

QNAP

QuTS hero

h6.0

Powerful & Reliable
Ready for AI & Enterprise Workloads

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As data volumes grow, cyber threats intensify, and AI reshapes business operations, enterprises need a storage platform that is secure, intelligent, and high-performing. QuTS hero h6.0 offers secure, high-performance NAS storage built on ZFS, unifying resilient architecture, multi-layered security, smart performance management, and AI-powered tools into a single platform – the reliable foundation your business depends on.

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- Features may vary by model and are subject to change without notice.
- Software support varies by model; please refer to the product specifications on our website.
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2026 MSP Today Product of the Year Award
Recognizing QuTS hero's excellence in enterprise NAS storage management



Your Always-On Enterprise Storage Defense

Resilient architecture and multi-layered security — protecting what matters most

Data Security

Dual-NAS High Availability (HA)

Two QNAP NAS units form an Active-Passive HA cluster. If the primary server fails, the standby takes over immediately with zero downtime. QuTS hero h6.0 extends support to more models, with over 90% of NAS services now covered under HA protection.

- Supports JBOD expansion for flexible capacity scaling
- Cost-effective high availability for businesses of all sizes

*HA for real-time SnapSync, Q'center, third-party apps, and VJBOD are not supported in QuTS hero h6.0.

Immutable Snapshot

Available on all QuTS hero models, Immutable Snapshots lock data from modification or deletion during a protection period, ensuring data integrity and rapid recovery after a ransomware attack or accidental deletion.

- Creates a reliable last-resort recovery point
- Simple to configure and deploy across organizations of any size

KMIP Key Management

As a KMIP client, QNAP NAS integrates with your company's centralized Key Management Server (KMS) for unified encryption key control - stored remotely, applied automatically, and FIPS 140-3 compliant.

- Supports encrypted shared folders and iSCSI LUNs
- Centralized control eliminates the risks of manual key management

System Security

Ransomware Guard

Adds behavioral detection and isolation to Malware Remover, identifying anomalies, logging suspicious activities, and neutralizing threats in real time.

- Automatically quarantines suspicious processes and logs all threat activity
- Matches against QNAP's malware signature database for known ransomware

FIDO2 Passkeys

Supports USB security keys and other FIDO2 devices for password-free, phishing-resistant login — strengthening account security while simplifying IT management.

Secure IP Access

A new QuFirewall feature with granular IP-level controls and contextual access policies.

- Multi-layer verification: user authentication, device identification, and account credentials
- Auto-revocation and time-limited access to address lost devices or compromised accounts

Secure Boot

Verifies firmware integrity at every startup, blocking unverified code and ensuring every boot begins from a trusted state.

* Currently supported on TVS-AIH688ATX; additional models will follow.

Peak Performance. Smart Management. AI-Ready.

More than storage — the intelligent core of your enterprise infrastructure

Performance

Qtier hero — Intelligent Storage Tiering

QNAP's popular Qtier storage tiering technology is now supported on QuTS hero NAS. It automatically places data on the optimal storage tier based on access frequency, maximizing performance without additional hardware investment:

- [Hot Tier] PCIe / NVMe SSD → Ultra-fast access for AI inference, virtualization, and database workloads
- [Warm Tier] SAS / SATA SSD → Balanced performance and capacity for everyday workloads
- [Cold Tier] SAS / NL-SAS / SATA HDD → Cost-efficient storage for long-term data retention

Kernel-Mode SMB Daemon with Encryption

CPU kernel-mode acceleration delivers high-throughput SMB performance with SMB encryption support — fast and secure file transfers for demanding environments.

Management

ACL 2.0 (Advanced Access Control)

- Maximum ACL entries increased from 124 to 1,024 — supporting complex organizational permission structures
- Faster permission propagation and lower memory usage, even across very large shared folders

* Applied per shared folder. Once ACL 2.0 is enabled, reverting to ACL 1.0 is not possible.

Fibre Channel NPIV

Allows multiple virtual WWPNs on a single physical FC port for better multi-tenant management and improved resource efficiency.

AMIZcloud

Monitor and manage multiple NAS units from a single platform with real-time visibility into HA cluster status, throughput, and alerts. Login monitoring and file anomaly detection coming soon.

AI & Automation

Qsirsch with On-Prem LLM — RAG-Powered Search

Integrates locally deployed LLMs — including DeepSeek, Gemma, and Phi — on GPU-ready NAS models. Ask questions in plain language and get instant, file-based answers. All processing stays on-premises for complete data privacy.

* Requires a GPU-ready NAS model.

MCP Assistant — Manage Your NAS with Natural Language

Control your NAS with everyday language. Integrates seamlessly with Claude Desktop, VS Code, Telegram, and n8n for automated workflows and smarter NAS management

