TS-1232PXU-RP

Brand: QNAP

Product Code: TS-1232PXU-RP

Availability: 10 Weight: 28.53lb

Dimensions: 3.49in x 17.01in x 20.12in

Call for Price:



Short Description

QNAP 12 Bay rackmount NAS TS-1232PXU-RP-4G

Description

With 10GbE SFP+ and 2.5GbE network ports, the TS-1232PXU-RP delivers high network bandwidth to streamline team collaboration and file access. A PCIe Gen 2 ×2 slot allows for installing a QNAP expansion card to add network connectivity, SSD caching capabilities, or wireless connectivity. The TS-1232PXU-RP supports file backup and synchronization, secure snapshot protection, and GoogleTM Workspace and Microsoft 365® enterprise account backup services, while providing instant recovery whenever needed. Coupled with the support for cloud gateways, building a new hybrid cloud storage solution has never been easier. The TS-1232PXU-RP also features a redundant power supply to ensure uninterrupted operation of mission-critical applications.

1

Two 10GbE SFP+ and two 2.5GbE RJ45 network ports accelerate file sharing.

HBS (Hybrid Backup Sync) backs up and syncs data to other NAS, servers and cloud storage for comprehensive disaster recovery planning.

3

Boxafe provides an extra layer of protection by backing up emails, cloud drives, contacts, and calendars of GoogleTM Workspace and Microsoft 365®.

4

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

5

Expand the application potential of the TS-1232PXU-RP by installing a compatible PCIe card.

6

Increase the storage capacity of the TS-1232PXU-RP with QNAP TR RAID expansion enclosures or TL JBOD.

Available Models

TS-1232PXU-RP-4G

TS-1232PXU-RP-4G

AnnapurnaLabs Alpine AL324 64-bit ARM® Cortex-A57 4-core 1.7GHz processor, 4 GB UDIMM DDR4 (1 x 4 GB), redundant power supply

Higher performance x faster throughput

The TS-1232PXU-RP is powered by an Annapurna Labs Alpine AL-324 ARM® Cortex®-A57 quad-core 1.7 GHz processor with 4GB DDR4 RAM (expandable to 16GB) and SATA 6Gb/s drives to deliver higher performance. With two 10GbE SFP+ and two 2.5GbE network ports, the TS-1232PXU-RP provides incredible bandwidth to fulfil high-speed file access, backup/restoration and media transfer, while also allowing the flexible allocation of network resources for individual applications and services.

Windows File Transfer (2 x 2.5 GbE, 10 GB file)

Read

579 MB/s

Write

489 MB/s

Windows File Transfer (2 x 10 GbE, 10 GB file)

Read

1946 MB/s

Write

643 MB/s

Tested in QNAP Labs. Figures may vary by environment.

Test Environment:

NAS: TS-1232PXU-RP-4G, OS: QTS 4.4.3

Volume Type: 12 x Samsung 850 Pro 512 GB SSD (RAID 5), thick volume Client PC: Windows 10, Intel Core i7-6700 3.4 GHz, 64 GB RAM, 10 GB file transfer IOmeter: RAM*4, 30-sec ramp up time, 3-min seq. run time, 2 workers, 64-outstanding

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

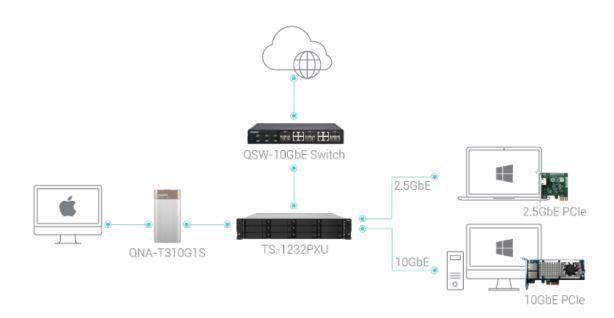
Client: Windows Server 2022 (AMD EPYC 7232P 3.0GHz, DDR4 128GB) with 10GbE NICs

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

Upgrade your network to increase team efficiency

QNAP provides various high-speed network solutions at attainable price points. The QSW network switches provide managed and unmanaged 10GbE and 2.5GbE options for building high-speed networks. QNAP also offers 10GbE / 5GbE / 2.5GbE network expansion cards and a USB to 5GbE adapter for Windows® / Linux® devices, allowing all of your workstations to take advantage of high-speed networks.

