

QNAP TS-855X SAN Tower Intel Atom® C5125 8 GB DDR4 0 TB QNAP QTS Black

Model: TS-855X-8G

Manufacturer: QNAP

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Product Code: 1070627

R47,609

High-performance 8-core 10GbE NAS for deploying hybrid-infrastructure storage and high-speed virtualization applications

The high-capacity TS-855X has six 3.5-inch SATA drive bays (for HDDs), two 2.5-inch SATA drive bays (for SSDs) and an 8-core processor supporting Intel® QuickAssist Technology (QAT), greatly assisting businesses in deploying a data storage and virtualization environment. The built-in 10GbE/2.5GbE high-speed connectivity helps realize fast data access, backup/restoration, file server, and virtualization applications. Running the QTS operating system as standard, the TS-855X can be switched to use the ZFS-based QuTS hero operating system based on your requirements. The TS-855X will be available and supported by QNAP for an extended period (up to 2027), ideal for businesses requiring matching NAS models deployed in long-term projects.

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Ultimate 8-core performance with up to 128 GB RAM and Intel® QuickAssist Technology

The TS-855X delivers exceptional 8-core performance for running multiple concurrent tasks. AES-NI encryption and Intel® QuickAssist Technology (QAT) are supported to offload resource-demanding compression and improving IPsec/SSL cryptography performance. The TS-855X comes with four UDIMM DDR4 slots (8 GB preinstalled) that can be upgraded to 128 GB ECC RAM for higher workloads. Combining high performance, reliability, and capacity, the TS-855X is an all-round budget-friendly storage solution for diverse applications, such as file servers, high-speed storage/backup/recovery, and virtualization.

Build a High-Speed 10GbE/2.5GbE Network Environment

Featuring two native 2.5GbE RJ45 (2.5G/1G/100M) LAN ports and a 10GBASE-T (2.5G/1G/100M) port, the TS-855X satisfies bandwidth and reliability demanding business applications including virtualization, large file transfers, high-speed backup/restoration, and real-time applications. Combine the dual 2.5GbE ports with SMB 3.0 Multichannel for up to 5 Gbps fault-tolerant connections! QNAP also offers numerous managed/unmanaged 2.5GbE/10GbE switches, assisting organizations in implementing high-speed, secure, and scalable network environments without going over budget.

M.2 PCIe slots for SSD caching and accelerated AI-powered image recognition

The TS-855X comes with two M.2 PCIe Gen 3 slots that allow for installing M.2 2280 NVMe SSDs (including SSD brands of Micron®, Seagate® and WD®) or Edge TPU (sold separately) to boost NAS performance.

SSD caching

Configure SSD caching with M.2 SSDs and obtain optimal I/O and reduced latency without occupying any 3.5-inch drive bays.

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Auto Tiering

Qtier™ technology empowers the TS-855X with auto tiering to continuously optimize storage efficiency across all installed storage devices.

Faster image recognition with Edge TPU

Coral M.2 Accelerator with Edge TPU provides an affordable solution to leverage AI acceleration for faster image recognition in your NAS applications.

Upgrade to 25GbE network with PCIe expandability

The TS-855X has two PCIe Gen 3 x4 slots that allow for installing various expansion cards to increase its application potential.

Simple Backup

Superior hardware performance with an all-in-one Backup Solution to speed up backup/recovery tasks.

PC and Mac backup

Sync your computer files to NAS with Qsync. TS-855X also supports Time Machine for Mac computers.

License-free VM backup

Back up multiple VMware® and Hyper-V™ VMs using Hyper Data Protector.

File server backup

Supports multiple protocols such as Rsync, FTP and CIFS for backing up different file servers.

SaaS Business Backup Solution

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Use Boxafe to easily back up Google™ Workspace and Microsoft 365® business account data.

Google Photos and WordPress backup

The exclusive MARS service enables backing up Google Photos and WordPress databases and files to NAS.

Multi-version snapshots mitigate ransomware threats

The TS-855X supports block-based snapshots that record the state of the system at any time. It helps protect data, which can be restored back to a specific point of time, greatly helping in mitigating the threat of ransomware.

Volume and LUN snapshots

Take snapshots in seconds and revert the entire volume/LUN back to a specific point in time to prevent loss of important data.

