

TS-464-8G

QNAP TS-464-8G 4-Bay desktop NAS, 4x 3.5" bays, 2x M.2

Product Overview

QNAP TS-464-8G 4-Bay desktop NAS, Intel Celeron Quad Core N5095 2.0Ghz with Turbo Boost up to 2.90Ghz 4MB L3 Cache Processor with Intel UHD Graphics, 8GB onboard memory not expandable, 4x 3.5"/2.5" SATA 6Gb/s drive bays, 2x M.2 2280 PCIe Gen 3 x1 slots, 2x 2.5GbE ports, 1x HDMI 2.0, 1x PCIe Gen3 x2 slot, 2x USB 3.2 Gen 2 Type-A, 2x USB 2.0



Specifications

Overview:

TS-464 Bye-bye Gigabit NAS, hello 2.5GbE NAS.

TS-464 is a compact 4-bay NAS with superior performance. Supporting up to 66 TB storage and 4 TB M.2 SSD caching* at an affordable price, the TS-464 fulfills your multitasking challenges for file management, backup, collaboration, and video conversion.

Using four 3.5-inch 22 TB hard drives in RAID 5 and two 2 TB M.2 SSDs. Hard drives and SSD sold separately.

- 2.5GbE is a must! TS-464 is as fast as a single-port 10GbE NAS with up to 589 MB/s transfer speeds by setting port trunking with the two built-in 2.5GbE (2.5G/1G/100M) ports.

- Quad-core for multitasking Perform additional tasks, stream more media, and have more services running with an Intel quad-core processor optimized for multitasking.

- Smooth video conversion Built-in GPU for enhanced video conversion, allowing videos to be smoothly streamed from the NAS to mobile devices.

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- Upgrade to dual-port 10GbE Futureproof your network connection by installing a PCIe dual-port 10GbE network card that delivers up to 1,647 MB/s transfer speed.
- Faster USB transfer Two USB 3.2 Gen 2 (10Gbps) ports allow faster backup to/from USB devices.
- More M.2 NVMe SSDs If two M.2 slots aren't enough, install a QM2 PCIe expansion card for more M.2 SSD slots.

Features:

2.5GbE NAS is a must in 2024

With increasing availability on switches, motherboards, and laptops, 2023 is the year of 2.5GbE. The 2.5GbE TS-464 NAS is as fast as a single-port 10GbE NAS. By setting port trunking with the two built-in 2.5GbE (2.5G/1G/100M) ports to unleash network potential and increase fault tolerance, TS-464 delivers up to 589 MB/s transfer speeds.

New-generation quad-core processor for optimized performance

- Processor Intel Celeron N5095 quad-core processor, burst up to 2.9 GHz
- Memory Built-in 8 GB DDR4 memory
- GPU Built-in Intel UHD Graphics to speed up video processing and graphical computing
- Encryption Engine Features Intel AES-NI 256 hardware-accelerated encryption to boost system performance while securing sensitive data.

Upgrade to dual-port 10GbE with a PCIe network card

With a superior hardware design, you can install a dual-port 10GbE network card QXG-10G2TB in the TS-464. Combining 10GbE networking, quad-core processor, and M.2 SSD caching, the TS-464 unleashes its full performance potential.

Expand storage capacity up to 16 hard drives

TS-464 supports a storage capacity of up to 66 TB by installing four 3.5-inch 22 TB hard drives in RAID 5. By connecting a TL-D1600S QNAP storage expansion unit, you can add an additional twelve hard drives to the TS-464 to achieve up to 280TB storage space to meet growing storage requirements.

Accelerate AI-powered image recognition and caching with TPU and PCIe expansion

TS-464 has two M.2 PCIe Gen 3 slots for installing NVMe SSD (including Apacer, Micron, Seagate, WD, and more) or Edge TPU.

