

QNAP®

Business Solution Guide





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About QNAP



Founded in 2004, QNAP is committed to providing efficient, reliable, and innovative technology solutions to meet the diverse needs of professional users and businesses of all scales.



Global Services

QNAP provides professional and stable services worldwide and ensures localized support.

14+

subsidiaries

50+

countries served worldwide

A Brand Trusted by Professionals



Products

We deliver integrated storage, networking, and smart surveillance solutions, combining advanced software and hardware to drive business digital transformation.



Long-term Availability

Our long-term commitment to supporting models ensures consistent NAS performance and streamlined management for long-term projects.



Warranty

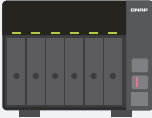
Standard hardware repair and service are available for all QNAP products. An extended warranty is available for up to five years.



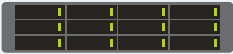
Product Lineups

Network Attached Storage (NAS)

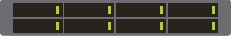
Form-factor




Tower
Sleek desktop design fits small and medium offices.



Rackmount
Install multiple in racks for easy maintenance.




Short-depth
Up to 38% shorter rackmount NAS.




Set-top
Portable NAS for photography/videography professionals.


Flagship Models



All-flash Array
U.2 NVMe or SATA SSD all-flash NAS series.



Dual Controllers
Active-Active controller offers high availability.




HDD/SSD Hybrid
Combines advantages of HDD and SSD in a single unit.

Supported Connections


Drive Interface	Ethernet	Connection Port	Expansion Port	Output Port
SATA/SAS/PCIe NVMe	2.5/10/25/100GbE	Thunderbolt™ 4	PCIe expansion slot	HDMI™

Expansion Devices


Form-factor



Tower



Rackmount




Short-depth

Supported Specifications


Connection Interface	Drive Interface	Supported Devices
SAS/PCIe/SATA/USB	SAS/SATA	QNAP NAS, PC, Server

Networking Switch


Multiple Link Speeds




2.5GbE



10GbE




25GbE

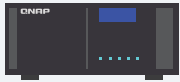


100GbE


Special Design




Half-width




Switch + NAS



Cybersecurity NDR equipment



Industrial

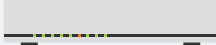


Fanless

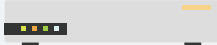
Supported Specifications

Multiple ports	Network Management Type			Power over Ethernet (PoE)	
	L3 Lite Managed	L2 Managed	Unmanaged	PoE	Non-PoE
5 to 24 ports					

Router

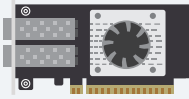


WiFi 6 (2.5/10GbE)

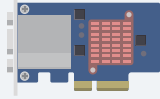


SD-WAN (2.5/10GbE)

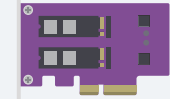
Accessories



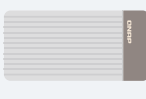
Interface Card
SAS/PCIe/SATA



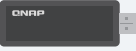
Network Card
2.5/5/10/25/100GbE



M.2 SSD Expansion Card
NVMe/SATA



Network Adapter
Thunderbolt™/USB/
Ethernet



AI Acceleration Module



See all models online.



Data Storage and Backup



QNAP's storage solutions deliver efficiency, security, and scalability, empowering businesses across applications like AI and long-term data retention compliance to drive transformational success.

Backup

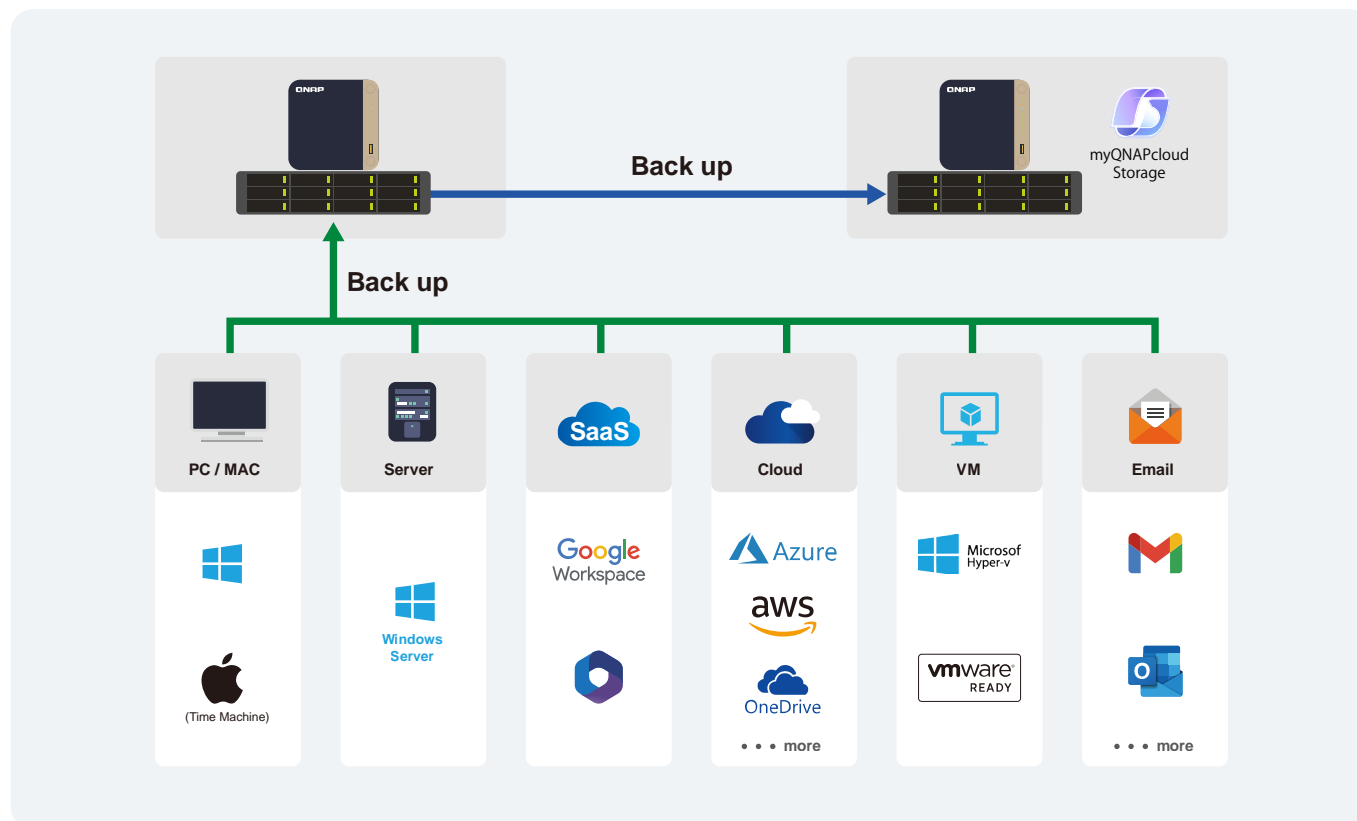
A comprehensive solution supports businesses with full data backup, simplifies data management, and ensures rapid, effective disaster recovery for enhanced continuity and security.

Why Business Chooses QNAP

- Reliability**
 Complete hardware and software solutions ensure data integrity and availability.
- Easy Management**
 Intuitive interfaces simplify data backup and recovery.
- Security**
 Multilayer security protects data from threats.
- Cost Efficiency**
 Save time and effort by easily building hybrid cloud backup architecture.
- Scalability**
 Meets storage needs of enterprises of all scales.
- High Compatibility**
 Supports third-party drives and backup software for flexible deployment.

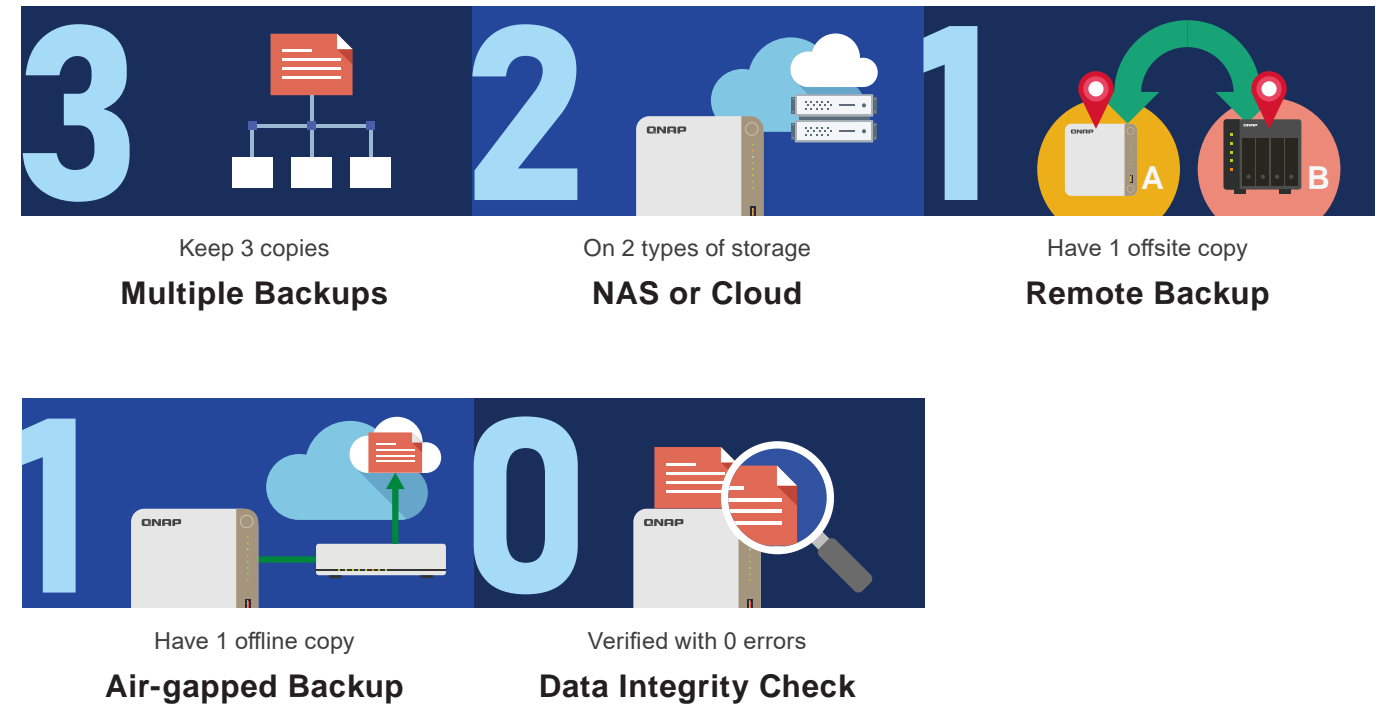
All-in-one Solution

Build a highly agile system to prepare for any disaster.



