ComX Computers
Product Specification Sheet

TS-433-4G

QNap TS-433 4-Bay NAS with 4GB RAM, 3.5" bays

Product Overview

QNap TS-433 4-Bay NAS with 4GB RAM, ARM 4-core Cortex-A55 2.0GHz processor, 4x 3.5" / 2.5" SATA 6Gb/s bays, 4GB RAM On-Board, 1x GbE Port, 1x 2.5GbE Port, 1x USB3.2 Gen1 Port 2x USB 2.0 Ports, Hot-Swappable, TS-433-4G









Specifications

Overview:

TS-433
Build a personal private cloud & home multimedia center with a built-in NPU to boost AI-powered face recognition

Run your own personal cloud storage and enjoy easy file access, sharing, and syncing with the TS-433 . Designed with a 2.5GbE port to enhance collaboration and increase remote work productivity, the TS-433 also features rich multimedia applications and provides a complete home entertainment portal.

- Centralized multimedia managementCentrally store photos, music, and videos; easily browse, organize, and share multimedia files.
- AI-powered image recognitionWith a built-in NPU (Neural network Processing Unit) processor, the TS-433 boosts performance for high-speed face and object recognition.
- Home entertainment centerSupports ARM NEON technology that accelerates video processing for a greater entertainment

experience.

- Secure remote accessmyQNAPcloud allows you to easily access, manage, and share NAS files via the Internet.

- Snapshot protection against RansomwareProtect your files and data from accidental deletion and malware attacks by using advanced snapshot protection.

- Comprehensive security managementServes as a secure private cloud and supports user account protection, IP blocking, 2-step verification, encryption access, and more.

Features:

Minimalist design
The compact and slim TS-433 prioritizes a clean and essential design, and perfectly blends into your home or office. The design extends to the hard drives, which can be installed without needing a screwdriver.

Effective cooling fan for heat flow
The TS-433 is small in size and remains high-performance, cool, and quiet with an effective cooling fan.

64-bit Cortex-A55 quad-core 2.0 GHz CPU NAS for everyday use and collaboration
Powered by a ARM Cortex-A55 quad-core 2 GHz processor, built-in 4 GB RAM, one Gigabit LAN port, one 2.5 Gigabit LAN port, and supports four SATA 6Gb/s hard drives, the TS-433 provides dependable read/write performance for running various home and business NAS applications. The TS-433 features AES-NI 256 hardware-accelerated encryption for both full NAS volumes and shared folders, boosting system performance while securing sensitive data.

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 NASThe TS-433 features one 2.5GbE ports.

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

- Add a 5GbE port to laptopsLaptops 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.

- 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.

NPU accelerates on-device AI performance. 6x Faster face recognition.
With a built-in NPU (Neural network Processing Unit) processor, the TS-433 boosts QNAP AI Core (the AI-powered engine for image recognition) performance for high-speed face and object recognition.

QTS 5, Fast, smooth, and easy-to-use!
The TS-433 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 boardWhen 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 interfaceWhether 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.

An easy-to-use, all-in-one backup solution
The TS-433 can do many things, but at its heart is a complete backup solution to protect your files and data. By regularly backing up your files and device content, you can make data loss a thing of the past.

- Back up Windows/Mac filesFor Windows, install NetBak Replicator to back up your PC files to the TS-433 . In macOS, simply set up the built-in Time Machine to back up files to NAS. Learn More: NetBak Replicator utility

- Back up photos on mobile devicesInstall Qfile or QuMagie mobile app and enable the "auto-upload" function. Photos will be automatically uploaded to your TS-433 as soon as they are taken. Learn More: QuMagie Mobile app, Qfile mobile app
- Back up USB drives & external hard drivesSimply plug in the storage device to the front USB port of the TS-433 and press the One-Touch Copy button to back up all files to the NAS.
- Back up Google DriveHybrid Backup Sync can safely back up files and data from Google Drive to the TS-433, helping you save money on cloud storage costs.
- Back up NAS files to the cloudHybrid Backup Sync supports QNAP-hosted myQNAPcloud Storage and numerous public cloud services, allowing you to effortlessly back up or sync NAS files to cloud storage. Learn More: Hybrid Backup Sync multi-cloud backup, QNAP-hosted myQNAPcloud Storage
- Back up NAS files to remote sitesWith Hybrid Backup Sync, you can easily backup or sync files and data from the TS-433 to a remote QNAP NAS or server for multiplied data protection. Learn More: Hybrid Backup Sync remote backup
- Back up WordPress sitesEnjoy efficient WordPress backup/restore and site migration by leveraging the user-friendly Multi-Application Recovery Service (MARS), and easily batch backup WordPress files and database to the TS-433 with backup scheduling. Learn More: WordPress backup solution

Protect your data from ransomware threats with Snapshots
Snapshots are an advanced backup method and are normally reserved for high-end business NAS. QNAP provides snapshots as standard for all NAS - including the TS-433 . Snapshots work by recording the current state of the system, allowing it to be restored back this state at any time - greatly helping in mitigating the threat of ransomware.

Back up PCs to your NAS
Always remember to back up! You should routinely (or automatically) back up files and data from your computer to your TS-433.

The best storage for your high-resolution multimedia files
High-resolution RAW files eat up phone storage so quickly. Whether you are a photographer enthusiastic, YouTuber, or professional photo/video editors, use the TS-433 with high-capacity hard drives to alleviate your storage anxiety and organize files efficiently as the best storage center.

