ComX Computers
Product Specification Sheet

TS-873AEU-RP-4G

QNap 8-bay Short Depth Rackmount Dual 2.5GbE NAS

Product Overview

QNap TS-873AEU-RP-4G 8-bay Short Depth Rackmount Dual 2.5GbE NAS, AMD Ryzen V1500B CPU, 4GB SO-DIMM DDR4 system Memory, 5GB Flash Memory, 8 x 3.5" SATA Drive bay, Hot-Swappable, 2x M2 2280, 2x 2.5 Gigabit Ethernet Port, 1x PCI-e Gen3 x8 slot, 4x USB 3.2 Gen 2 10Gbps Port (Type-A & Type-C), 2U Short Depth Rackmount Form Factor





Specifications

Overview:

TS-873AeU-RP Short Depth Rackmount dual-2.5GbE NAS. Powered by a Quad-core AMD Ryzen processor, supporting 10/25GbE or M.2 SSD caching PCIe expandability for virtual applications
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 power supplies to ensure maximum system uptime.

Features:

- Dual-2.5GbE connectivity -Features two 2.5GbE ports. Up to 5 Gbps transfer speeds can be achieved by using port trunking.
- PCIe expandability -Features one PCIe Gen3 x 8 port. Add extra functionality with PCIe cards, including 10/25GbE ports, QM2, or Fibre Channel.
- Optimized SSD performance -Features two M.2 PCIe Gen3 ports to install NVMe SSDs and empower Qtier and SSD caching technology.
- Hybrid cloud storage -Supports block-based and file-based cloud storage gateways with local caching for low-latency access to cloud data.
- Virtual machine applications -Host multiple virtual machines and containers to run a wide range of applications.
- 2U Short depth design -The rackmount NAS has a short-depth design of only 30 cm. It is perfectly suited for installation in a compact rack, or places with a lot of cabling.

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.

Note: Users can purchase the optional RAIL-B02 rail kit to deploy the TS-873AeU-RP in a 19-inch rack following the ANSI/EIA-RS-310-D standard.

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.

Virtualization Certifications Supported by TS-873AeU-RP
Check QNAP NAS with Support for Virtualization application

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
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.

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.

USB 3.2 Gen 2 (10Gbps) cards
Add extra USB ports to the TS-873AeU-RP to enhance large media file transfer experience.

: USB 3.2 Gen 2 (10Gbps) Expansion Card

25GbE/10GbE network cards
Enable lightning-fast throughput for bandwidth-demanding tasks, such as virtualization, massive data transmission, and fast backup/restoration.

QM2 M.2 SSD cards
Adds M.2 SSD NVMe caching or 10GbE/2.5GbE connectivity to the TS-873AeU-RP for optimized performance and bandwidth.

USB 3.2 Gen 2 (10Gbps) cards
Add extra USB ports to the TS-873AeU-RP to enhance large media file transfer experience.

25GbE/10GbE network cards
Enable lightning-fast throughput for bandwidth-demanding tasks, such as virtualization, massive data transmission, and fast backup/restoration.

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
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 backupFor 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. : NetBak Replicator
- Remote backup for NASHybrid 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. : Hybrid Backup Sync
- VM backupEnjoy license-free VMware and Hyper-V VM backup with source-side incremental backup, global deduplication, and recovery compression. : Hyper Data Protector
- SaaS backupSafeguard enterprise cloud data by backing up/syncing files, emails, calendars, and contacts from Google Workspace and Microsoft Office 365 to the NAS. : Boxafe Note: Minimum memory requirements are 2 GB available and 4 GB installed.
- Cloud backup for NASHybrid 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. : Hybrid Backup Sync, VJBOD Cloud

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.

- Volume and LUN snapshotsTake snapshots in seconds and revert the entire volume/LUN back to a specific point in time to prevent loss of important data.
- Instantly restore snapshotsSnapshot 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.

Note: To create an iSER connection with VMware ESXi, both the server and NAS require compatible Mellanox NICs and switches compatible with Mellanox or supporting PFC (Priority Flow Control) configuration.

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 allocate physical and virtual network resources to simplify network deployment.