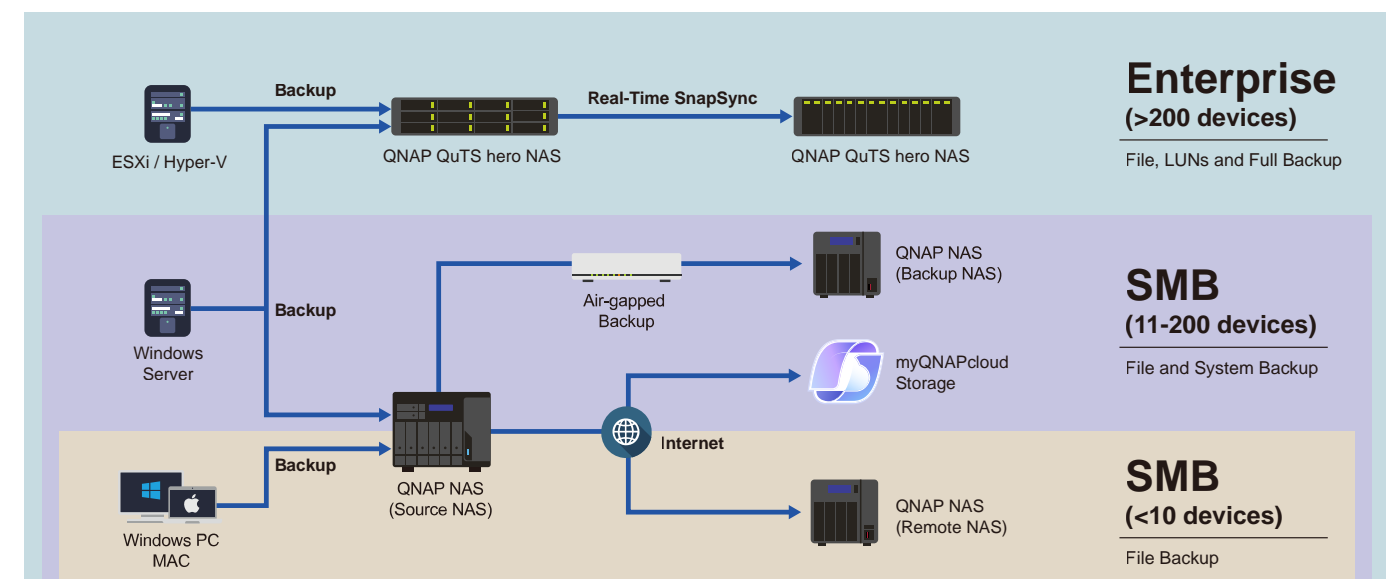
3-2-1-1-0 Backup Rule

Fully prepare against data losses due to hardware failures, natural disasters, or ransomware attacks. QNAP offers hybrid cloud solutions that integrate both hardware and software. Following the 3-2-1-1-0 backup rule, these solutions protect your digital assets.



Cover All-sized Business Needs


QNAP provides flexible, scalable backup solutions for businesses of all sizes, from small start-ups to large multinationals, ensuring robust data security and uninterrupted business continuity.








| Stable, Fast, Remote Backup

Achieve highly efficient and flexible remote backup through improving system stability and network performance, saving time and space.

 **Source-side Deduplication**
Data deduplication technology streamlines backup sizes, allowing storage savings of up to 75%.

 **Auto-select the Best Network Port**
The system automatically selects the best network port, minimizing latency and increasing transfer speed.

 **Failover**
Instantly creates a disaster recovery plan for RPO=0. (Supported by QuTS hero)

 **Air-gapped Backup**
Isolates backup NAS from external networks to protect against ransomware and unauthorized access.

| Disaster Recovery

Speed, simplicity, and efficiency are key to recovering enterprise data in the event of a disaster.

Fast Recovery

Technology such as synthetic incremental backup minimizes downtime and business loss.

Full System Recovery

The entire work environment will be rebuilt quickly, while ensuring the integrity of both data and the system.


Granular Recovery


Save time and effort with partial restoration of specific folders or individual files.




| Data Availability and Security


Protect critical corporate data against malicious tampering, deletion, or ransomware.


 **Access Control**
Flexibly set access rights for users and folders.

 **Connection Security**
Secure your connections from external threats using technologies such as VPNs and firewalls.

 **Versioning & Retention**
Ensure data integrity and space efficiency.

 **Snapshot Recovery**
You can record the status of the system and data at any point in time and thereafter restore it to this status.

 **Encryption**
Supports AES-256 and Self-Encrypting Drives (SED) for entire storage pools or individual folders.

 **RAID Redundancy**
A hot spare drive rebuilds data from healthy drives, ensuring continuous system operation if a failure occurs.

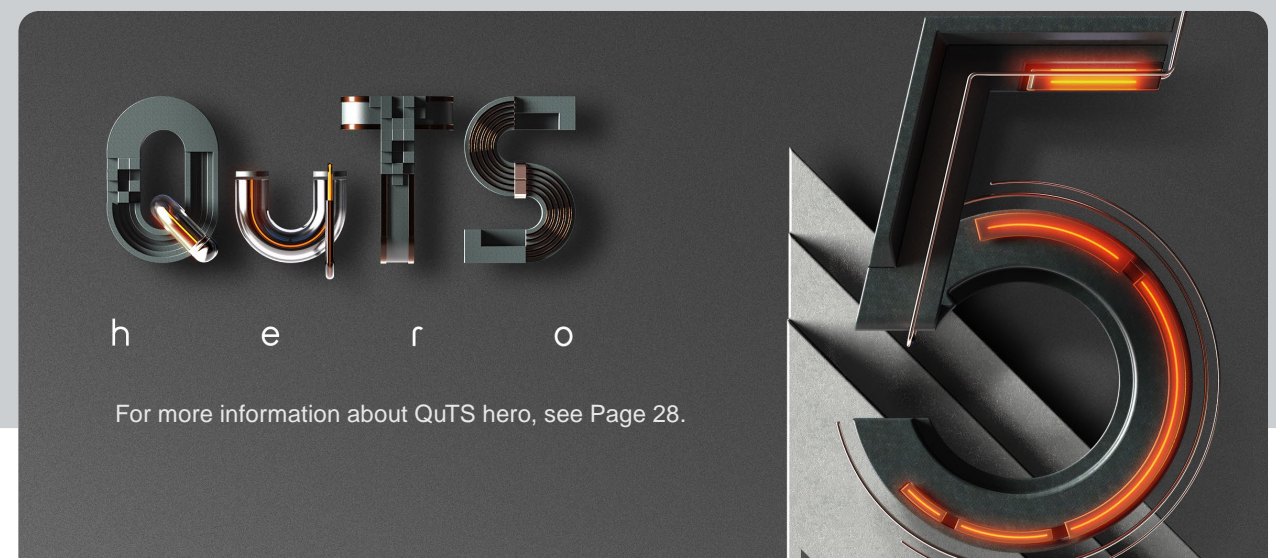
QuTS hero NAS with ZFS File System Ensures Data Integrity

WORM

Once written, data in the WORM folder cannot be modified or deleted. Complying with data storage requirements has never been easier.

Self-healing

Checksum verification is performed on all data blocks and automatically detect and correct silent data corruption.



Centralize Multi-Device Backup Tasks in the Cloud

Manage large-scale, cross-site backup/restore tasks across 10+ NAS devices from a single interface.



Hybrid Backup Center

Easy Management

You can manage all NAS backup, schedule multiple tasks, and restore data centrally.

Topology Visualization

A topology diagram provides overviews of all backup paths, targets, and statuses.

Real-time Monitoring

All task statuses, NAS devices, target devices, and backup logs are controlled through a dashboard.



QNAP-hosted Cloud Services

Hybrid cloud enhances data storage resilience while providing multi-site and multinational enterprises with instant access to services and improved ease of use.



myQNAPcloud Storage

A cloud-based NAS backup service with multi-platform access, offering enterprises a hybrid cloud storage architecture that ensures data reliability and availability.

