QNAP TS-464eU NAS Rack (1U) Intel® Celeron® N5095 8 GB DDR4 0 TB QNAP Turbo System Aluminium, Black

Model: TS-464eU-8G

Manufacturer: QNAP

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TS-464eU

1U Short depth rackmount 2.5GbE NAS, upgrades to M.2 NVMe SSD slots for greater performance

The TS-464eU is powered by Intel® Celeron® N5095/5105 quad-core processor (burst up to 2.9 GHz). The space-efficient short depth design makes it easy to install in small media cabinets or

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places with a lot of cabling. With expandable storage capacity and feature-rich apps, the TS-464eU surpasses the previous generation.

Quad-core Processor, burst up to 2.9 GHz with Memory Upgradable to 8 GB

The TS-464eU is powered by Intel® Celeron® N5095/N5105 quad-core processor (burst up to 2.9 GHz) with 4 GB DDR4 memory which is upgradable up to 16 GB. With Intel® AES-NI encryption engine, the TS-x64eU provides unmatched encryption performance with AES-256 bit encryption acceleration, boosting system performance while ensuring the safety of sensitive business data stored in the NAS.

Build a High-Speed 2.5GbE Network Environment

QNAP offers comprehensive, budget-friendly storage and networking solutions that provide an array of connectivity possibilities. Easily and flexibly upgrade your workplace or home network now to handle bandwidth-hungry applications.

A fast 2.5GbE NAS

A QNAP NAS featuring one or more 2.5GbE ports, and Port Trunking allows you to combine multiple ports for greater bandwidth potential.

Upgrade computers and servers

Servers and desktops can install PCIe-based QNAP network cards that support 10G/5G/2.5G/1G/100M Multi-Gig.

Add a 5GbE port to laptops

Laptops and upgrade-limited computers can use QNAP’s portable USB 3.2 Gen 1 to 5GbE adapter that allows you to connect to 5G/2.5G/1G/100M networks via USB.

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A switch that supports 2.5GbE+

QNAP’s 10GbE/NBASE-T switches support 10G/5G/2.5G/1G/100M and allow connecting multiple workstations and devices for high-speed collaboration in device-dense environments.

Future-proof your IT infrastructure for high-speed networks

The TS-464eU is ideally matched with QNAP’s managed and unmanaged 2.5GbE/10GbE switches to form high-speed, secure, and scalable network environments without going over budget. QNAP also provide 2.5GbE/5GbE/10GbE PCIe cards and USB 5GbE adapters for Windows®/Linux® workstations, allowing you to easily build a high-speed network environment for productive team collaboration.

Enhance productivity with multiple USB ports

With two USB 3.2 Gen 2 (10Gbps) ports and two USB 2.0 (480Mbps) ports, you can quickly backup and transfer large files to/from the TS-464eU. UPS, and other compatible USB devices can also be connected for greater functionality and application potential.

Accelerate AI–powered image recognition and caching with TPU and PCIe expansion M.2 PCIe Gen3

The TS-464eU has two M.2 PCIe Gen3 slots, enabling cache acceleration or SSD storage pools for improved performance, or Edge TPU for AI image recognition.

NVMe 2 SSDs for cache acceleration or efficient tiered storage

The TS-464eU supports SSD caching and features two M.2 slots that support M.2 PCIe NVMe SSDs with 2280 form factors (sold separately) for boosting overall NAS performance. Qtier™ technology can also be used to empower the TS-464eU with auto tiering that helps continuously optimize storage efficiency across all installed storage devices.

Accelerate AI–powered image recognition with TPU

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By leveraging a Google Edge TPU to QNAP AI Core (the AI-powered engine for image recognition), the TS-464eU can perform high-speed face and object recognition. Google Edge TPU enables QuMagie to quickly process thousands of photos with high-speed AI Image recognition and classification, and QVR Face to analyze real-time video for instant facial recognition.

Faster image identification with integrated Intel® OpenVINO™ AI engine.
With integrated Intel® OpenVINO™ AI computing resources, the TS-464eU accelerates AI image recognition performance without impacting other applications or services. QNAP AI Core primarily works with the QuMagie application.

Direct 4K HDMI output for multimedia and virtual machine display

The TS-464eU features Intel® UHD Graphics that supports dual-channel hardware decoding and real-time transcoding*. The HDMI 1.4b output supports up to 4K @30Hz, providing great benefits for applications like video production/editing or industrial design that demands high resolution and color realism as well as intensive media storage, transfer, and display. By connecting the TS-464eU to an HDMI display, you can directly watch multimedia content saved on the NAS, or use the TS-464eU as a versatile workstation by directly outputting virtual machines from Virtualization Station or Ubuntu Linux Station.

QTS 5, Fast, smooth, and easy-to-use!

The TS-464eU comes with the QTS 5 operating system as standard, providing a next-generation usage experience with an updated system kernel, optimized user interface, and advanced security features.

Brighter. Smoother. You’ll like it.
When navigating QTS 5, you will notice a finer attention to detail for a superior browsing experience. Enjoy a smoother NAS experience, comfortable visual design, and find your favorite apps quicker.

Get started with the notice board

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When performing first-time installation, the notice board guides you through the setup process. Simply follow the step-by-step instructions for a quick and easy setup.

Smooth and reactive user interface

Whether clicking buttons, switching between apps, expanding/collapsing windows – every action is much smoother. The search bar in the main menu also assists in quickly finding desired apps.

Comprehensive backup and disaster recovery solution

The TS-464eU 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.

Remote backup for NAS

Hybrid Backup Sync makes it easy to back up data from a TS-464eU to another QNAP NAS or remote server to fulfill your 3-2-1 backup strategy.

VM backup

Enjoy license-free VMware® and Hyper-V VM backup with source-side incremental backup, global deduplication, and recovery compression.

SaaS backup

Safeguard enterprise cloud data by backing up/syncing files, emails, calendars, and contacts from Google™ Workspace and Microsoft® Office 365® to the NAS.

Cloud backup for NAS

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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.

QuDedup technology

Hybrid Backup Sync eliminates redundant data at the source and then backs up the deduplicated data, helping to save time and storage costs while providing efficient multi-version backups.

Multi-version snapshots mitigate ransomware threats

The TS-464eU 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-464eU 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.

The best file storage and collaboration center

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The TS-464eU 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-464eU 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-464eU 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.

Comprehensive security and privilege settings

The TS-464eU 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.

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Simplified privilege settings

The TS-464eU 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.

Security Counselor

A security portal for the TS-464eU 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-464eU using the latest malware definitions. If infected files are detected, they will be immediately removed to ensure NAS data security.

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

By running multiple virtual machines and containers on the TS-464eU, 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

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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.

Conainer 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-464eU, you can allocate bandwidth resources from a physical network card directly to VMs, increasing network efficiency and reduced CPU overheads.

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-464eU and enjoy simplified camera management, storage space allocation, camera live viewing and playback.

Flexible and economical storage expansion

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QNAP provides easy ways to expand your storage capacity. Here are several ways to expand your TS-464eU storage as needed to accommodate data and business growth.

Attach QNAP expansion enclosures

Connect expansion enclosures to the TS-464eU, 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-464eU while also centrally managing files on the NAS, cloud storage, and remote devices.

More productivity-boosting applications

The TS-464eU provides an App Center that includes feature-rich apps to expand your NAS potential!

QuObjects

Run a high-performance S3 compatible development environment on your TS-464eU 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.

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.

QmailAgent

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

Browser Station

Remotely access protected data on the same LAN as the TS-464eU without going through complex VPN settings.

QuFTP

The TS-464eU 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.

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