateways and enabling local caching on the TS-832PX, you can seamlessly use the cloud for storage, backup, and data recovery with low-latency access, providing an innovative hybrid cloud experience.



HybridMount File-Based Cloud Gateway

Flexibly expand your storage capacity by connecting to cloud storage. You can leverage QTS apps to manage and edit your cloud files or monitor multimedia files. HybridMount is ideal for file server online collaboration and file-level data analysis.



VJBOD Cloud Block-Based Cloud Gateway

VJBOD Cloud supports backing up NAS data to block-based cloud storage. Block-based data transmission uploads random data and large files to the cloud in blocks, and only block-based volume or LUN changes are transmitted. This is ideal for backing up LUN, databases, and confidential files.

Easily find and automatically organize files

The TS-832PX provides greater convenience for managing files. You can quickly find files using Qsirch and auto-archive them with Qfiling.



File search

Qsirch quickly finds images, music, videos, documents, emails, and other files by using keywords, colors and different filters.



Auto archiving

Qfiling automates file organization or recycling based on self-configured rules, greatly improving work efficiency.

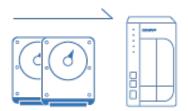
Secure remote access to your QNAP NAS

Use myQNAPcloud Link to access, share, download, and manage files stored on an HQ-based NAS via the Internet. QNAP NAS also supports VPN services for remote workers to access the NAS and resources on a private network from the Internet. You can also use QVPN Device Client powered by QNAP's proprietary QBelt protocol to easily connect to your TS-832PX and use measurement tools to know the speed of your VPN connections and connection history.



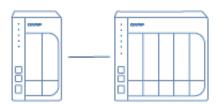
Flexible and economical storage expansion

QNAP provides several ways to expand the storage capacity of the TS-832PX to accommodate data growth:



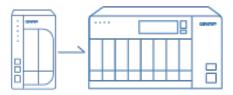
Upgrade RAID Capacity

Hot-swap lower-capacity drives with larger-capacity drives to expand the TS-832PX.



Attach Expansion Enclosures

Connect two expansion enclosures (4-bay TR-004, 2-bay TR-002) or one 8-bay TL-D800C, 4-bay TL-D400S, 8-bay TL-D800S JBOD and use the Storage & Snapshots Manager to handle NAS capacity expansion.



Migrate to a New NAS

Install your NAS hard drives into a larger QNAP NAS and retain all your existing data and configurations.

Multiply Your Productivity



QVR Pro

Build a secure surveillance environment without any extra software needed. Provides free embedded channels and you can also purchase QVR Pro licenses to deploy a large-scale surveillance network.



Notification Center

Consolidates all QTS system events, alerts, and notifications for easy NAS management, keeping you always informed of your NAS status.



Security Counselor

A security portal for checking weaknesses and providing recommendations for enhancing NAS security. It also integrates anti-virus and anti-malware scanning software.

QTS 5.2.3
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
1. Apple Safari (latest version)
2. Google Chrome (latest version)
3. Microsoft Edge (latest version)
4. Mozilla Firefox (latest version)
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
??
??
308 TB
128
Thick, Thin, Static
250 TB
Note: At least 4 GB RAM is required.
128
250 TB
512
??
??
??
??

LUN Type

File-based iSCSI LUN

Maximum LUN size

Block-based iSCSI LUN

Note: At least 4 GB RAM is required.

Thick, Thin

??

??

250 TB

Maximum number of targets LUN LUN feature	 LUN Mapping (LUN can be moved between iSCSI and FC) LUN Masking WWPN Aliases Import/Export FC Port Group FC Port Binding Multipath IO (MPIO) Online LUN capacity expansion LUN snapshot LUN snapshot replication and clone
Auto Tiering	??
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	??
	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.
PAID Lavel Migration	e affected.
RAID Level Migration RAID Expansion (by adding Disk)	??
RAID Expansion (by replacing bigger Disks)	??
Storage Pool Expansion (by adding RAID Group)	??