99.999999999%
Durability



Immutability



Secure
Connections

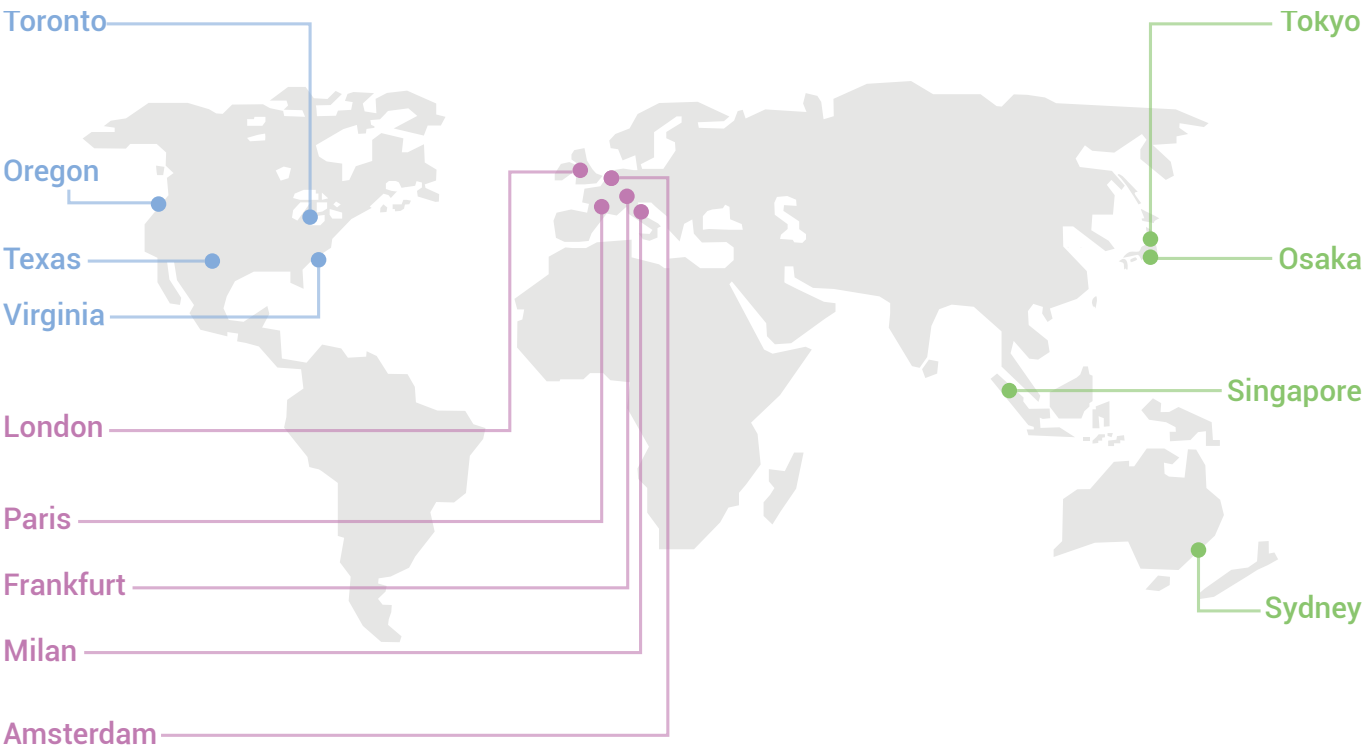


Easy-to-Scale



Covered by 13 Data Centers Worldwide

Fast and secure data transfer and use, even for multinationals.



myQNAPcloud One 3-in-1 Cloud Solution

A secure, scalable, and cost-effective cloud storage service that empowers enterprises to configure 3 types of data storage tailored to their needs.



myQNAPcloud One

myQNAPcloud Storage



Cloud file storage

myQNAPcloud Object



S3-compatible cloud object storage

myQNAPcloud Surveillance

(Coming Soon)



Cloud-based surveillance footage storage



myQNAPcloud Link

QNAP Remote Secure Connection Made Simple

Access your NAS via the internet using a unique domain name, eliminating the need for complex DDNS configuration.

Easy Access

Connect to QNAP NAS with a personalized SmartURL.

Highly Secured

Encrypted connections are established using Relay Server or Point-to-Point (P2P) technology.

Automatic Connection Optimization

The server automatically selects the best connection method.

Featured Backup Apps

Hybrid Backup Sync

For NAS, Server, and Cloud



- Supports local, remote, and cloud backup
- Automatically uses the best network port
- Source deduplication
- Supports Air-gapped isolated backup

Boxafe

For SaaS



- Supports Google™ Workspace and Microsoft 365®
- Back up data from 10,000 cloud accounts at once
- Supports incremental backup and granular recovery

MARS

For Third-party Apps



- Supports WordPress websites
- Supports Google Photos
- Manual/Scheduled auto backup
- Version control

Hyper Data Protector

For VMs and Windows® PC/Server



- Supports VMware® and Hyper-V
- Store up to 1,024 versions of virtual machines
- Windows® PC/Server
- Synthetic incremental backup, global deduplication, and compression

Storage & Snapshots

Manage Storage Spaces



- Builds and manages RAID, storage pool, disk area/LUN, and SSD cache
- Monitor disk health
- Take snapshots
- Manages JBOD storage space

Qsync

File/folder Sync



- Sync files and folders between the NAS and connected devices
- Customize file conflict resolution rules
- Version control
- Space-saving mode

QmailAgent

For Email



- Backup multiple email accounts
- Supports third-party mainstream email services (including Gmail, iCloud, and Outlook) and IMAP protocol email services
- SSL encrypted transfer



Reliable Operation

A comprehensive range of storage, service, and networking solutions ensure seamless business continuity.

RAID and Fault Tolerance

Reduce Risk of Data Loss

RAID technology virtually combines multiple disks into a single storage space, distributing data to safeguard against hard drive failure. QNAP incorporates RAID 50/60—once limited to high-end storage devices—into its NAS for enhanced data protection.

RAID Type	0	1	5	6	10	50	60	Triple Parity
Minimum drives required	2	2	3	4	4	6	8	5
Drive failures tolerated	None	1	1	2	1 per sub-array	1 per sub-array	2 per sub-array	3

Why is RAID 50/60 so important to enterprises?

RAID 50/60 strikes a balance between capacity, protection, and performance for high-capacity NAS with multiple drive configurations. For businesses using a NAS with over 10 drives, RAID 50/60 not only provides greater data protection than a single RAID 5/6, but also maximizes usable storage space compared to RAID 10.

Minimize Downtime

Protect your business by minimizing server down time caused by capacity shortage or disk failures.

Auto Data Migration



System automatically moves data from the potential failure disk in a RAID group to a spare disk.

Hot-spare



The RAID group is automatically rebuilt using the hot-spare disk.

Expand a RAID



Easily expand a RAID group by replacing all disks with higher-capacity disks.

Change a RAID Type



Change the RAID group by adding additional hard drives.

(Not all RAID types are supported.)

Scalability

Enterprise data rapidly grows, and flexible storage expansion is essential. QNAP's highly scalable solutions support business continuity, providing a strong foundation for both expansion and data backup needs.

Expand Storage Space

Upgrade to Larger Capacity Drives



Expand with JBOD



Mount Cloud or Remote Servers



Migrate to a Larger NAS



Petabyte-scale Storage

Flexibly combine our flagship All-Flash Array or HDD-based rackmount with JBODs for higher storage capacity and enhanced performance.

Suitable for a Wide Range of Fields

- Enterprises
- Multimedia Production
- AI
- Surveillance Recording



High Availability

Build a highly available environment to reduce RTO (Recovery Time Objective) in case of mission-critical systems failure.

NAS

Hardware HA

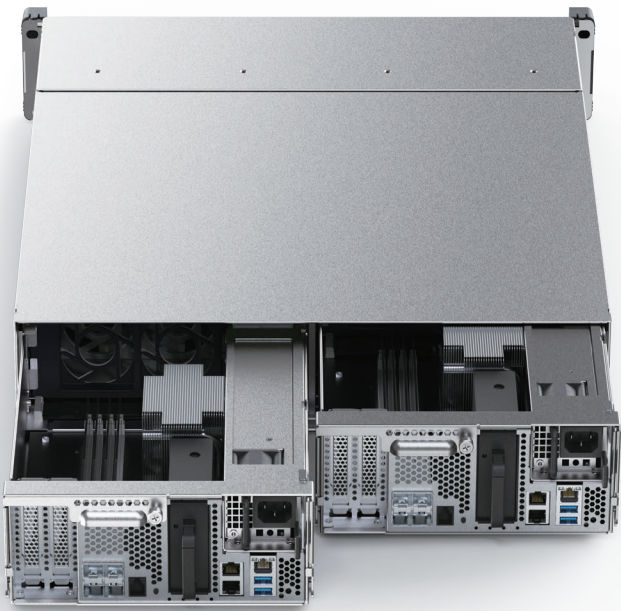
Dual-Controller NAS

The Active-Active controller architecture saves physical space and maintains uninterrupted business through failover.

Software HA

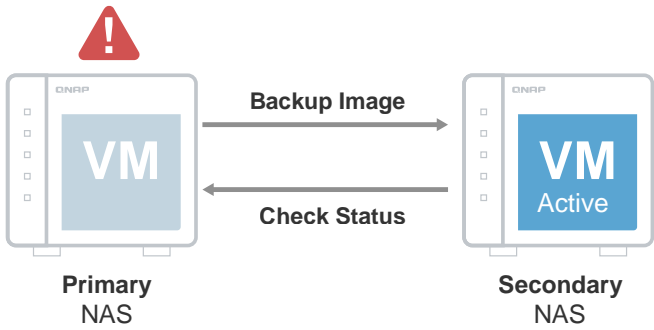
HA Manager (Coming Soon)

Set up two identical NAS devices as an High Availability Cluster, enabling automatic failover to ensure continuous service if unexpected issues arise.