- Storage for music collectionsUse Music Station to collect and play lossless music, sing along with lyrics, and share albums, playlists or folders with friends and family. You can also put tons of music right in your pocket using the Qmusic mobile app. Learn More: Music Station, Qmusic mobile app App
- Store high-resolution videosCentrally collect GoPro diaries, videos of your family, friends, and pets in Video Station, and easily share your favorites. Take all your videos with you on your mobile devices using the Qvideo mobile app. Learn More: Video Station, Qvideo mobile App

Enhanced multimedia experience
The TS-433 supports ARM NEON technology to accelerate video processing for a greater entertainment experience. Stream media files from the TS-433 to DLNA devices and TVs using common media streaming devices including Roku, Apple TV (via Qmedia), Google Chromecast, and Amazon Fire TV.

Playback quality may vary due to factors including playback software, file formats, system usage, and available bandwidth. H.265 hardware transcoding requires installing CAYIN MediaSign Player with Plus license.

Tips for a more productive workday
With a wide range of awesome apps, you can easily access files from various devices, instantly synchronize files with friends' or colleague's devices, quickly find specific files, and automatically organize your documents and media files. You can also map the TS-433's shared folders as network drives on your computers, making accessing NAS files easy and intuitive. The TS-433 helps you save time while being more efficient and productive.

Access your NAS from anywhere
The myQNAPcloud service enables quick and easy remote access to your TS-433, allowing you to be always connected without needing to configure complex network settings. With myQNAPcloud Link you are provided with a unique domain name for your TS-433, and will automatically connect using the best method based on your network environment.

Protect your data with higher security
The TS-433 provides advanced privacy and security settings but is easy to set up and use. Besides IP blocking and HTTPS connectivity, there are more apps that help ensure an optimal level of NAS protection against threats like malware and hackers.

- Enable multi-factor authenticationIt is strongly recommended to enable secure login methods such as passwordless login and 2-Step Verification for adding an extra layer of data security. Learn More: QNAP Authenticator
- Advanced folder permissionsEasily manage folder permissions, specifying read, read/write, and deny access of individual users to each folder and subfolder.
- QuFirewall protectionSupports IPv6, firewall access lists, and GeoIP filtering to restrict access based on geographical locations for higher NAS network security. Learn More: 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-433 as a VPN server, and WireGuard VPN service with an easy-to-use interface for setting up a secure connection. Learn More: QVPN
- Security CounselorA security portal for the TS-433 to check for weaknesses and offer recommendations for enhancing NAS security. It also integrates anti-virus and anti-malware scanning software. Learn More: Security Counselor

Host container applications
If you are curious about Docker or are a hobbyist developer, Container Station on the TS-433 integrates Docker lightweight virtualization technology, allowing you to run all kinds of self-contained applications. You can download apps from the built-in Docker Hub, including popular and fully-configured applications, and deploy them with just one click. From smart homes to multimedia applications, you can explore your creativity and bring containerized applications to life.

Besides Container Station, more apps (including tools for backup/sync, content management, communications, download, and entertainment) are available from the App Center. Simply click and install on-demand to further extend the functionality of your TS-433.

Easily build a wallet-friendly home surveillance system!
With the subscription-based QVR Elite smart surveillance solution you only pay for the channel licenses you need, allowing you to affordably safeguard your property. You can arrange a dedicated, independent storage space for surveillance data on the TS-433 and enjoy simplified camera management, storage space allocation, camera live viewing and playback. Recordings are saved as MP4 files for playback on nearly every device. You can also use USB webcams as network cameras with the QUSBCam2 app, and remotely monitor your surveillance feeds at any time with the QVR Pro Client companion mobile app.

Specifications:

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Specifications	
Product Code	TS-433-4G
CPU	ARM 4-core Cortex-A55 2.0GHz processor
CPU Architecture	64-bit ARM
Graphic Processors	Mali-G52
Floating Point Unit	Yes
Encryption Engine	Yes
Hardware-accelerated Transcoding	Yes
Neural Processing Unit (NPU)	Yes

System Memory	4 GB on board (non-expandable)
	Note: Reserves some RAM for use as shared graphics memory.
Maximum Memory	4 GB on board (non-expandable)
Flash Memory	4 GB (Dual boot OS protection)
Drive Bay	4x 3.5-inch SATA 6Gb/s, 3Gb/s
Drive Compatibility	3.5-inch bays:
	3.5-inch SATA hard disk drives
	2.5-inch SATA solid state drives
Hot-swappable	Yes
Gigabit Ethernet Port (RJ45)	1
2.5 Gigabit Ethernet Port (2.5G/1G/100M)	1 (2.5G/1G/100M)
Wake on LAN (WOL)	Yes
Jumbo Frame	Yes
USB 2.0 port	2
USB 3.2 Gen 1 port	1
Form Factor	Tower
LED Indicators	System Status, LAN, USB, HDD1~4
Buttons	Power, Reset, USB Copy
Dimensions (HxWxD)	165 x 160.2 x 220.5 mm
	Dimensions do not include foot pad (foot pad may be up to 30mm / 1.18 inches high depending on model)
Weight (Net)	3.5 kg
Weight (Gross)	3.5 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	Minimum 65W adapter (12VDC), 100-240VAC
Power Consumption: HDD Sleep Mode	8.45 W
Power Consumption: Operating Mode, Typical	22.54 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	200

Product Information Online

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

Product page: https://www.comx.co.za/TS-433-4G-QNap-TS-433-4-Bay-NAS-with-4GB-RAM-3-5-bays-p-295890.php

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