RAID Hot Spare RAID Sync/Rebuild/Scrubbing Internal drive External drive	Global, Local ?? EXT4 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	??
Disk S.M.A.R.T. Scan	??
Disk S.M.A.R.T. Data Migration	??
Ironwolf Health Management	??
Secure Erase	??
SSD Trim	??
SSD Life Estimation	??
Disk Roaming	??
Disk Standby	??
Volume Snapshot	??
LUN Snapshot	??
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	??
Self-serve Snapshot Recovery	??
Application Consisted Snapshot	??
Snapshot Full Clone	??
Snapshot Replica / Vault	??
SSD read-only Cache	??
SSD read-write cache	??
SSD write-only cache	??
SSD Cache Maximum Size	Check your QNAP NAS cache capacity and
	RAM requirements
SSD Cache RAID	0, 1, 5, 6, 10
SSD profiling tool	??
External Device Management	??
Mount Smart Phone (MTP)	??
External RAID Device (QNAP so on)	??
Management (External Device Mode)	
External RAID Device (QNAP so on)	??

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)	??
Object Storage	??
Local user account	4,096
Local group account	512
Domain user/group account	200,000
Domain Security	??
Domain Controller	??
Shared folder permission	??
Advanced folder permission	??, (AFP, CIFS/SMB, FTP, and File
	Station)
Windows ACL	??, (CIFS/SMB)
User quota	??
Group quota	??
Folder quota	??, (Snapshot shared folder)
Home folder	??
Resource Monitor	??
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	??
Schedule on/off	??
Internet protocol	IPv4, IPv6
Virtual Switch	??
Port trunking	?? , (7 modes)
VLAN	??
DHCP Server	??
DDNS (Dynamic Domain Name Service)	??
Network access protection with auto-	SSH, Telnet, HTTP(S), FTP, CIFS/SMB,

Security Counselor Malware Remover AES 256-bit Volume Encryption validated by FIPS 140-2 CAVP 2-step verification ?? Allow/Deny List ?? Access Protection ?? Service binding ?? Firewall ?? Windows Server certificated ?? Windows Server certificated ?? Windows Verber VAAI for iSCSI ?? VMware vSphere VAAI for NAS ?? Windows/DN ?? Windows/VMware Snapshot Agent ?? HTTP/HTTPS Connections TLS 1.0/1.1/1.2/1.3 Supports WebDAV Connection ?? Supports WebDAV Connection ?? Supports Virtual Hosts ?? Qsync ?? Note: At least 1 GB RAM is required. [Qsync] Management Mode User customization, Central [Qsync] Maximum number of version 64 Control
AES 256-bit Volume Encryption validated by FIPS 140-2 CAVP 2-step verification ?? Allow/Deny List ?? Access Protection ?? Service binding ?? Firewall ?? Windows Server certifcated ?? Windows Server certifcated ?? VSphere Web Client Plug-in ?? VMware vSphere VAAI for iSCSI ?? VMware vSphere VAAI for NAS ?? Windows ODX ?? Windows/VMware Snapshot Agent ?? HTTP/HTTPS Connections TLS 1.0/1.1/1.2/1.3 Supports WebDAV Connection ?? Supports Virtual Hosts 32 Qsync ?? Note: At least 1 GB RAM is required. User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
by FIPS 140-2 CAVP 2-step verification
2-step verification ?? Allow/Deny List ?? Access Protection ?? Service binding ?? Firewall ?? Windows Server certificated ?? vSphere Web Client Plug-in ?? VMware vSphere VAAI for iSCSI ?? VMware vSphere VAAI for NAS ?? Windows ODX ?? Windows/VMware Snapshot Agent ?? HTTP/HTTPS Connections TLS 1.0/1.1/1.2/1.3 Supports WebDAV Connection ?? Supports Virtual Hosts 32 Qsync ?? Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
Allow/Deny List Access Protection Service binding Firewall Windows Server certificated vSphere Web Client Plug-in VMware vSphere VAAI for iSCSI VMware vSphere VAAI for NAS Windows ODX Vindows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version 12 22 23 24 27 27 28 29 30 31 32 32 32 32 32 32 33 43 44 45 46 46 46 46 47 48 48 48 48 48 48 48 48 48
Access Protection Service binding Firewall Windows Server certificated vSphere Web Client Plug-in VMware vSphere VAAI for iSCSI VMware vSphere VAAI for NAS Windows ODX Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version 12? Note: At least 1 GB RAM is required. Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 13. 14. 15. 16. 17. 17. 18. 18. 18. 18. 18. 18
Service binding Firewall Windows Server certificated vSphere Web Client Plug-in VMware vSphere VAAI for iSCSI VMware vSphere VAAI for NAS Windows ODX P? Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version P? Note: At least 1 GB RAM is required. Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
Firewall Windows Server certificated vSphere Web Client Plug-in VMware vSphere VAAI for iSCSI VMware vSphere VAAI for NAS Windows ODX P? Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version P? Note: At least 1 GB RAM is required. Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
Windows Server certificated vSphere Web Client Plug-in VMware vSphere VAAI for iSCSI VMware vSphere VAAI for NAS Windows ODX Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version ?? Note: At least 1 GB RAM is required. Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
vSphere Web Client Plug-in VMware vSphere VAAI for iSCSI VMware vSphere VAAI for NAS Windows ODX Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version ?? Note: At least 1 GB RAM is required. User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
VMware vSphere VAAI for iSCSI VMware vSphere VAAI for NAS Windows ODX Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version 12? Note: At least 1 GB RAM is required. User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
VMware vSphere VAAI for NAS Windows ODX Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version V? Note: At least 1 GB RAM is required. User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
Windows ODX Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
Windows ODX Windows/VMware Snapshot Agent HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. User customization, Central [Qsync] Qsync client supported platforms [Qsync] Maximum number of version P? Note: At least 1 GB RAM is required. User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
HTTP/HTTPS Connections Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version TLS 1.0/1.1/1.2/1.3 Provided Hosts Pro
Supports WebDAV Connection Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version Version Provided Hosts Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
Supports Virtual Hosts Qsync Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
Qsync ?? 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 64
Note: At least 1 GB RAM is required. [Qsync] Management Mode [Qsync] Qsync client supported platforms Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
[Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
[Qsync] Management Mode [Qsync] Qsync client supported platforms [Qsync] Maximum number of version User customization, Central Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
[Qsync] Qsync client supported platforms Windows, macOS, Ubuntu, Android, and iOS [Qsync] Maximum number of version 64
iOS [Qsync] Maximum number of version 64
[Qsync] Maximum number of version 64
- •
control
HybridMount ??
Note: At least 1 GB RAM is required.
[HybridMount] File Cloud Gateway Concurrent Connections = 20 Upload & 20
Download
[HybridMount] Network Drive Mount ??
[HybridMount] Free cloud gateway sessions 2
HBS (Hybrid Backup Sync) ??
Note: At least 1 GB RAM is required.
[HBS (Hybrid Backup Sync)] NAS to NAS ??
11
backup
[HBS (Hybrid Backup Sync)] Cloud Backup ??
•