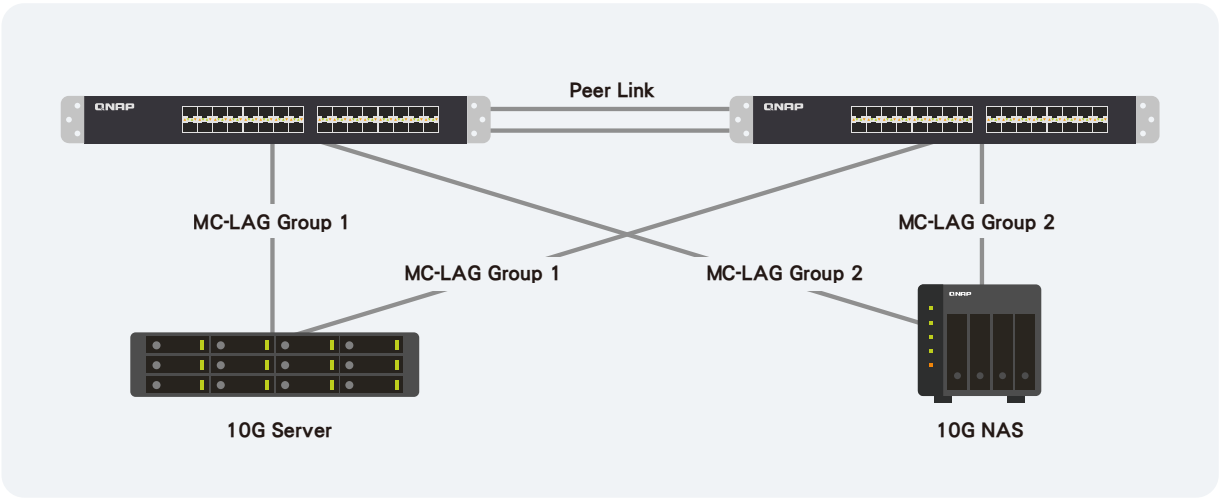
Virtual Machine (VM) (Coming Soon)

Protect virtualized services and applications from downtime.



Switch

Supports MC-LAG (Multi-Chassis Link Aggregation Group) to provide high availability backup at server and switch levels. This ensures uninterrupted network switching even with one or more physical connection failures.



Monitoring System Resources

Efficiently monitor system operation and be prepared for problems and malfunctions.



System

Dashboard

Displays overall system status such as firmware, CPU/RAM usage, system health, and online users.

Notifications

Receive alerts via email, SMS, apps, or web browser push notifications for system events.

Logs

Review logs including access and events from local and remote devices.

Storage and Drives

Storage Status

Quickly access a summary of the status of all volumes, LUNs, and storage pools.

Disk Information

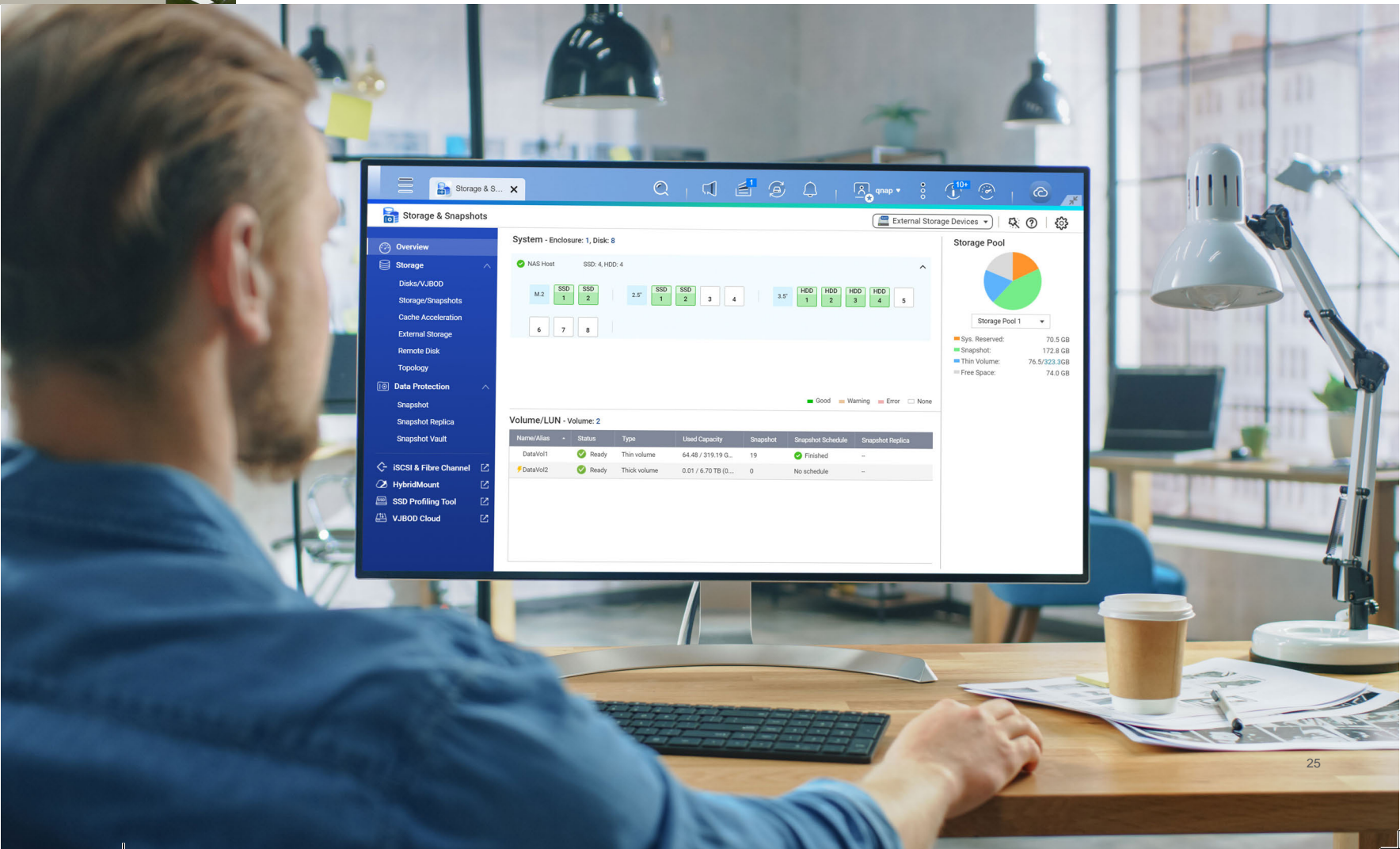
View visual indicators for health, S.M.A.R.T. status, temperature, and detection results.

AI-driven Failure Prediction

Analyze past disk usage data to predict failure risks within the next 6 months.

Warning Notification

Receive notifications if a drive is predicted to fail.



Cybersecurity

Resilience is the key for modern cybersecurity – keeping your system secure and agile.

Security Control

Connection Protection

A host-based micro segmentation firewall with mesh VPN service creates the ultimate secure connection network.

Permissions Control

Secure access with MFA, centralized management, and delegated administration.

Security Assessment

Analyze and monitor system status, abnormal file activity, and potential cyber threats with real-time alerts.

Network Detection & Response (NDR)

QNAP's ADRA NDR solution detects and analyzes abnormal traffic to detect malicious activity on the Intranet, and automatically isolates infected devices.

Cost Effective

Better choice than traditional EDR.

Network Performance

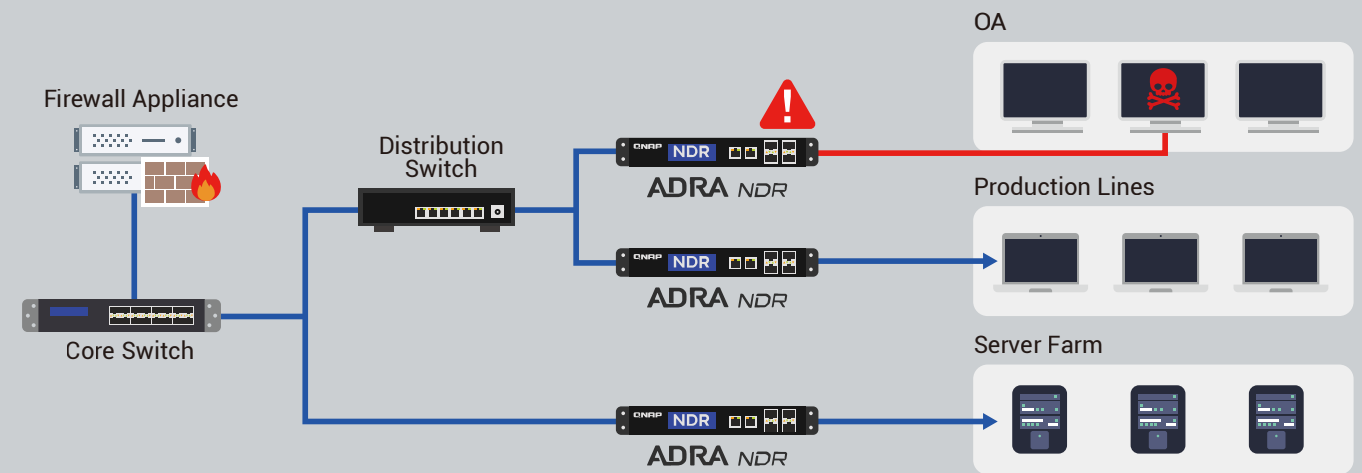
Does not affect the throughput of storage and services.