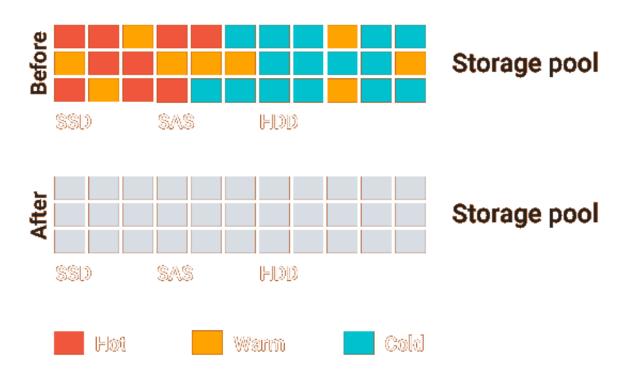


Boost NAS performance with SSDs

As SSDs become more affordable, using SSDs on NAS can improve performance without requiring a heavy investment. The TS-1232PXU-RP supports SSD cache technology, QtierTM auto-tiering storage, and SSD over-provisioning, helping you to balance storage performance, storage allocation, and IT expenses.

Balance performance and capacity

Boost NAS performance by enabling SSD caching. Coupled with QtierTM auto-tiering technology, you can find the perfect storage configuration between high-performance SSD and high-capacity HDD while balancing performance and cost.



Extend SSD lifespan

SSD Extra Over-provisioning allows for adding 1~60% reserved space to avoid performance degradation, helping to increase system stability and extend SSD lifespan.



Multi-point file backup, access and sync

HBS (Hybrid Backup Sync) consolidates data backup, recovery, and data synchronization. With high-speed 10GbE connectivity, you can easily back up or sync data to another QNAP NAS, remote server or cloud storage to build a reliable disaster recovery solution. Qsync turns the TS-1232PXU-RP into a secure, high-capacity data center for file synchronization. Any file uploaded to the TS-1232PXU-RP will be made available for all linked devices, such as computers, laptops, and mobile devices. You can also sync shared folders or create team folders to enhance team collaboration.

Easily find and automatically organize files and photos

The TS-1232PXU-RP provides greater convenience in file management. You can quickly find files using Qsirch, organize photos using QuMagie 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.



Photo management

QuMagie identifies people and objects in photos and supports automated photo categorization, allowing you to easily find similar photos.

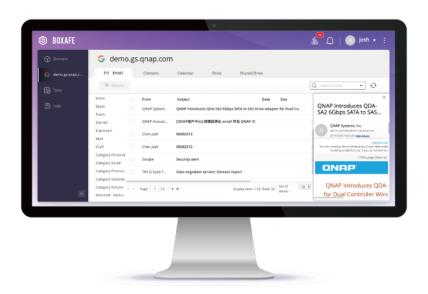


Auto archiving

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

Secure GoogleTM Workspace and Microsoft 365® backup

The convenience of Software as a Service (SaaS) solutions such as Google™ Workspace and Microsoft 365® has led to its adoption by many businesses and organizations. However, many users fail to protect this cloud data against data loss, data recovery limitations, and human error. The TS-1232PXU-RP includes QNAP Boxafe, allowing you to back up files, emails, calendars and contacts from Google™ Workspace and Microsoft 365® to provide an extra layer of data protection for business cloud data.



Low Latency Access to Cloud Data with Cloud Storage Gateways

By deploying cloud storage gateways and enabling local caching on the TS-1232PXU-RP, 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.

Flexibly expand storage capacity whenever needed

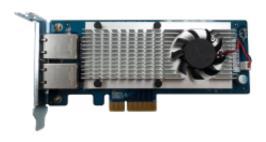
The storage capacity of the TS-1232PXU-RP can be easily expanded to meet growing

data demands. Simply connect a QNAP TR RAID expansion enclosure or TL JBOD to expand storage space on demand. With QNAP's Virtual JBOD (VJBOD) technology, the unused space of the TS-1232PXU-RP can also be used to expand the storage space of other QNAP NAS.



PCIe expandability for greater application potential

The TS-1232PXU-RP includes a PCIe Gen 2 x2 slot, enabling you to expand its application potential by installing a compatible PCIe card.



Network Adapter

Add additional 2.5GbE/ 5GbE/ 10GbE network ports to boost bandwidth-demanding tasks, such as massive data transmission and fast backup/restoration.



QM2 Card

Add M.2 SSD caching or 10GbE (10GBASE-T) connectivity to the NAS for optimized performance and bandwidth.



USB Card

Add QNAP USB 3.2 Gen 2 expansion card to benefit from 10Gbps data transfer performance with newer, faster USB devices for transferring large media files.

Redundant power for dependable services

The TS-1232PXU-RP is equipped with a redundant power supply to ensure maximum service uptime. Combined with dual 10GbE SFP+ and dual 2.5GbE ports, your businesses can easily maintain 24/7 operations, guaranteeing a cost-effective and reliable storage solution.