2 x M.2 2280 PCIe Gen 3 x1 slots

- Install M.2 NVMe SSDs for cache acceleration or efficient tiered storage If you have a huge number of small files requiring read/write operations, you can easily boost IOPS of TS-464 by configuring its two M.2 SSDs as a cache disk. When transmitting bigger files, you can create a storage pool with two M.2 SSDs. With Qtier automatically moving hot data to SSD and cold data to hard drives, TS-464 allows you to enjoy exceptional application performance. Learn More: SSD cache, Qtier
- Accelerate AI-powered image recognition with TPU By leveraging a Edge TPU to QNAP AI Core (the AI-powered engine for image recognition), the TS-464 can perform high-speed face and object recognition. 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. Note: Purchase from the Coral website Learn More: QuMagie, QVR Face

Abundant I/O capabilities with PCIe expansion

QNAP offers a wide range of expansion cards to add versatile functions to your NAS. The TS-464 has one PCIe Gen 3 x2 slot that supports various expansion cards for expanding application potential.

- QM2 card QM2-2P10G1TB Add a 10GbE port and two M.2 SSD slots at the same time. Learn More: QM2 expansion card
- QM2 card QM2-2P-344A Add two M.2 SSDs to create a storage pool with larger capacity caching with the built in M.2 SSDs.
- Wi-Fi 6 adapter Install a Wi-Fi 6 adapter to turn the TS-464 into a Wi-Fi NAS, allowing accessing NAS data via wireless network. Learn More: QNAP Wi-Fi 6 wireless network expansion card

One Touch Copy backup with USB 3.2 Gen 2

TS-464 provides two 10Gbps USB 3.2 Gen 2 ports for faster file transfer to/from USB 3.2 Gen 2 devices. The One Touch Copy button also allows you to back up the contents of USB devices to the TS-464 with a single button press.

Smoother mobile experience with GPU

Taking a lot of photos with your smartphone? Qfile mobile app will help you free up space by automatically backing up photos

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to the TS-464 . With Intel UHD Graphics, the TS-464 greatly speeds up converting videos to 1080p / 720p, allowing for smooth streaming to mobile devices over varying mobile network speeds.

Use your NAS like a PC

QNAP's exclusive Virtualization Station enables running multiple Windows/Linux virtual machines. By connecting a keyboard, mouse, and HDMI monitor, you can easily use the TS-464 as a PC.

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

The TS-464 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.

Simple Backup

Superior hardware performance with an all-in-one Backup Solution to speed up backup/recovery tasks.

PC and Mac backup

Sync your computer files to NAS with Qsync. TS-464 also supports Time Machine for Mac computers.

License-free VM backup

Back up multiple VMware and Hyper-V VMs using Hyper Data Protector.

File server backup

Supports multiple protocols such as Rsync, FTP and CIFS for backing up different file servers.

SaaS Business Backup Solution

Use Boxafe to easily back up Google Workspace and Microsoft 365 business account data.

Google Photos and WordPress backup

The exclusive MARS service enables backing up Google Photos and WordPress databases and files to NAS.

Back up data from one NAS to another NAS

Back up data on a local NAS to another remote NAS using Hybrid Backup Sync . You can also deduplicate your backup using QuDedup to save time and storage space.

Back up NAS data to the Cloud

Hybrid Backup Sync supports mainstream public cloud services for backing up or syncing data from NAS to Cloud.

Cloud Storage Gateway

VJBOD Cloud connects cloud object storage (Bucket) and back up data from NAS to the cloud.

Back up NAS snapshots

Use Snapshot Replica to back up NAS snapshots to another NAS and recover when needed.

Smart storage

QNAP's exclusive apps provide easy-to-use file storage and collaboration tools. Snapshots also help protect important data from Ransomware.

Volume and LUN snapshots

" Snapshots " record the complete status of your NAS system and data. Certain data and files can be reverted when needed.

Versioning

Regularly create snapshots. The more snapshots you have, the lower the risk of data loss.

Smart snapshot space management

QNAP supports smart snapshot space management to ensure there is enough storage space for new snapshots.

Qsync

Sync files between NAS and multiple computers or mobile devices.

Qsirch

Quickly find documents, media files, and emails using key words, colors, or faces.

Qfiling

Create filing rules and set schedules to automatically archive files into dedicated folders based on their category.

QuMagie

TS-464 leverages powerful AI photo management and creates smart photo albums based on people, objects, locations, and events, making photos easy to find and share.

Smart surveillance

TS-464 provides a professional surveillance NAS solution, compatible with 6,000+ IP cameras of 190+ brands and thousands of ONVIF network cameras.