Deployment

Simply install the ADRA NDR on the access-level switch.

Easy

Visualize the network risks and send alerts.



ADRA detects, analyzes, and isolates suspicious packets.

Disaster Recovery

All-in-one Backup

Perform all backup tasks from a single NAS.

Snapshots

Block-level snapshots remain intact, even if files on the NAS are compromised by ransomware.

Fast Recovery

Instant system and file restoration minimizes RPO and RTO.

For more information about backup solution, see Page 12.



QNAP's Commitment

QNAP is deeply committed to the security of enterprise data and continuously works to enhance product security. Our Product Security Incident Response Team (PSIRT) actively responds to security incidents, effectively mitigating ransomware and other malicious activities to ensure the safety of your data.

9 hours

Security issues investigated

+

14 hours

Security issues fixed

<

24 hours

Rapid response



Simplified Management

Efficiently manage huge volumes of data and simplify top-down management processes.

Operating System

A reliable operating system (OS) is essential for the secure and stable operation of a system or network. Since QNAP devices use a common OS, business users can always benefit from the latest security and quality, even years after purchase.

QTS

The standard NAS operating system based on Linux and ext4, providing excellent everyday performance and efficient memory utilization. It is suited for cross-team file sync and HDD-SSD hybrid storage applications.

QuTS hero

A high-end enterprise NAS operating system based on Linux and ZFS, supporting advanced data optimization technologies to drive down costs and increase the reliability of all-flash (SSD) storage.

QuTS hero: Designed for Enterprise

ZFS storage solutions are superior to Ext4 and Btrfs in terms of data integrity, performance optimization, and scalability. They are ideal for enterprises that require high stability and have heavy data loads.

Protect Data Integrity



Exceptional self-healing and enhanced RAID fault tolerance, with Write Once, Read Many (WORM) ensuring data immutability and compliance.

Excellent Read/Write Cache Performance



Reduces latency and boosts performance with Main Memory Read Cache (L1 ARC), SSD Read Cache (L2 ARC), and ZFS Intent Log (ZIL), which also enhances power-down protection.

Deduplication and Compression Algorithms



Substantial storage savings through online deduplication, compression, and compaction, optimizing disk capacity.

Improve SSD Performance and Durability



Supports SSD TRIM, Plugin Reserved Space, and QNAP's Write Coalescing and QSAL to reduce random writes, extending SSD lifespan and boosting performance.

Supports Three Major Storage Types

Utilize QNAP NAS with a flexible selection of storage types according to business requirements.

File Storage

QNAP NAS supports SMB/CIFS, AFP, WebDAV, and NFS protocols, enabling cross-platform file sharing and network drive mounting.

- Zero-latency synchronization for seamless team collaboration.
- Version control saves each file version separately for easy management and restoration.
- Flexible folder sharing for secure data exchange between teams and departments.
- Granular access control ensures robust security.

Object Storage

With S3 compatibility, high scalability, and flexibility, the NAS supports long-term storage of large data volumes, ideal for AI/Ops and Data Mesh development.

QuObjects

On-Premises Object Storage



Certified Veeam Ready – Object with Immutability, featuring Object Lock functionality.

myQNAPcloud Object Cloud Object Storage



Supports free API calls for efficient communication and seamless data or functionality sharing.

Block Storage

Configures high-performance SAN architecture via iSCSI or Fibre Channel protocols.

- Ideal for large structured datasets, including databases, virtualization platforms, and container workloads.
- Supports iSER acceleration with RDMA to enhance transfer performance and reduce CPU load.



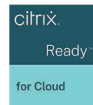
Virtualization

Supports unified storage for virtualization, virtual machines, and containers.

Trusted Virtualization Storage

With scalable capacity and high-speed networking, QNAP provides an optimal solution for virtual environments, remote backup, long-term data retention, and disaster recovery.

- Compatible with VMware® vSphere™, Microsoft® Hyper-V®, and Citrix® XenServer™.
- Includes CSI Plugin for Kubernetes® to support containerized workloads.
- iSER acceleration improves transfer performance with VM servers while reducing CPU usage.
- Compatible with Veeam® and NAKIVO® for reliable virtual machine backups.



Virtual Machines and Containers

QNAP NAS supports virtual machines and containers, enabling flexible multi-tenant deployments and applications to enhance management efficiency and reduce hardware costs.

Virtual Machines (VMs)

Supports Windows®, Linux®, and QuTScloud.



Containers

Supports Docker®, LXD and Kata Containers.



Multi-Site Device Management

- Cloud-based monitoring and management of geographically dispersed NAS and switches.
- Set up systematized local control management permissions for your organization, sites, and human groups.
- Allows for delegation and sharing of administration duties, reducing IT administrative burdens and improving the flexibility of disaster response.



AMIZcloud Cloud Management Platform

Centralized management of multiple devices from a single interface reduces repetitive tasks and allows multiple tasks to be performed remotely, including:

Timely OS Updates

Customizable Notifications

Power Control

Batch Application Installation

Ideal for

Retail

Retail, logistics, or banking units that need to manage large-volume, multi-site systems.

Multinationals

Multinational enterprises that need to configure hierarchical access control based on role or country/region.


MSP

(Management Service Providers)

Service providers who need to manage multiple devices for different customers.


Featured Tools and Applications

DA Drive Analyzer
AI Disk Diagnostics




- Predicts risk of drive failure within the next 6 months
- Analyzes SATA, SAS, and NVMe drives
- Sends warning notifications with logs
- Ensures security and privacy via proxy

Storage & Snapshots
Storage & Snapshots Manager




- Builds and manages RAID, storage pools, disk volumes/ LUNs, and SSD cache
- Monitors drive health
- Creates, manages, and backs up snapshots
- Manages JBOD storage space

QuLog Center
System Logs




- Centralized monitoring of logs from multiple devices
- Detailed system logs, including events, logins, active users, and notifications
- Real-time alerts for critical events

QuObjects
On-prem Object Storage




- S3 compatible with extensive API support
- Certified Veeam® Ready Object with Immutability
- Supports versioning and object lock
- Compatible with multiple client management tools

Network & Virtual Switch
Virtual Network Management




- Centralized management of wired, wireless, physical, and virtual networks
- Visualizes NICs
- Configures VLANs and IP addresses
- Integrates with VMs and containers

Notification Center
Manage Notification




- Unified interface for system events, alerts, and notifications
- Supports email, SMS, instant messaging, and push notifications
- Customizable notification rules

Security Center
Secure NAS Systems




- Scans the NAS once or on a schedule based on security level
- Automatically activates protection measures during exceptions
- Provides timely warning notifications
- Integrates with anti-virus software

QuFirewall
Firewall




- Allows or denies access for specific IP addresses and regions
- Blocks suspicious packets from Tor
- Dynamically updates the list of new malicious packets daily
- Provides firewall event statistics and a packet rejection log

Virtualization Station
Virtual Machine Workstation (Hypervisor)




- Supports VMs for Windows®, Linux®, and UNIX®
- Configures virtual networks and resource allocation
- Allows VM export/import, dynamic migration, and snapshots

Container Station
Run Containers




- Supports LXD, Docker®, and Kata Containers
- Full management and access control
- Enables container import/export
- Access to Docker®, LXD, and Kata marketplaces

Malware Remover
Protects Against Malware




- Schedules automatic scans
- Maintains a complete scan log
- Automatically updates malware definition files from the cloud

QVPN Service
Virtual Private Network



- Supports VPN server and client
- Compatible with WireGuard®, PPTP, OpenVPN, L2TP/IPsec, and QBelt Multi-Protocol
- Supports 256-bit encryption

QuWAN
SD-WAN Network Optimization



- Automatic IPsec Mesh VPN setup
- Dynamic routing with multi-WAN load balancing
- Supports End-to-end encryption
- Smart bandwidth optimization
- Centralized cloud management



Team Collaboration

Optimized data management enables seamless team collaboration, enhancing operational efficiency and maximizing productivity across the workplace.

| Data Management

Boost productivity with a smart file center on QNAP NAS, enabling seamless file access and management for teams.

Fast Access

Achieve low-latency data access with powerful processors and high-speed configuration (2.5/5/10/25/100GbE).

Smart Search

Supports full-text search and AI semantic search for fast retrieval of all file types.

Version Control

Allows record edits and prevents accidental data loss.

Automatic Archiving

Customizable file filters and rules for automated organization.

| File Sharing and Collaboration

Enables secure, efficient teamwork across distances, devices, and platforms, fostering collaboration across departments and borders, regardless of location.

Zero-latency Sync

Multi-device sync and version control keep files current and prevents use of outdated data.

Centralized Management

Access all files through a single interface, with cloud storage mounted for LAN-like speeds.

Permissions Control

Granular permissions limit access and edits to authorized users, preventing data breaches or deletions.

Integrated Collaboration

Integrates with a variety of collaboration tools to support a wide range of tasks and projects.



"Simple and safe. QNAP NAS gives the ability to access files from anywhere."