Instantly restore snapshots

Snapshot content can be quickly restored to a local NAS, or restored on a folder/file basis to a local/remote NAS or cloud storage. You can also conveniently view and restore snapshots from the client side.

Back up snapshots

Multiply data protection by backing up snapshot files! Replicate volume/LUN snapshots in the TS-855X to a remote NAS (Snapshot Replica) by copying only the changes made. This helps save time & bandwidth, and can be run manually or on a scheduled basis.

Reliable, high-performance storage for virtualization

The TS-855X supports block-based iSCSI LUN as a reliable, high-performance, and affordable storage solution for mainstream virtualization environments. It supports VMware® VAAI and Microsoft® ODX

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to increase performance by offloading server loading for ESXi server and Hyper-V respectively.

All-in-one solution for hosting virtual machines and containers

By running multiple virtual machines and containers on the TS-855X, you can deploy multi-tenant environments and applications to increase management efficiency and save hardware costs. Coupled with the Network & Virtual Switch app that boosts interoperability between virtual machines, containers, QNAP NAS, and other physical devices on the network, you can flexibly allocate physical and virtual network resources to simplify network deployment.

Virtualization Station

Run multiple Windows®, Linux®, UNIX®, Android™, and QuTScloud virtual machines and access them via a web browser or Virtual Network Computing (VNC). Businesses can run virtualized server applications on a single NAS without needing additional physical servers.

Container Station

Experience Docker®, LXD, and Kata Containers lightweight virtualization technologies, download apps from the built-in Docker Hub Registry®, import/export containers, and create abundant microservices.

Linux Station

Run Linux® applications (including apps from the Software Center) directly on the NAS and remotely access the Linux® desktop from a web browser. The open-source Linux® platform is also ideal for Internet of Things development.

Single Root I/O Virtualization (SR-IOV)

By installing an SR-IOV compatible PCIe SmartNIC in the TS-855X, you can allocate bandwidth resources from a physical network card directly to VMs, increasing network efficiency and reduced CPU overheads.

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QuTScloud virtual NAS

QuTScloud is a virtual appliance based on the QTS operating system. Enterprises can quickly launch QuTScloud on hypervisors including Linux® KVM, Microsoft® Hyper-V, and VMware ESXi™ to acquire advanced NAS features without requiring additional NAS hardware.

Comprehensive security and privilege settings

The TS-855X is loaded with flexible privilege settings and security measures. Besides IP blocking, QNAP Authenticator, HTTPS connection, there are more apps that help ensure optimal NAS protection against threats like malware and hackers.

myQNAPcloud secures remote access

myQNAPcloud allows convenient connection to the TS-855X through the Internet without any complex DDNS settings. To ensure your remote access service is secure, myQNAPcloud strengthens keys on SSL Certificates to 2048-bits.

Simplified privilege settings

The TS-855X supports comprehensive access right settings for shared folders, Azure Active Directory Domain Services (Azure AD DS), LDAP, and Windows ACL to help IT staff efficiently manage user accounts and access rights for multiple NAS systems.

QuFirewall protection

Supports IPv6, firewall access lists, and GeoIP filtering to restrict access based on geographical locations for higher NAS network security.

Superior security with QVPN

A virtual private network (VPN) allows secure access to network resources and services across public networks. QVPN supports creating a VPN client, using the TS-855X as a VPN server, and WireGuard® VPN service with an easy-to-use interface for setting up a secure connection.

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Security Counselor

A security portal for the TS-855X to check for weaknesses and offer recommendations for enhancing NAS security. It also integrates anti-virus and anti-malware scanning software.

Malware Remover

Regularly scan your TS-855X using the latest malware definitions. If infected files are detected, they will be immediately removed to ensure NAS data security.

The best file storage and collaboration center

The TS-855X integrates rich apps for storing, managing, synchronizing, searching, and archiving files. It supports SMB/CIFS, AFP, and NFS protocols for streamlined file sharing across Windows®, Mac®, and Linux®/UNIX®, and provides the smartest NAS solution for professionally managing your files.

File Station

Manage, access, and share all the files in the TS-855X and view snapshots files – all from your web browser. You can also easily mount remote NAS folders and cloud storage.