Active Sync	
[HBS (Hybrid Backup Sync)] Apple Time	??
Machine Backup	0.0
[HBS (Hybrid Backup Sync)] External driv	e ??
backup	400
[HBS (Hybrid Backup Sync)] Maximum number of backup job	400
Boxafe	??
Bonare	• •
	Note: At least 4 GB RAM is required.
[Boxafe] Office 365 Backup	??
[Boxafe] Google Workspace Backup	??
[Boxafe] Full-text search	??
Qsirch	??
	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	??
[Qsirch] Advanced picture search	??
[Qsirch] Search filters	??
QuMagie	
	N. A.I. A.I. CD.DAM.
10 M 11D	Note: At least 1 GB RAM is required.
[QuMagie] Browse photos	??
[QuMagie] Virtual and smart albums	??
[QuMagie] AI-assisted photo management	People, things, places, and others
Antivirus (free)	People, things, places, and others ??
	People, things, places, and others
Antivirus (free)	People, things, places, and others ?? ??
Antivirus (free) QVPN Service	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required.
Antivirus (free)	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt
Antivirus (free) QVPN Service [QVPN Service] Remote Access	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary)
Antivirus (free) QVPN Service [QVPN Service] Remote Access [QVPN Service] Supportedd utility and	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt
Antivirus (free) QVPN Service [QVPN Service] Remote Access [QVPN Service] Supportedd utility and mobile app	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary) Windows, macOS, iOS, and Android
Antivirus (free) QVPN Service [QVPN Service] Remote Access [QVPN Service] Supportedd utility and	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary)
Antivirus (free) QVPN Service [QVPN Service] Remote Access [QVPN Service] Supportedd utility and mobile app [QVPN Service] Supported maximum clients	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary) Windows, macOS, iOS, and Android 100
Antivirus (free) QVPN Service [QVPN Service] Remote Access [QVPN Service] Supported utility and mobile app [QVPN Service] Supported maximum clients LDAP Server	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary) Windows, macOS, iOS, and Android 100 ??
Antivirus (free) QVPN Service [QVPN Service] Remote Access [QVPN Service] Supportedd utility and mobile app [QVPN Service] Supported maximum clients LDAP Server RADIUS	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary) Windows, macOS, iOS, and Android 100 ?? ??
Antivirus (free) QVPN Service [QVPN Service] Remote Access [QVPN Service] Supported utility and mobile app [QVPN Service] Supported maximum clients LDAP Server	People, things, places, and others ?? ?? Note: At least 1 GB RAM is required. PPTP, L2TP/IPSec, OpenVPN, QBelt (QNAP proprietary) Windows, macOS, iOS, and Android 100 ??