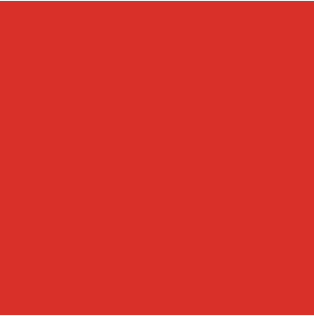
Adam Decor Center (Interior design company in Bangkok)

QNAP's easy-to-operate NAS and switches increased the productivity of multi-point team collaboration for Adam Decor Center.



Multi-endpoint Connection

Comprehensive network security and advanced management simplify remote multi-point deployments, enabling seamless global operations on an efficient network architecture with enhanced privacy protection.



NAS as VPN Server

QVPN Service provides secure virtual private network (VPN) connections between the QNAP device and the user's devices to protect network traffic from interception.

- Supports WireGuard®, PPTP, OpenVPN (including ExpressVPN™, NordVPN®, Surfshark®, Astrill®), L2TP/IPSec, and QBelt protocols.
- Supports Windows/Mac tools and mobile applications.



SD-WAN Solution

QuWAN Orchestrator offers a convenient and robust cloud deployment and central control platform for managing mesh networks across all organizational regions, with intelligent bandwidth optimization and traffic prioritization.

- Enables fast setup of private networks (Auto Mesh VPN) across regions, ensuring secure and multi-point communication with IPsec encryption.
- Supports authentication via Windows AD/LDAP and SAML SSO (Microsoft Entra ID or Google Workspace Admin)
- QuWAN vRouter Edition can be deployed on compatible VMware ESXi virtualization platforms and devices.

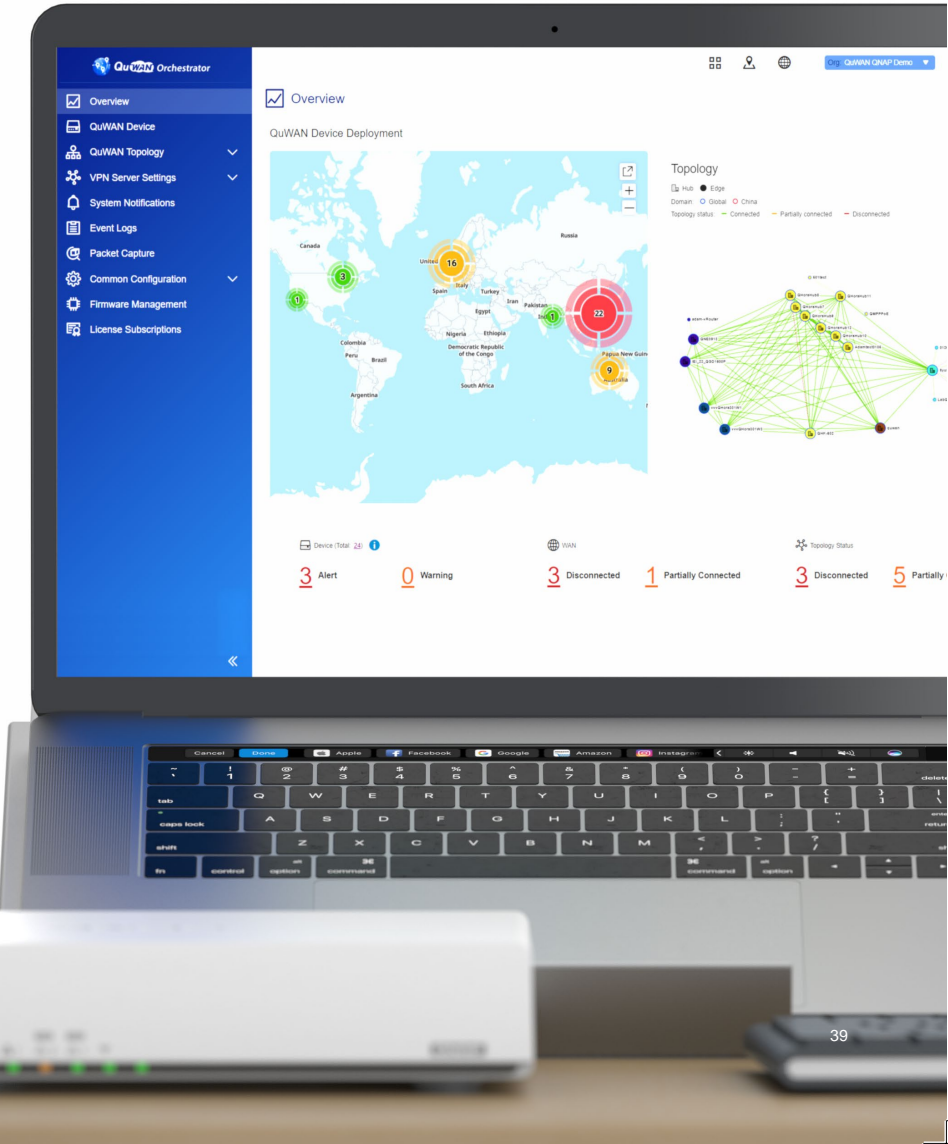
Cost-saving

Centralized Management

Topology Visualization

Bandwidth Optimization

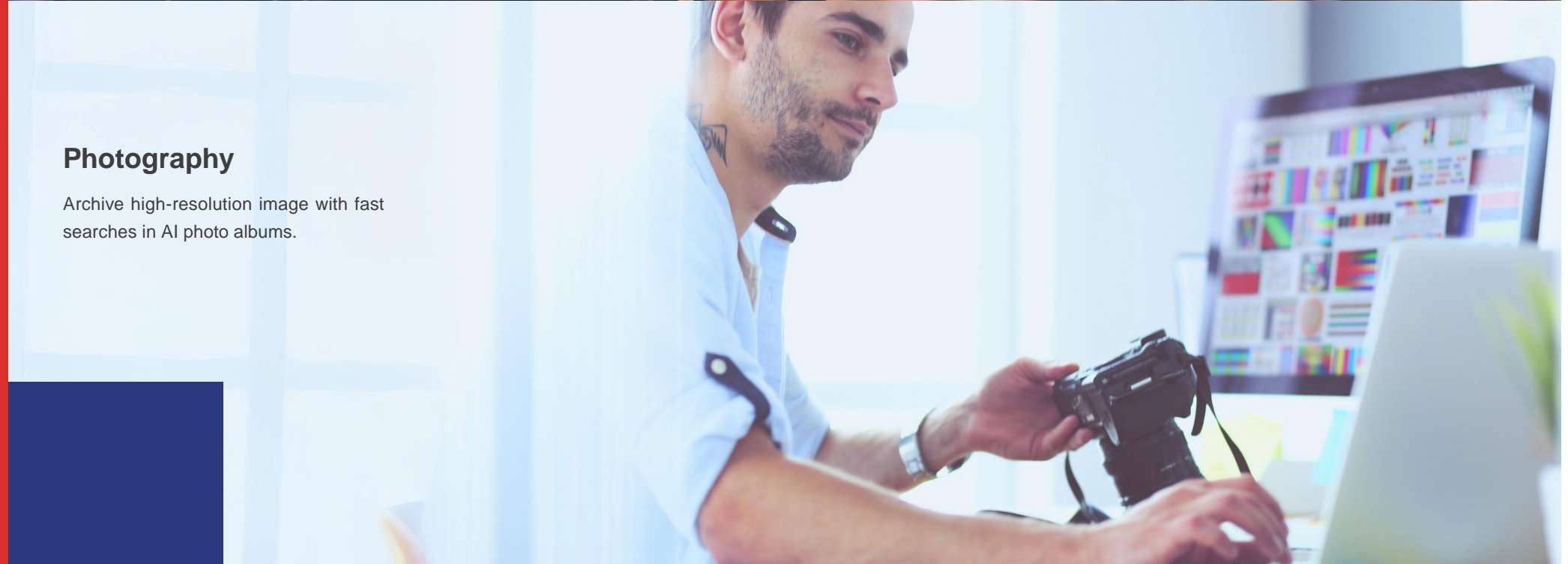
Cybersecurity Protection





Film and Animation

High-speed editing and post-production enable teamwork across multiple workstations.



Photography

Archive high-resolution image with fast searches in AI photo albums.

Content Creation

Powerful performance and flexibility ensures the complete protection of audio and video files, facilitating a smoother creative process and enhanced productivity for content creators.

| Preferred Brand for Professionals Worldwide

- **Industry-leading Hardware:** Delivers high computing performance, fast storage, and high-speed connectivity to accelerate workflows for studios and teams.
- **High-Speed Transfer:** Supports 10/25/100GbE networks for fast access and accelerated workflows.
- **Cross-platform Access:** Facilitates concurrent access to NAS folders for Windows® and Mac® users, enhancing collaboration.
- **Real-time File Conversion:** Supports efficient format adaptation through NAS hardware-accelerated file conversion.
- **Access Control:** Strengthens data security with customizable file and folder access controls for teams and individuals.





Music Production

Enjoy seamless production with more free space and easy remote access.

Videography

Quick remote file sync boosts productivity through online sharing and editing.