- Virtualization StationRun 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. : Virtualization Station, QuTScloud on hypervisors

- Container StationExperience Docker, LXD, and Kata Containers lightweight virtualization technologies, download apps from the built-in Docker Hub Registry, import/export containers, and create abundant microservices. : Container Station
- Linux StationRun 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. : Linux Station
- 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. Note: SR-IOV is supported by specific QNAP NAS models and should work with SR-IOV compatible adapters. Click here to check compatibility.
- QuTScloud virtual NASQuTScloud 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. : QuTScloud for private cloud

Comprehensive security and privilege settings
The TS-873AeU-RP 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 accessmyQNAPcloud 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. : myQNAPcloud service
- Simplified privilege settingsThe 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 protectionSupports IPv6, firewall access lists, and GeoIP filtering to restrict access based on geographical locations for higher NAS network security. : QuFirewall
- Superior security with QVPNA 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. : QVPN
- QuWAN SD-WANTo 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. : QuWAN
- Security CounselorA 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. : Security Counselor
- Malware RemoverRegularly 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. : Malware Remover
- TeamViewer remote accessTeamViewer 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. : TeamViewer

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
- QsyncMake 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. : Qsync
- Qsirch
- Qfiling

Smart surveillance solution for 24/7 security
QVR Elite is QNAPs 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.

QVR Elite smart surveillance system

- Free embedded channels 2 IP camera channels
- Total camera channels Scalable with optional licenses
- Subscription-based Monthly US $1.99 /channel
- Video formatMP4
- Mobile app QVR Pro Client and mobile app
- Scalable storage NAS expansion units

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 enclosuresConnect 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 serversMount 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 NASInstall your NAS hard drives into a larger QNAP NAS and retain all your existing data and configurations.
- Upgrade RAID capacityHot-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!

- QuObjectsRun 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 ServerBy 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 scanningIf 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
- Seagate IronWolf Health Management

Switch to QuTS hero operating system for optimal data integrity and reliability
The TS-873AeU-RP also supports QuTS hero - QNAPs 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.

Specifications:

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Specifications	
Product Code	TS-873AEU-RP-4G
TS-873AeU-RP-4G	
CPU	AMD Ryzen Embedded V1500B 4-core/8-thread 2.2 GHz processor
CPU Architecture	64-bit x86
Floating Point Unit	Yes
Encryption Engine	Yes (AES-NI)
Hardware-accelerated Transcoding	Optional via a PCIe graphics card
System Memory	4 GB SODIMM DDR4 (1 x 4 GB)
Maximum Memory	64 GB (2 x 32 GB)
Memory Slot	2 x SODIMM DDR4
	Support ECC memory
	For dual-DIMM configuration, you must use a pair of identical DDR4 modules.
Flash Memory	5GB (Dual boot OS protection)
Drive Bay	8 x 3.5-inch SATA 6Gb/s, 3Gb/s
	The system is shipped without HDD.
Drive Compatibility	3.5-inch SATA hard disk drives
	2.5-inch SATA solid state drives
Hot-swappable	Yes
M.2 Slot	2 x M2 2280 (PCIe Gen3 x 1)
SSD Cache Acceleration Support	Yes
GPU pass-through	Yes
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2 (2.5G/1G/100M/10M)
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a network adapter
10 Gigabit Ethernet Port	Optional via a network adapter
Wake on LAN (WOL)	Yes
	Only the 2.5GbE port
Jumbo Frame	Yes
PCIe Slot	1 x PCIe Gen3 x8
	Card dimensions for PCIe slot : 210 x 68.9x 18.76 mm / 8.27 x 2.71 x 0.74 inches.
USB 3.2 Gen 2 (10Gbps) Port	4 (2 x Type A, 2 x Type C)
HDMI Output	Optional via a PCIe graphics card
Form Factor	2U Short Depth Rackmount
LED Indicators	HDD 1-8, Status, LAN, USB, Power
Buttons	Power, Reset

Dimensions (HxWxD)	89 x 482 x 297.4 mm
	Excludes ear hook and the protruding part of the Power Supply Unit.
Weight (Net)	8.15 kg
Weight (Gross)	10.92 kg
Operating Temperature	0 - 40 degreesC (32 degreesF - 104 degreesF)
Storage Temperature	-20 - 70 degreesC (-4 degreesF - 158 degreesF)
Relative Humidity	5-95% RH non-condensing, wet bulb: 27 degreesC (80.6 degreesF)
Power Supply Unit	300W PSU(x2), 100 - 240V
Power Consumption: HDD Sleep Mode	32.19 W
Power Consumption: Operating Mode, Typical	58.14 W
	Tested fully populated with WD10EFRX hard drives.
Fan	3 x 60mm, 12VDC
System Warning	Buzzer
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	2000

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TS-873AEU-RP-4G-QNap-8-bay-Short-Depth-Rackmount-Dual-2-5GbE-NAS-p-280594.php

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