Multimedia Console	??
Photo Station	??
Music Station	??
Video Station	??
Download Station	??
Notes Station	??
Qfiling	??
Media Streaming add-on	??
QmailAgent	??
QuWAN	??
DA Driver Analyzer	??
Q'center	??
	Note: The application is available in the App
	Center and in virtual appliance marketplaces
	(VMware vSphere ESXi and Microsoft
	Hyper-V).
Q'center Server	??
Q'center Agent	??
Connect to Q'center	??
Container Station	??
	Note: At least 1 CD DAM is magnined
	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	??
[Container Station] Container importing and	
exporting	
[Container Station] Console mode	??
QVR Pro	??
	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

Perpetual

[QVR Pro] License Type

[QVR Pro] User-defined trigger events	??
[QVR Pro] Metadata	??
[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	??

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
[OVD Elita] Haan defined this con execute	9.9

[QVR Elite] User-defined trigger events

[QVR Elite] QVR Pro Client (Desktop) Windows, macOS, and QNAP HybridDesk

Station

[QVR Elite] QVR Pro Client (Mobile)	Android and iOS
[OVD Elita] December common streems	11.264

[QVR Elite] Recording camera streams H.264[QVR Elite] Free built-in camera channels 2 **QVR Pro Client** ?? [QVR Pro Client] Dynamic View Layout ?? [QVR Pro Client] Windows ??

[QVR Pro Client] Mac ?? [QVR Pro Client] HybridDesktop ?? [QVR Pro Client] iOS ??

[QVR Pro Client] Android

Specification

NAS	
10 Gigabit Ethernet Port	2 x 10GbE SFP+
2.5 Gigabit Ethernet Port	2 (2.5G/1G/100M/10M)
(2.5G/1G/100M)	
Buttons	Power, Reset, USB Copy
CPU Architecture	64-bit ARM
CPU Model	AnnapurnaLabs Alpine AL324 ARM® Cortex-
	A57 4-core 1.7GHz processor
Drive Bay	8 x 3.5-inch SATA 6Gb/s, 3Gb/s

Drive Compatibility	3.5-inch bays: 3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives
Encryption Engine	??
Fan	System fan: 2 x 120mm, 12VDC CPU fan: 1 x 60mm
Flash Memory	512 MB (Dual boot OS protection)
Floating Point Unit	??
Form Factor	Tower
Hot-swappable	?? (Not supported M.2 SSD)
Jumbo Frame	??
Kensington Security Slot	??
LED Indicators	System Status, LAN, USB, HDD1~8
M.2 Slot	Optional via a PCIe adapter
Max. Number of	700
Concurrent Connections	
(CIFS) - with Max.	
Memory	
Maximum Memory	16 GB (1 x 16 GB)
Memory Slot	1 x SODIMM DDR4
Operating Temperature	0 - 40 °C (32°F - 104°F)
PCIe Slot	1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth
	limitations will restrict the NAS 10GbE
	performance. Card dimensions for PCIe slot?210 x
	68.9x 24.76 mm / 8.27 x 2.71 x 0.97 inches.
Power Consumption: Disk Standby Mode	27.949
Power Consumption:	50.858 W Tested with drives fully populated.
Operating Mode, Typical	
Power Supply Unit /	250W, 100-240V AC, 50/60Hz, 3.5A
Adapter	
Relative Humidity	5-95% RH non-condensing, wet bulb: 27?C
	(80.6?F)
SSD Cache Acceleration	??
Support	
Storage Temperature	-20 - 70°C (-4°F - 158°F)
System Memory	4 GB SODIMM DDR4(1 x 4 GB)
System Warning	Voice prompts or Buzzer
USB 3.2 Gen 1 port	3
Wake on LAN (WOL)	?? Only the 2.5GbE port
` '	1

Product Gallery









