

QNAP TS-435XEU NAS Rack (1U) Marvell CN9131 4 GB DDR4 0 TB QNAP QTS Black, Grey

Model: TS-435XEU-4G

Manufacturer: QNAP

EAN: 4713213519332

Product Code: 20015

R19,436

TS-435XeU

Short depth rackmount 4-bay NAS, supporting 2.5GbE/10GbE connectivity and M.2 NVMe SSD caching

The compact and feature-rich TS-435XeU provides a professional-grade quad-core NAS solution in short depth rackmount form factor. The native 10GbE SFP+ and 2.5GbE connectivity alongside M.2 NVMe SSD slots that enable cache acceleration allows businesses to efficiently tackle everyday tasks

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like file backup/restore and to boost team collaboration with higher productivity. The space-efficient short depth design makes the TS-435XeU easy to install in small media cabinets or places with a lot of cabling. Supporting abundant business applications (including file sharing and sync, snapshot protection, containerization, cloud storage gateways, and video streaming), expandable storage capacity, and install-on-demand apps, the TS-435XeU is an ideal cost-effective entry-level rackmount NAS.

Smaller footprint for bigger opportunities

Compared to a traditional 4-bay rackmount NAS, the compact TS-435XeU has a depth of only 11.49 inches (292 mm). This makes the TS-435XeU an excellent choice for smaller racks, and the unused space can be reserved for cabling or ventilation. The TS-435XeU is space-saving for flexible deployment and is especially suitable for multiple locations and applications including offices, audiovisual rooms, and security surveillance recording.

Robust quad-core 2.2 GHz processor

The TS-435XeU is powered by an OCTEON TX2™ infrastructure Marvell® CN9130 series CN9131 ARM®v8 Cortex-A72 quad-core 2.2 GHz processor that features integrated workload-optimized hardware accelerators to meet performance, power and total cost of ownership requirements. The TS-435XeU comes with 4 GB DDR4 memory that can be upgraded to 32 GB for enhanced multi-tasking capabilities, and SATA 6 Gb/s support ensures maximum performance from storage drives.

Streamlined workflows with high-speed 10GbE and 2.5GbE

The TS-435XeU has two 10GbE SFP+ ports and two 2.5GbE RJ45 ports for high-speed networking to satisfy bandwidth-demanding applications (including massive file transfer, high-speed backup/restoration, containers, and multimedia transmission) with the support of port trunking and load balancing. QNAP’s managed and unmanaged 2.5GbE/10GbE switches are a perfect match for organizations to build budget-friendly high-speed networks for productive team collaboration.

Future-proof your IT infrastructure for high-speed networks

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QNAP provides comprehensive, budget-friendly storage and networking solutions, allowing you to easily and flexibly upgrade network environments for bandwidth-hungry applications.

2.5GbE/10GbE NAS

A fast NAS with one or more 2.5GbE/10GbE LAN ports.

Upgrade computers and servers

Computers and servers with available PCIe slots can install QNAP network expansion cards that support 10G/5G/2.5G/1G/100M Multi-Gig.

Add Ethernet ports to laptops

Laptops and computers can use a QNAP USB 3.2 Gen 1 to 5GbE adapter that supports N-BASET/Multi-Gig.

A switch that supports 2.5GbE+

QNAP switches allow connecting multiple workstations and devices for high-speed collaboration.

Get performance benefits from SSD caching and Qtier Technology

To attain optimal I/O and reduce latency, you can configure SSD caching by using either 2.5-inch SSDs or the two built-in M.2 2280 SSD slots (supports high-performance NVMe PCIe Gen 3 SSDs, sold separately) in the TS-435XeU. Coupled with QNAP’s SSD-aware features, the TS-435XeU maximizes performance with high cost-effectiveness.

SSD over-provisioning
(Over-provisioning)
Add additional SSD over-provisioning to avoid write amplification and improve SSD random write speeds and endurance. You can potentially attain enterprise-grade SSD performance levels from affordable consumer-grade SSDs!

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SSD cache acceleration

Enables SSD caching for increasing IOPS performance and reducing latency for storage volumes, ideal for IOPS-demanding applications.

Qtier for auto-tiering

Qtier Technology drives auto-tiered storage with continuous data optimization across high-performance SSDs and high-capacity HDDs based on access frequency. I/O-Aware Qtier can reserve a cache-like space in the SSD tiered to handle burst I/O in real time.

Host container applications

Container Station integrates Docker®, LXD, and Kata Containers lightweight virtualization technologies. You can download apps from the built-in Docker Hub® to easily import/export container apps and manage access controls, enjoying the benefit of easy installation, transferability and high-efficiency.

A multimedia server for video streaming

The short depth TS-435XeU can be easily placed in a media cabinet. By installing streaming apps such as Plex® Media Server from the QTS App Center, you can stream media files stored on the TS-435XeU to mobiles and media streaming devices (including DLNA®, Roku®, Amazon Fire TV® and Google Chromecast™).

Comprehensive backup and disaster recovery solution

The TS-435XeU supports various apps that cover all your backup needs. Practice safe IT habits by regularly backing up files and device content, allowing them to be easily restored when needed.

PC/Laptop backup

For Windows®, install NetBak Replicator to back up your PC to QNAP NAS. In macOS®, just set up the built-in Time Machine® to secure your data.

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Remote backup for NAS

Hybrid Backup Sync makes it easy to back up data from a TS-435XeU to another QNAP NAS or remote server to fulfill your 3-2-1 backup strategy.

Cloud backup for NAS

Hybrid Backup Sync supports mainstream cloud storage for NAS data backup. For backup to object cloud storage, VJBOD Cloud is especially useful to reduce bandwidth usage and backup time.

Multi-version snapshots mitigate ransomware threats

The TS-435XeU 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-435XeU 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.

Comprehensive security and privilege settings

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The TS-435XeU is loaded with flexible privilege settings and security measures. Besides IP blocking, 2-step verification, 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-435XeU 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-435XeU 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-435XeU as a VPN server, and WireGuard® VPN service with an easy-to-use interface for setting up a secure connection.

Security Counselor

A security portal for the TS-435XeU to check for weaknesses and offer recommendations for enhancing NAS security. It also integrates anti-virus and anti-malware scanning software.

Malware Remover

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Regularly scan your TS-435XeU 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-435XeU 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-435XeU 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-435XeU 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.

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.

Smart surveillance solution for 24/7 security

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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-435XeU 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-435XeU storage as needed to accommodate data and business growth.

Connect expansion enclosures to the TS-435XeU, and manage NAS storage expansion with the user-friendly Storage & Snapshots Manager app.

Mount cloud storage or remote file servers

Mount cloud storage or remote file servers to expand the capacity of the TS-435XeU 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-435XeU provides an App Center that includes feature-rich apps to expand your NAS potential!

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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.

Notification Center

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

Qmiix

An Integration Platform as a Service (iPaaS) solution that enables you to connect apps and devices with QNAP NAS for automating daily tasks for greater productivity.

Proxy Server

By using a high-capacity TS-435XeU as a proxy server, online resources can be efficiently accessed with greater cost-savings and productivity, while network security is also enhanced at the same time.

QmailAgent

Centralize multiple email accounts and protect your data by using secondary backup, making managing and backing up emails absolutely easy.

QuFTP

The TS-435XeU 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

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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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