

QNAP TS-873AeU-RP NAS Rack (2U) Ryzen Embedded V1500B 4 GB DDR4 0 TB QuTS hero Black

Model: TS-873AEU-RP-4G

Manufacturer: QNAP

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The compact 2U rackmount TS-873AeU-RP combines an AMD Ryzen™ V1000 series V1500B quad-core/eight-thread 2.2 GHz processor and dual-2.5GbE connectivity in one chassis. Compared to its previous generation, the TS-873AeU-RP is enhanced with two M.2 PCIe Gen3 x 1 ports for NVMe SSD cache acceleration or Edge TPU empowered AI image recognition. Cutting-edge hardware integrated with comprehensive software solutions makes the TS-873AeU-RP the preeminent choice to tackle resource-demanding applications and tasks, such as virtual machines or intensive multi-user access. The space-efficient short depth design of only 11.7 inches (297.4 mm) makes it easy to install in small media cabinets or places with a lot of cabling. The TS-873AeU-RP also features two redundant

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power supplies to ensure maximum system uptime.

2U Short depth design for up to 38% reduction in size

The 2U rackmount TS-873AeU-RP has a short depth design of only 11.7 inches (297.4 mm), making it an excellent choice for smaller racks, wall-mount AV rack cabinets, and network rack cabinets. The space saved by the short depth design can be reserved for cabling or ventilation. The TS-873AeU-RP is space-saving for flexible deployment and is especially suitable for multiple locations and applications including offices, audiovisual rooms, and security surveillance recording.

Absolute performance with AMD Ryzen™ and up to 64GB RAM

Powered by a 4-core/8-thread AMD Ryzen™ V1500B 2.2GHz processor with AES-NI encryption acceleration and up to 64GB DDR4 RAM (supports ECC RAM), the rackmount TS-873AeU-RP delivers aggressive yet power-smart performance to drive resource-demanding business applications such as VDI, R&D, private cloud, and server virtualization.

CPU

AMD Ryzen™ V1500B 4 cores/8 threads 2.2 GHz processor

Memory

4 GB DDR4 SODIMM (up to 64 GB)

Note: Supports ECC RAM (cannot be used together with non-ECC RAM)

Upgrade to 2.5GbE networking

The TS-873AeU-RP comes with two 2.5GbE RJ45 LAN ports that allow you to use existing CAT5e cables to upgrade network speeds from 1 Gigabit to 2.5 Gigabit. 5GbE speeds can also be attained by using Port Trunking.

Two M.2 PCIe Gen3 slots for SSD caching and accelerated AI-powered image recognition

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The 8-bay TS-873AeU-RP is equipped with two M.2 PCIe Gen3 x 1 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-873AeU-RP 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-873AeU-RP with auto tiering that helps continuously optimize storage efficiency across all installed storage devices.

Accelerate AI–powered image recognition with TPU

By leveraging a Google Edge TPU to QNAP AI Core (the AI-powered engine for image recognition), the TS-873AeU-RP 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.

Abundant I/O capabilities with PCIe Gen3 expansion

The TS-873AeU-RP has a PCIe Gen 3 x 8 slot that allows for installing various expansion cards for expanding application potential.

Build an affordable Fibre Channel SAN environment

Common Fibre Channel Storage Area Networks (SAN) devices are often costly. By installing QNAP dual-port 16Gb Fibre Channel expansion cards in the TS-873AeU-RP, 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.

Comprehensive backup and disaster recovery solution

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The TS-873AeU-RP 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-873AeU-RP 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

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-873AeU-RP 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.

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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.

Reliable, high-performance storage for virtualization

The TS-873AeU-RP 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 to increase performance by offloading server loading for ESXi server and Hyper-V respectively.

Optimized performance for VMware Virtualization with iSER

The iSCSI Extensions for RDMA (iSER) protocol boosts the data transfer performance of VMware® ESXi storage and reduces the CPU load of the ESXi server. iSER support can be added to the TS-873AeU-RP by installing a QNAP QXG-10G2SF-CX4 10GbE PCIe card, which uses the Mellanox® ConnectX-4 controller. iSER can provide a significant increase in performance, providing an essential tool to optimize demanding virtualization applications.

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

By running multiple virtual machines and containers on the TS-873AeU-RP, 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

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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.

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-873AeU-RP, you can allocate bandwidth resources from a physical network card directly to VMs, increasing network efficiency and reduced CPU overheads.

Comprehensive security and privilege settings

The TS-873AeU-RP 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

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myQNAPcloud allows convenient connection to the TS-873AeU-RP 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-873AeU-RP 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-873AeU-RP as a VPN server, and WireGuard® VPN service with an easy-to-use interface for setting up a secure connection.

QuWAN SD-WAN

To facilitate digital transformation, multi-site expansion and remote working, QuWAN SD-WAN helps automatically mesh multi-site VPN. It features IPsec encryption and cloud-centric management, allowing secure multi-site network including QNAP NAS and VMware ESXi platforms.

Security Counselor

A security portal for the TS-873AeU-RP 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-873AeU-RP using the latest malware definitions. If infected files are detected, they will be immediately removed to ensure NAS data security.

TeamViewer remote access

TeamViewer app enables remote management and connectivity to multiple NAS devices from Windows® PCs with an unparalleled level of safety, while increasing IT efficiency and end user productivity.

The best file storage and collaboration center

The TS-873AeU-RP 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-873AeU-RP 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-873AeU-RP 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

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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

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-873AeU-RP 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-873AeU-RP storage as needed to accommodate data and business growth.

Attach QNAP expansion enclosures

Connect expansion enclosures to the TS-873AeU-RP, 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-873AeU-RP 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

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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-873AeU-RP 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-873AeU-RP 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.

Proxy Server

By using a high-capacity TS-873AeU-RP 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.

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

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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.

Switch operating systems for optimal data integrity and reliability

The TS-873AeU-RP 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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