All-in-one surveillance

Say goodbye to expensive and complicated PC NVR. QNAP's integrated surveillance NAS solution offers a subscription licensing solution or perpetual licensing solution for flexible deployment based on your needs.

Connect to HDMI monitor

TS-464 supports has HDMI output for direct surveillance video playback, removing the need for a dedicated workstation.

Surveillance failover

Install the high-availability QVR Guard app to automatically takeover recording tasks if a QVR Pro server fails.

Live surveillance video monitoring

Monitor live feeds and receive alert event notifications from client applications on PCs or mobiles.

Large-scale central management

Centrally control up to 256 Surveillance NAS (licenses sold separately) in different locations via QVR Center .

AI surveillance event search

Instead of manually searching through a whole day of event videos, QVR Smart Search helps you efficiently search through hundreds of hours of video recordings from hundreds of cameras to find specific events.

MP4 surveillance videos

With GPU-accelerated video conversion, surveillance videos can be converted to various file formats or resolutions for smooth playback on multiple devices.

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

By running multiple virtual machines and containers on the TS-464, 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 QuTScoud virtual machines and access them via a web browser or Virtual Network Computing (VNC). Learn More: Virtualization Station
- 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. Learn More: Container Station
- Linux StationRun Linux applications 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. Learn More: Linux Station

Enhanced cybersecurity and data protection

TS-464 is loaded with comprehensive privilege settings and security measures. Besides, there are abundant apps that help ensure optimal NAS protection against threats like malware and hackers.

- Account securitySupports 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. Use 2-Step Authentication for all user accounts to protect against brute force attacks.
- Secure remote accessmyQNAPcloud Link allows convenient remote connection to NAS through the Internet. Or you can use QVPN to set up a VPN connection to the NAS with enhanced security.
- NAS FirewallQuFirewall restricts and blocks suspicious packets sent by proxy servers and the onion routing (Tor) based on user rules. QuFirewall also dynamically updates its block list based on detected malicious packets.
- Malware ProtectionRegularly scan your TS-464 using the latest malware definitions. If infected files are detected, they are immediately removed to ensure NAS data security.

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.

Specifications:

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Specifications	
Product Code	TS-464-8G
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CPU	Intel Celeron N5095 4-core/4-thread processor, burst up to 2.9 GHz
CPU Architecture	64-bit x86
Graphic Processors	Intel UHD Graphics
Floating Point Unit	Yes
Encryption Engine	Yes (AES-NI)
Hardware-accelerated Transcoding	Yes
System Memory	8 GB RAM
Maximum Memory	8 GB
Flash Memory	4GB (Dual boot OS protection)
Drive Bay	4 x 3.5-inch SATA 6Gb/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 M.2 2280 PCIe Gen 3 x1
SSD Cache Acceleration Support	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 PCIe expansion card
10 Gigabit Ethernet Port	Optional via PCIe expansion card
Wake on LAN (WOL)	Yes
Jumbo Frame	Yes
PCIe Slot	1
	Slot 1: PCIe Gen 3 x2
	Card dimensions for PCIe slot : 190 x 68.9x 18.76 mm / 7.48 x 2.71 x 0.74 inches.
USB 2.0 port	2

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USB 3.2 Gen 2 (10Gbps) Port	2 x Type-A
IR Sensor	Yes (Optional QNAP RM-IR004 remote control)
HDMI Output	1, HDMI 2.1 (up to 4096 x 2160 @ 60Hz)
Form Factor	Tower
LED Indicators	Power/Status, LAN, USB, HDD1-4
Buttons	Power, USB copy, Reset
Dimensions (HxWxD)	165 x 170 x 226.5 mm
	Dimensions do not include foot pad (foot pad may be up to 30mm / 1.18 inches high depending on model)
Weight (Net)	2.26 kg
Weight (Gross)	3.59 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	90W adapter, 100-240V
Power Consumption: HDD Sleep Mode	21.618 W
Power Consumption: Operating Mode, Typical	40.536 W
	Tested with drives fully populated.
Fan	1 x 120mm, 12VDC
System Warning	Buzzer
Kensington Security Slot	Yes
Max. Number of Concurrent Connections (CIFS) - with Max. Memory	1500

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-464-8G-QNap-TS-464-8G-4-Bay-desktop-NAS-4x-3-5-bays-Buy-p-295742.php>

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