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Overview

AMD Ryzen™ quad-core 2.2 GHz 2.5GbE NAS supports M.2 NVMe SSD and PCIe expansion for adding 10GbE high-speed connectivity and M.2 SSD; QTS and QuTS hero dual operating system for greater flexibility.

Quick Specs

Figure 1 shows the appearance of TS-873A-8G.



Table 1 shows the Quick Specs.

Product Code	TS-873A-8G
Dimensions (HxWxD)	7.41 × 12.96 × 11.06 inch
Operating temperature	0 - 40 °C (32°F - 104°F)
Storage Temperature	-20 - 70°C (-4°F - 158°F)
Relative Humidity	5-95% RH non-condensing, wet bulb: 27°C (80.6°F)
Power Supply Unit	250W, 100-240V AC, 50-60Hz, 3.5A
Power Consumption: HDD Sleep Mode	25.668 W
Power Consumption: Operating Mode, Typical	54.067 W Tested with drives fully populated.

Product Details

Figure 2 shows the front panel of TS-873A-8G.



Figure 3 shows the back panel of TS-873A-8G.



TS-873A-8G provides these features:

High performance AMD Ryzen™ processor

The TS-873A is powered by an AMD Ryzen™ V1000 series V1500 quad-core 2.2 GHz processor with up to 64GB RAM (ECC memory is supported*) and features USB 3.2 Gen 2 ports for speeds up to 10 Gb/s. The TS-873A also provides one USB Type-C port for supporting more devices to transfer large media files across devices, providing you with a more efficient workflow.

Transform your network with a wallet-friendly 2.5GbE switch

Upgrading your network shouldn't break the bank, and 2.5GbE connectivity provides immediately noticeable improvements compared to standard 1GbE. QNAP offers 2.5GbE switches that supports Multi-Gigabit NBASE-T™ and allows you to use existing CAT5e cables to connect multiple computers and NAS, assisting organizations in implementing high-speed, secure and scalable network environments without going over budget.

Switch operating systems for optimal data integrity and reliability

The TS-873A 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.

Note:

- QTS and QuTS hero use different file systems. You must remove all the drives from the TS-873A before switching from QTS to QuTS hero.
- QuTS hero requires a NAS with at least 8 GB memory.
- Inline Data Deduplication requires a NAS with at least 16 GB memory (at least 32 GB memory is recommended for optimal performance).
- It is recommended to create an SSD RAID with at least two SSDs for the QuTS hero system drive to attain optimal system performance. Please note that M.2 SSD hot-swapping is only supported by M.2 SSD slots on PCIe cards (such as the QM2). M.2 SSD slots that are built into the NAS do not support hot-swapping.

Obtain performance benefits from M.2 SSD caching

The TS-873A features 2 M.2 NVMe SSD slots for you to enjoy SSD caching or Qtier auto tiering Technology

Improve random data access speeds with an SSD cache

SSD caches accelerate IOPS performance and reduce latency for storage volumes. They are perfect for IOPS-demanding applications (including databases and virtualization) and can significantly improve overall workflows.

Maximize the value of SSDs with Qtier Technology

Qtier™ Technology empowers the TS-873A with auto tiering that helps continuously optimize storage efficiency by automatically moving data between M.2 SSDs, 2.5-inch SSDs, and high-capacity HDDs based on the data's access frequency. Qtier™ 2.0 features IO-awareness that empowers SSD-tiered storage with a cache-like reserved space to handle burst I/O in real time, greatly maximizing the advantages of SSDs.

Upgrade to 10GbE and abundant capability with PCIe expansion

The TS-873A features two PCIe Gen 3 x4 slots that allows for various expansion cards for expanding application potential.

Note: TS-873A uses high-profile expansion cards

Easy and Secure File Management

File Station allows direct management of files stored on the TS-873A and in the cloud. Users can easily upload files from their PC, drag/drop files between folders, rename/delete files, and configure file/folder permissions to prevent unauthorized access. Microsoft Office Online can also be used to directly view/edit Microsoft Office documents stored on the TS-873A. Confidential/sensitive data can be encrypted to add extra security.

Install a graphics card for GPU-accelerated computing

Graphics cards are optimized for graphical calculations and transformations, but require significantly more power than other hardware. The TS-873A features PCIe slots to support high-profile graphics cards that do not need power cables, including NVIDIA® GeForce® GTX1650 graphics cards to boost performance of applications such as video editing, 4K UHD transcoding, imaging processing in QTS and performance of virtual machines via GPU passthrough.