Qsync

Make any file uploaded to a TS-855X available to linked devices, such as computers, laptops and mobile devices. You can sync shared folders and team folders for group file sharing to enhance the flexibility of team projects and collaboration.

Qsirch

QNAP’s powerful, Google-like search tool helps you quickly find images, music, videos, documents, and emails by keywords, color, and more search conditions. It also supports Qfiling to perform one-time or automatic archival tasks based on your search criteria.

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Qfiling

Automate your file organization – all you need to do is categorize files, set a schedule, and Qfiling will do the rest. Qfiling also enables smart recycling that instantly moves filtered files to the Recycle Bin.

Build an affordable Fibre Channel SAN environment

Common Fibre Channel Storage Area Networks (SAN) devices are often costly. By installing QNAP dual-port 16Gb / 32Gb Fibre Channel expansion cards in the TS-855X, you have more budget-friendly options to add a NAS to a SAN environment. You can set a Fibre Channel Target using the iSCSI & Fibre Channel app. Moreover, the LUN Masking and Port Binding features provide an additional layer of data security.

Smart surveillance solution for 24/7 security

QVR Elite is QNAP’s subscription-based smart surveillance solution, allowing you to easily build a surveillance system with lower TCO and higher scalability. Recordings are saved as MP4 files, allowing playback on nearly every device. QVR Elite also integrates QNAP AI-based solutions to build smart facial recognition for retail and door access systems with QNAP NAS. You can arrange a dedicated, independent storage space for surveillance data on the TS-855X and enjoy simplified camera management, storage space allocation, camera live viewing and playback.

Flexible and economical storage expansion

QNAP provides easy ways to expand your storage capacity. Here are several ways to expand your TS-855X storage as needed to accommodate data and business growth.

Attach QNAP expansion enclosures

Connect expansion enclosures to the TS-855X, and manage NAS storage expansion with the user-friendly Storage & Snapshots Manager app.

Mount cloud storage or remote file servers

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Mount cloud storage or remote file servers to expand the capacity of the TS-855X while also centrally managing files on the NAS, cloud storage, and remote devices.

Migrate to a new NAS

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

Upgrade RAID capacity

Hot-swap lower-capacity drives with larger-capacity drives to expand your NAS capacity so it can grow with your business.

More productivity-boosting applications

The TS-855X provides an App Center that includes feature-rich apps to expand your NAS potential!

QuMagie

An AI-powered photo management app, supporting automated photo categorization with AI Albums, iOS® Live Photo display, and powerful search tools for the ultimate photo management and sharing solution.

QuObjects

Run a high-performance S3 compatible development environment on your TS-855X to simplify service development workflows from testing to production. You can also move cold data from the cloud to an on-premises QuObjects to save cloud storage costs.

Notification Center

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

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QmailAgent

The best email backup solution that allows you to easily backup/recover and manage multiple email accounts in their native format with strong security and data integrity.

QuFTP

The TS-855X can perform as an FTP server featuring SSL/TLS encryption, QoS bandwidth controls, and permission settings for efficiently and securely transferring large amounts of data. FTP Client is also supported.

A health check for your hard drives

Hard drives are at the heart of your NAS, and ensuring their long-term health and reliability is absolutely crucial. QNAP provides various methods and tools to help you monitor hard drive health, ensuring that you can take proactive decisions to safeguard your data and files.

S.M.A.R.T. and back block scanning

If any of the S.M.A.R.T. values are reported as abnormal, or bad blocks are detected, you can take early action and replace drives before potential data loss occurs.

DA Drive Analyzer

The DA Drive Analyzer leverages ULINK cloud-based AI to predict the expected lifespan of drives, assisting you in planning future drive replacements to protect against NAS downtime and data loss.

Seagate® IronWolf™ Health Management

When using supported IronWolf™ or IronWolf Pro™ hard drives, overall system reliability is improved by providing you with actionable prevention, intervention, and recovery options.

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Switch to QuTS hero operating system for optimal data integrity and reliability

The TS-855X also supports QuTS hero - QNAP’s ZFS-based NAS operating system. Providing end-to-end data integrity, data reduction (inline data deduplication, compression, and compaction), and much more, QuTS hero uses additional system resources to ensure an optimal environment for protecting business data.

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