Software Specs

Operating System
Supported Client Operating
Systems

Supported Browsers

Supported Languages

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

Storage Pool SED Storage Pool Maximum Pool size Maximum number of storage pool Volume Type Maximum volume size	? 308 TB 128 Thick, Thin, Static 250 TB
Maximum number of volume Maximum shared folder size Maximum number of shared folder JBOD Expansion VJBOD / VJBOD Cloud iSCSI Service Fibre Channel Service LUN Type File-based iSCSI LUN Block-based iSCSI LUN Maximum LUN size	Note: At least 4 GB RAM is required. 128 250 TB 512 ? ? ? Thick, Thin ? 250 TB
Maximum number of targets LUN LUN feature Auto Tiering	Note: At least 4 GB RAM is required. 128 1. LUN Mapping (LUN can be moved between iSCSI and FC) 2. LUN Masking 3. WWPN Aliases Import/Export 4. FC Port Group 5. FC Port Binding 6. Multipath IO (MPIO) 7. Online LUN capacity expansion 8. LUN snapshot 9. LUN snapshot replication and clone
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.

RAID Level Migration ? RAID Expansion (by adding ?

Disk)

RAID Expansion (by replacing?

bigger Disks)

Storage Pool Expansion (by ?

adding RAID Group)

RAID Hot Spare Global, Local

RAID Sync/Rebuild/Scrubbing?

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?
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	Check maximum number of snapshots of
System)	your NAS
Maximum Snapshot (Per	Check maximum number of snapshots of
Volume / LUN)	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 (QNAF	?
so on) Management (External	
Device Mode)	
External RAID Device (QNAF	?
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)
TITID (4. NFS version 3/4 services
FTP Server	1. QuFTP
	2. FTP, SFTP and TFTP protocols
	3. FTP over SSL/TLS (explicit FTPS)
Maximum ETD	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
	Automatic cleanup and file type filter
System Log & Notification	Log recording: 3,000 event per second
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	SSH, Telnet, HTTP(S), FTP, CIFS/SMB,
with auto-blocking	and AFP
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	?
vSphere Web Client Plug-in	?
-	

VMware vSphere VAAI for iSCSI	?
VMware vSphere VAAI for	?
NAS W: 1 ODV	0
Windows ODX Windows (VM)word Spanshot	?
Windows/VMware Snapshot Agent	!
HTTP/HTTPS Connections	TLS 1.0/1.1/1.2/1.3
Supports WebDAV	?
Connection	
Supports Virtual Hosts	32
Qsync	?
[O]] M M . 1	Note: At least 1 GB RAM is required.
[Qsync] Management Mode	User customization, Central
[Qsync] Qsync client	Windows, macOS, Ubuntu, Android, and iOS
supported platforms [Qsync] Maximum number of	
version control	04
HybridMount	?
·	
	Note: At least 1 GB RAM is required.
[HybridMount] File Cloud	Concurrent Connections = 20 Upload & 20
Gateway	Concurrent Connections = 20 Upload & 20 Download
Gateway [HybridMount] Network Drive	Concurrent Connections = 20 Upload & 20 Download
Gateway [HybridMount] Network Drive Mount	Concurrent Connections = 20 Upload & 20 Download ??
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud	Concurrent Connections = 20 Upload & 20 Download
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions	Concurrent Connections = 20 Upload & 20 Download ? 2
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud	Concurrent Connections = 20 Upload & 20 Download ??
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions	Concurrent Connections = 20 Upload & 20 Download ? 2
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions	Concurrent Connections = 20 Upload & 20 Download ?? 2 ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup	Concurrent Connections = 20 Upload & 20 Download ?? 2 ? Note: At least 1 GB RAM is required. ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)]	Concurrent Connections = 20 Upload & 20 Download ?? 2 Note: At least 1 GB RAM is required.
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)] Cloud Backup	Concurrent Connections = 20 Upload & 20 Download ? 2 Note: At least 1 GB RAM is required. ? ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)] Cloud Backup [HBS (Hybrid Backup Sync)]	Concurrent Connections = 20 Upload & 20 Download ?? 2 ? Note: At least 1 GB RAM is required. ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)] Cloud Backup [HBS (Hybrid Backup Sync)] Cloud Sync	Concurrent Connections = 20 Upload & 20 Download ?? 2 ? Note: At least 1 GB RAM is required. ? ? ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)] Cloud Backup [HBS (Hybrid Backup Sync)] Cloud Sync [HBS (Hybrid Backup Sync)]	Concurrent Connections = 20 Upload & 20 Download ? 2 Note: At least 1 GB RAM is required. ? ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)] Cloud Backup [HBS (Hybrid Backup Sync)] Cloud Sync [HBS (Hybrid Backup Sync)] 2-way and Active Sync	Concurrent Connections = 20 Upload & 20 Download ?? 2 ? Note: At least 1 GB RAM is required. ? ? ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)] Cloud Backup [HBS (Hybrid Backup Sync)] Cloud Sync [HBS (Hybrid Backup Sync)]	Concurrent Connections = 20 Upload & 20 Download ?? 2 ? Note: At least 1 GB RAM is required. ? ? ? ?
Gateway [HybridMount] Network Drive Mount [HybridMount] Free cloud gateway sessions HBS (Hybrid Backup Sync) [HBS (Hybrid Backup Sync)] NAS to NAS backup [HBS (Hybrid Backup Sync)] Cloud Backup [HBS (Hybrid Backup Sync)] Cloud Sync [HBS (Hybrid Backup Sync)] 2-way and Active Sync [HBS (Hybrid Backup Sync)]	Concurrent Connections = 20 Upload & 20 Download ?? 2 ? Note: At least 1 GB RAM is required. ? ? ? ? ?