Premium Equipment for Creative Workflows

File Management Center

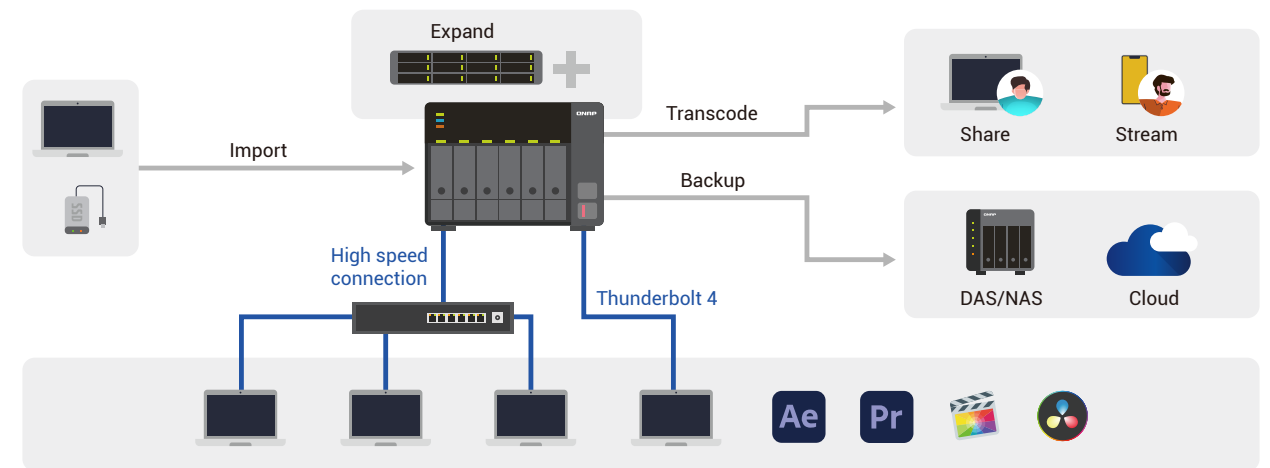
Import projects and RAW files effortlessly via Ethernet, Thunderbolt™, or USB, making NAS access as straightforward as a local folder.

Collaboration and Sharing Platform

Establish a shared library within Adobe Premiere Pro® and DaVinci Resolve® to enhance team collaboration through virtualization.

Archive Large Volumes of Work

Offers flexible and cost-effective PB-level storage expansion for secure backups and scalable project file management.



Supports a Wide Range of Editing Software

Integrates seamlessly with leading editing software, enabling users to achieve more with less effort.



All-flash Array

Award-winning flagship with high performance and stability.

Portable Design

Light and powerful, with high-speed Ethernet for on-the-go users.

Hybrid Storage

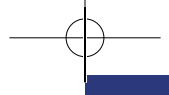
Blends SSD speed and HDD capacity for optimal performance.

10/25/100GbE Switch

Boosts network speed and team productivity.

QNAP × **Adobe**

QNAP is an official partner for Adobe solutions



Video Surveillance

A one-stop surveillance solution with integrated software and hardware, ensuring the safety of premises and personnel through AI tools and event notification.

- Simple Architecture
- Easy Maintenance
- Cost-effective

Supported Surveillance Systems

QNAP QVR System

Offers subscriptions or one-time purchase plans for building a professional video surveillance system.

- Manage surveillance through both PC and mobile device.
- Supports backup and fault tolerance.
- Provides a CMS platform centralized surveillance management.
- Open API allows custom development and integration.

Third-party System

Compatible with Milestone® XProtect and Nx Witness™ VMS platforms.

- Certified storage devices.
- Protect large volumes of high-definition image files.
- Quick and simple deployment to existing architecture.
- Provides elastic scaling up to PB level.



As Surveillance Storage Server

- Compatible with 95% of the IP cameras on the market (supports the ONVIF® standard).
- Large-capacity and highly scalable storage space.

Surveillance NAS

Equipped with a NAS OS, it supports surveillance applications and additional versatile functionality.

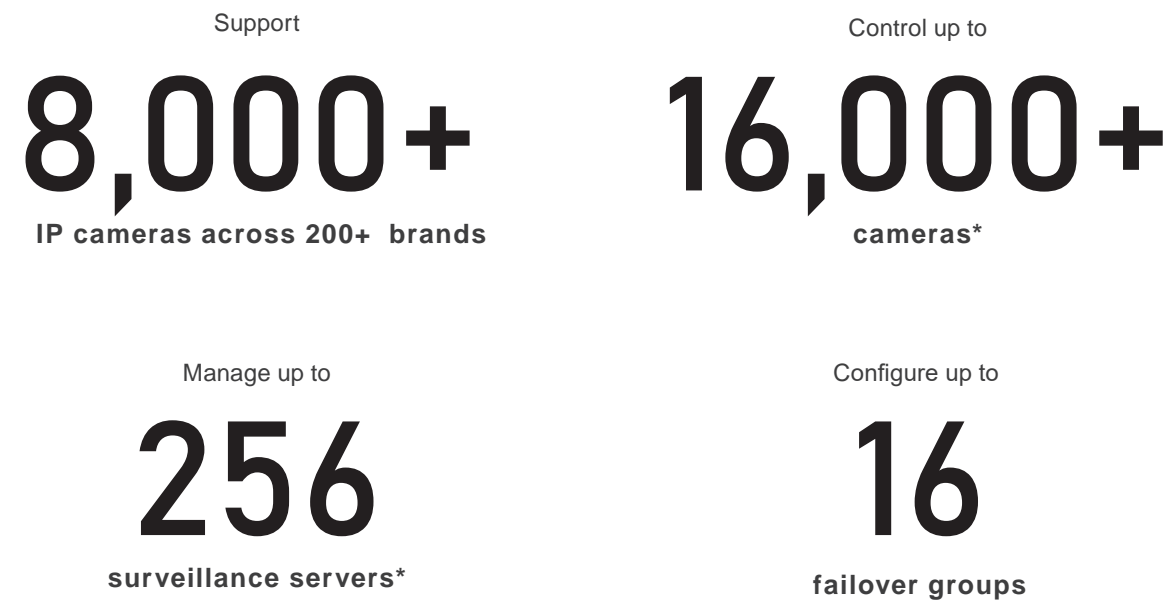
QVR Appliance

Fully allocates system resources to recording, ensuring efficient, professional surveillance.



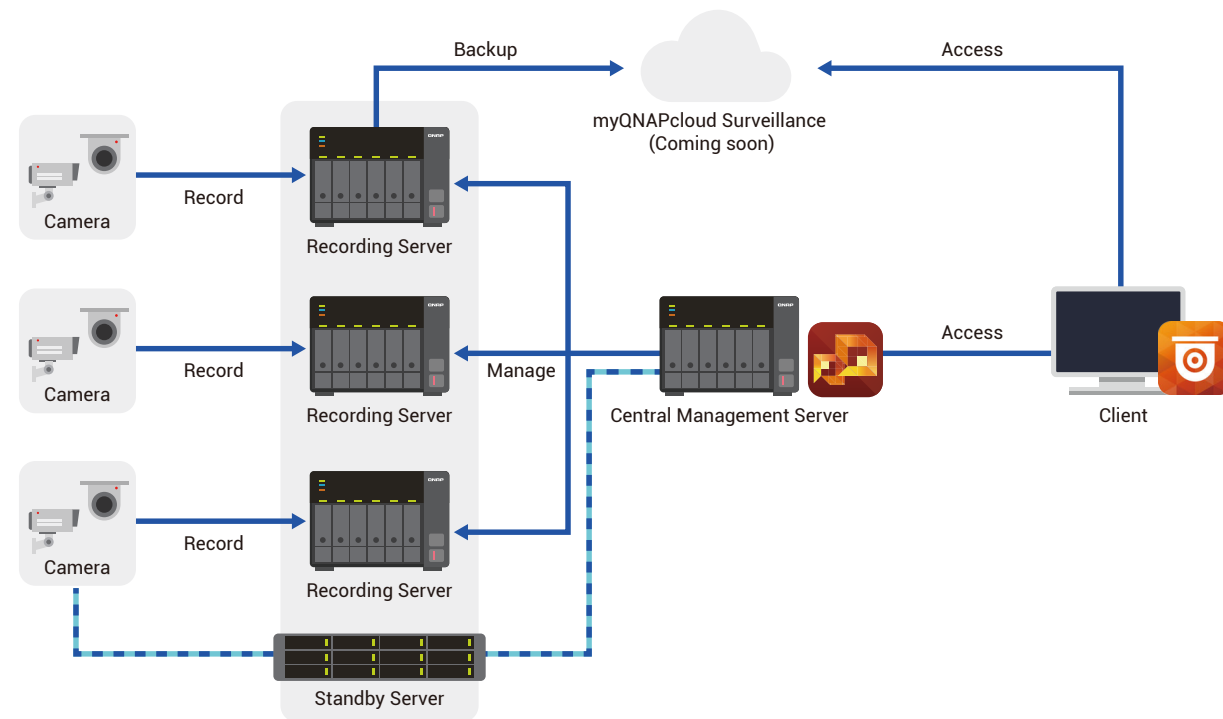
Configuration and Management

Excels in large-area surveillance, supporting distributed setups. With QVR Center, enterprises can deploy servers across locations and centrally manage surveillance for comprehensive coverage.



*The maximum supported server count varies based on NAS processor grade and installed memory.

- **Efficient Recording Storage:** Supports multi-channel, high-resolution recording, and flexible storage expansion solutions for long-term storage needs.
- **Instant Warning Notification:** Real-time event alerts for quick response, enhancing security.
- **Centralized Management:** Central Management System (CMS) enables centralized surveillance across multiple locations.



Active Recording Backup

Quickly deploy a dedicated backup server to proactively back up recording files from surveillance servers without using surveillance resources.