Build an affordable Fibre Channel SAN environment

Common Fibre Channel Storage Area Networks (SAN) devices are often costly. By installing a QNAP 16Gb Fibre Channel card (QXP-16G2FC 16Gb) in the TS-873A, 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.

High-speed 2.5GbE VM Backup Solution

With Hyper Data Protector, the TS-873A becomes an agentless backup tool for unlimited VMware® vSphere and Microsoft® Hyper-V VM backup. Hyper Data Protector features incremental backup, global deduplication, backup scheduling and recovery compression. With 2.5GbE connectivity, backup and restoration times are greatly reduced, providing a cost-effective solution for disaster recovery.

Compare to Similar Items

Table 2 shows the comparison of TS-873A-8G.

Module	TS-673A-8G	TS-873A-8G
Dimensions (HxWxD)	188.2 × 264.3 × 280.8 mm	7.41 × 12.96 × 11.06 inch
Operating temperature	0 - 40 °C (32°F - 104°F)	0 - 40 °C (32°F - 104°F)
Storage Temperature	-20 - 70°C (-4°F - 158°F)	-20 - 70°C (-4°F - 158°F)
Relative Humidity	5-95% RH non-condensing, wet bulb: 27°C (80.6°F)	5-95% RH non-condensing, wet bulb: 27°C (80.6°F)
Power Supply Unit	250W, 100-240V AC, 50-60Hz, 3.5A	250W, 100-240V AC, 50-60Hz, 3.5A
Power Consumption: HDD Sleep Mode	21.891 W	25.668 W
Power Consumption: Operating Mode, Typical	45.898 W Tested with drives fully populated.	54.067 W Tested with drives fully populated.

Get More Information

Do you have any question about the **TS-873A-8G**?

Contact us now via [Live Chat](#) or sales@router-switch.com.

Specification

TS-873A-8G Specification	
CPU	AMD Ryzen™ Embedded V1500B 4-core/8-thread 2.2 GHz processor
CPU Architecture	64-bit x86
Graphic Processors	Optional via a PCIe adapter
Floating Point Unit	√
Encryption Engine	√ (AES-NI)
Hardware-accelerated Transcoding	Optional via a PCIe adapter

System Memory	8 GB SO-DIMM DDR4 (1 x 8 GB)
Maximum Memory	64 GB (2 x 32 GB)
Memory Slot	2 x SO-DIMM DDR4 Support ECC memory For dual-DIMM configurations, 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
Drive Compatibility	3.5-inch SATA hard disk drives 2.5-inch SATA hard disk drives 2.5-inch SATA solid state drives
Hot-swappable	The following are not hot-swappable: M.2 SSDs, SSD cache drives, SSDs using PCIe expansion slots.
M.2 Slot	2 x M.2 2280 PCIe Gen3 x1 slots The M.2 SSD is not included as standard. M.2 SSD operations can easily generate excessive heat. It is recommended to install a heatsink (from QNAP or a third-party provider) on the M.2 SSD.
SSD Cache Acceleration Support	√
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	2
5 Gigabit Ethernet Port (5G/2.5G/1G/100M)	Optional via a PCIe adapter
10 Gigabit Ethernet Port	Optional via a PCIe adapter
Wake on LAN (WOL)	√
Jumbo Frame	√
PCIe Slot	2 Slot 1: PCIe Gen 3 x4 Slot 2: PCIe Gen 3 x4
USB 3.2 Gen 2 (10Gbps) Port	3 x Type-A USB 3.2 Gen 2 10Gbps 1 x Type-C USB 3.2 Gen 1 5Gbps
IR Sensor	√ (QNAP RM-IR004)
HDMI Output	Optional via a PCIe adapter
Form Factor	Tower
LED Indicators	Status/Power, USB, LAN, Drive 1-8, M.2 SSD 1-2
Buttons	Power, Reset, USB Auto Copy
Dimensions (HxWxD)	7.41 × 12.96 × 11.06 inch
Operating temperature	0 - 40 °C (32°F - 104°F)
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Fan	System fan: 2 x 120mm CPU fan: 1 x 60mm
Sound Level	23 db(A)

System Warning	Buzzer
Kensington Security Slot	√
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	2000

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