External drive backup [HBS (Hybrid Backup Sync)] Maximum number of backup job Boxafe	400 ?
	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
10 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	others
[Qsirch] Integrate Mac Finder [Qsirch] Advanced picture	? ?
search	•
[Qsirch] Search filters	?
QuMagie	?
	Note: At least 1 GB RAM is required.
[QuMagie] Browse photos	?
[QuMagie] Virtual and smart albums	?
	People, things, places, and others
management	
Antivirus (free)	?
QVPN Service	?
	Note: At least 1 GB RAM is required.
[QVPN Service] Remote	PPTP, L2TP/IPSec, OpenVPN, QBelt
Access	(QNAP proprietary) Windows macOS iOS and Android
[QVPN Service] Supportedd utility and mobile app	Windows, macOS, iOS, and Android
[QVPN Service] Supported	100
maximum clients	
LDAP Server RADIUS	? ?
SQL server	?
•	

T	
License Center	?
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 GB RAM is required.
[Container Station] Supported	I XC/I XD and Docker
trino	LAC/LAD and Docker
type	EAC/EAD and Docker
type	Note: LXD has been supported after
type	
[Container Station] Docker	Note: LXD has been supported after
	Note: LXD has been supported after Container Station 2.4
[Container Station] Docker Hub Registry	Note: LXD has been supported after Container Station 2.4
[Container Station] Docker	Note: LXD has been supported after Container Station 2.4

?

?

[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 Index database based **Technique** [QVR Pro] License Type Perpetual [QVR Pro] User-defined ? trigger events [QVR Pro] Metadata [QVR Pro] QVR Pro Client Windows, macOS, and QNAP HybridDesk Station (Desktop) Android and iOS [QVR Pro] QVR Pro Client (Mobile) [QVR Pro] Recording camera H.264 streams 8 [QVR Pro] Free built-in camera channels **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. Standard MP4 file based [QVR Elite] Recording **Technique** [QVR Elite] License Type Subscription-based [QVR Elite] User-defined ? trigger events [QVR Elite] QVR Pro Client Windows, macOS, and QNAP HybridDesk Station (Desktop) [OVR Elite] OVR Pro Client Android and iOS (Mobile) [QVR Elite] Recording camera H.264 streams [QVR Elite] Free built-in 2 camera channels ? **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

Specification	
NAS	
CPU Model	AnnapurnaLabs Alpine AL324 64-bit ARM®
	Cortex-A57 4-core 1.7GHz processor
CPU Architecture	64-bit ARM
Hardware Encryption	?
Engine	
Memory	4 GB UDIMM DDR4 (1 x 4 GB)
Drive Bays	12
Compatible Drive Type	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
Hot Swappable Drive	? (Not supported M.2 SSD)
USB 3.2 Gen 1 Port	4
System Fan	2 x 70mm, 12VDC
Power Supply Unit /	250W (x2) PSU, 100 - 240V
Adapter	
Total Memory Slots	1 x UDIMM DDR4
Maximum Memory	16 GB (1 x 16 GB)
Capacity	
M.2 Drive Slots	Optional via a PCIe adapter
PCIe Expansion	1 Slot 1: PCIe Gen 2 x2 PCIe bandwidth
	limitations will restrict the NAS 10GbE
	performance. Card dimensions for PCIe slot?220 x
	68.9x 18.76 mm / 8.67 x 2.71 x 0.74 inches.
Form Factor (RU)	2U Rackmount
Floating Point Unit	?
Flash Memory	512 MB (Dual boot OS protection)
Wake on LAN (WOL)	? Only the 2.5GbE port
Jumbo Frame	?
LED Indicators	HDD 1-12, Status, LAN, Storage expansion
Buttons	Power, Reset
Operating Temperature	0 - 40 °C (32°F - 104°F)
Storage Temperature	-20 - 70°C (-4°F - 158°F)
Relative Humidity	5-95% RH non-condensing, wet bulb: 27?C
	(80.6?F)
System Warning	Buzzer

Max. Number of	700
Concurrent Connections	
(CIFS) - with Max.	
Memory	

Product Gallery