Ideal for Multi-Point Surveillance and Long-term Storage

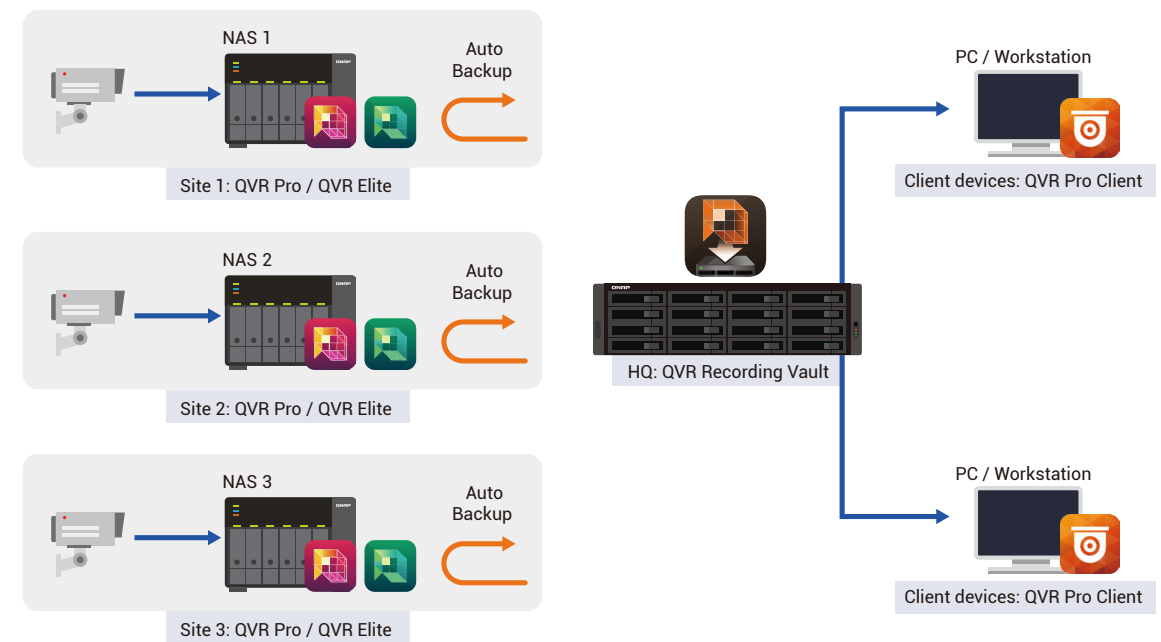
Integrates seamlessly with existing surveillance systems, prioritizing backups and supporting large-scale video storage.

Flexible Configuration of Backup Rules

Set the maximum storage duration for footage and backup capacity per camera, or choose between general and event-triggered backups.

Playback and Search Anytime

Backup files include metadata, enabling users to browse, play back, and search footage via PC or mobile apps anytime.



Smart Surveillance

Integrated AI image analysis technologies are capable of advanced event search, face recognition, and people flow analysis.

Monitor Personnel Entry and Exit to Ensure Safety

Dynamic Facial Recognition

- **Recognizes up to 5 faces at once**
Enables quick and accurate identification of multiple faces in motion.
- **Supports face mask detection**
Facial recognition identifies individuals wearing masks and maps them to personnel profiles.

Access Control Management

- **Flexible access rules**
Create access schedules to control who can enter and exit at specific times.
- **Blacklist/whitelist**
Maintain lists of key clients and unknown individuals, with automatic notifications to administrators for prompt action.



Event Search

Search large volumes of recordings in just 90 seconds per hour of video, greatly reducing review time.

Motion Search



Detect any movement within specified areas.

Missing Objects



Detect any missing object within specified areas.

Foreign Object



Detect foreign objects within specified areas.

Camera Occlusion



Detect if the camera view is blocked.

Human Search



Detect by face or clothing color within specified areas.

Vehicle Search



Search by color or vehicle type within specified areas.

Analyze Foot Traffic for Customer Insights

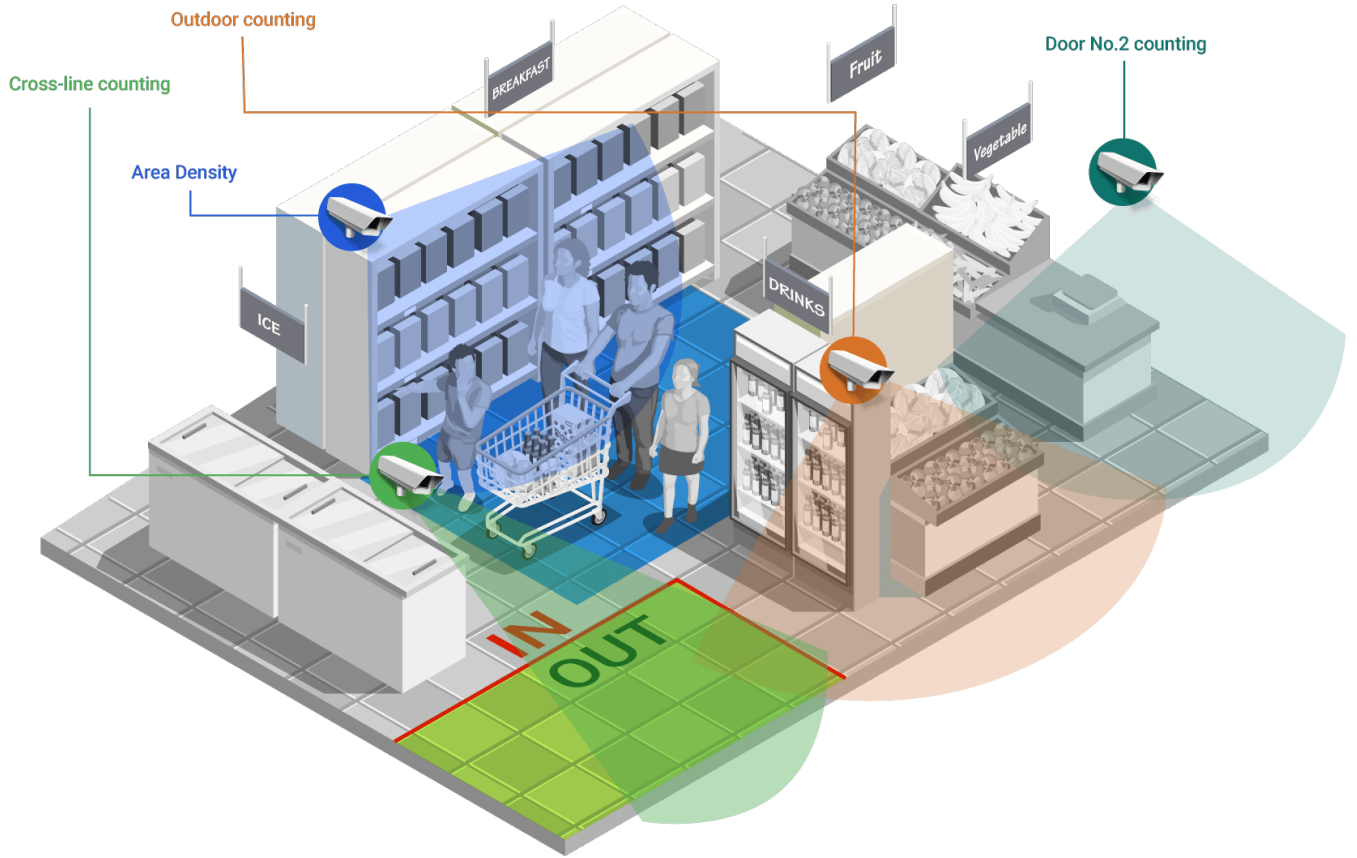
Optimize workforce, operations, and space planning by evaluating traffic patterns, peak periods, and hotspots.

Cross-line Counting

Define up to 4 boundary lines (straight or polyline) per channel to track individuals crossing them.

Area Density


Set a maximum occupancy limit to calculate area density.






Featured Surveillance Apps

QVR Pro
Buyout License




- 8 free built-in channels
- Licenses can be transferred to another NAS
- Suitable for enterprise users
- Supports failover

QVR Elite
Subscription License




- 2 free built-in channels
- Number of subscribed channels can be adjusted as needed
- Licenses can be transferred to another NAS
- Ideal for small and medium-sized businesses and home users

QVR Center
Surveillance Management Center




- Monitor camera feeds from multiple servers concurrently
- Receive event notifications from multiple locations
- View server connection statuses
- Manage granular permissions
- Seamlessly switch between failover recording servers

QVR Recording Vault
Active recording backup



- Manage space, settings, and permissions from a single interface
- Automatic backup of multi-point video files
- Retain complete backup metadata
- User-defined backup rules
- Supports file replication

QVR Pro Client
Client Monitoring



- View real-time footage from multiple devices/channels
- Supports desktop, mobile, and web
- Multi-monitor compatible
- Configure event detection and alerts

QVR Smart Search
Smart Event Search



- Quickly search recordings for specific events
- Supports various search types, including people, vehicles, and movement
- Maintains video recording performance with background analysis

QVR Face
Facial Recognition




- Supports multi-person, dynamic, and mask recognition
- Supports third-party API integration
- Customize profiles and group lists
- Configure event rules with instant notifications

QVR Human
People Flow Analysis



- Supports cross-line counting and area density analysis
- Simultaneous analysis of multiple channels
- Historical data visualization

QVR DoorAccess
Access Control Management



- Flexible access rules
- Configure access lists
- Compatible with third-party access systems
- Trigger event recordings with notifications



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