TERRAMASTER F4-213 4-bay NAS Server

Model: F4-213

Manufacturer: TERRAMASTER

EAN: 6939236149143

Product Code: 1743233

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TerraMaster F4-213 NAS Server, 4-bay

The TerraMaster F4-213 NAS server is a 4-bay device designed for centralized storage, backup, and file sharing in the home or small office. It features an 8-core Rockchip RK3576 processor, 4 GB of LPDDR5 memory, a 2.5 GbE network port, and the TOS 7 operating system with built-in artificial intelligence features. It supports four SATA drives (3.5″ and 2.5″ HDDs and 2.5″ SSDs) with a total capacity of up to 128 TB, allowing it to store large collections of photos, videos, and documents. It also provides hardware-accelerated 4K video decoding, RAID support, remote file access, and multi-level data protection.

Powerful Processor and High-Speed Network Connectivity

The TerraMaster F4-213 features an 8-core Rockchip RK3576 processor manufactured using 8-nm technology, which enables efficient handling of files, applications, and multiple tasks simultaneously. 4 GB of fast LPDDR5 memory ensures smooth system and application performance, while the built-in

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NPU (AI accelerator) with 6 TOPS of performance supports the processing of AI-related tasks. The 2.5 GbE Ethernet port enables fast transfer of large files over a local network, which is useful for backups and multimedia tasks. There are also two 5 Gb/s USB-A ports, one 5 Gb/s USB-C port, and a microSD card reader.

Large Capacity and Flexible Storage Arrays

The four drive bays support 3.5-inch HDDs as well as 2.5-inch HDDs and SSDs with a SATA interface. With drives offering up to 32 TB of capacity, you can achieve up to 128 TB of raw storage space (actual usable capacity depends on the selected array type). The device supports RAID 0, 1, 5, 6, and 10, as well as TRAID and TRAID+—TerraMaster’s flexible RAID configurations that allow for online capacity expansion without the need to migrate data. Hot-swap drive replacement simplifies storage management. Additionally, you can connect drives containing existing data without formatting them and access the files stored on them.

Smart photo management and convenient file access

The TOS 7 operating system uses artificial intelligence and allows you to control server functions using natural language commands, simplifying day-to-day data management. The Terra Photos app automatically recognizes faces, animals, objects, and scenes in photos, helping you organize extensive photo collections. Analysis takes place locally, so your photos remain private and don’t have to be uploaded to an external cloud. The server allows you to back up data from Windows and Mac computers, smartphones, portable drives, and cloud services. The TNAS Mobile app provides access to files on the server and automatically syncs photos from your smartphone, while TNAS PC lets you mount the NAS as a local drive on your computer. With TerraSync, you can synchronize selected folders and restore previous versions of files from among 32 saved historical versions.

Home Media Center and Remote Access

With hardware-accelerated 4K video decoding at up to 60 frames per second, the server serves as a home library for movies, photos, and music. It supports H.265, H.264, VP9, and AV1 formats, and its compatibility with DLNA/UPnP as well as the Plex and Emby apps allows you to stream media to TVs, computers, and mobile devices. TheTNAS.onlineservice provides remote access to files from anywhere, without the need for a public IP address. Additionally, the CloudSync app enables data

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synchronization with services such as Google Drive, OneDrive, and Dropbox, helping to bridge local file storage with the cloud.

Multi-layered protection for important data

The TerraMaster F4-213 protects data on multiple levels, minimizing the risk of data loss and unauthorized access. Redundant RAID arrays ensure continued access to files even if a specified number of drives fail, depending on the configuration. File system snapshots and backups make it easy to restore data after accidental deletion or a ransomware attack—that is, malware that encrypts files. HyperLock-WORM (Write Once, Read Many) technology protects selected data from modification. Security is further enhanced by AES encryption, two-factor OTP authentication with one-time codes, a firewall, IP blocking, and protection against DoS attacks. The ability to create separate accounts and assign folder permissions allows you to securely share resources with family members or coworkers.

Compact design and versatile capabilities

The 155 × 155 × 222 mm enclosure allows you to place the server on a desk, shelf, or in a small workspace. A 120 mm speed-controlled fan cools the installed drives. The device operates quietly—the noise level is 21.9 dB(A) in disk standby mode (measured from a distance of 1 m, with four disks installed). Support for Docker and Portainer allows you to run additional applications and services, while Surveillance Manager enables you to set up a monitoring system with IP cameras. The TerraMaster F4-213 can therefore serve not only as data storage but also as a media server, a space for team collaboration, and a surveillance recorder.

Included in the package

- TerraMaster F4-213 NAS server
- Power adapter
- Power cord
- RJ-45 network cable
- Quick installation guide
- Warranty document
- Hard drive mounting screws

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Manufacturer	TerraMaster
Model	F4-213
Device type	NAS server, 4 bays
Processor	Rockchip RK3576, 8 cores (4 × Cortex-A72 + 4 × Cortex-A53)
Processor manufacturing process	8 nm
AI accelerator	NPU, 6 TOPS
RAM	4 GB LPDDR5
Number of Drive Bays	4
Supported Drives	3.5″ SATA HDDs, 2.5″ SATA HDDs, 2.5″ SATA SSDs
Maximum Drive Capacity	128 TB (4 × 32 TB, before RAID)
Supported drive configurations	Single, JBOD, RAID 0, 1, 5, 6, 10, TRAID, TRAID+
Hot-swappable drives	Yes (hot-swap)
Network port	1 × RJ-45 2.5 GbE (100/1000/2500 Mb/s)
USB ports	2 × USB-A 5 Gb/s, 1 × USB-C 5 Gb/s
Additional connectors	HDMI (for displaying system codes and commands; does not support video playback), UHS-I microSD card reader
Video decoding	H.265, H.264, VP9, AV1, up to 4K/60 frames per second
Operating system	TerraMaster TOS 7
Internal drive file systems	Btrfs, EXT4
External drive file systems	EXT3, EXT4, NTFS, FAT32, HFS+, Btrfs
File sharing protocols	SMB, AFP, NFS, FTP, SFTP, WebDAV
Supported client systems	Windows, macOS, Linux
Supported mobile operating systems	Android 10.0 or later, iOS 14.0 or later

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Security	AES encryption, OTP, PAM, firewall, IP blocking, DoS protection, snapshots, HyperLock-WORM
User account support	up to 512 local accounts
Container support	Docker, Docker Compose, Portainer
Fan	1 × 120 × 120 × 25 mm
Fan modes	Smart, high, medium, and low speed
Noise level	21.9 dB(A) in disk standby mode
Power consumption	30 W during read/write operations, 7.5 W during disk hibernation (for a test configuration with four 4 TB Seagate drives)
Power Supply	72 W
Power Input	100–240 V AC, 50/60 Hz
Dimensions	155 × 155 × 222 mm
Weight	1.33 kg
Operating Temperature	0–40°C

GPSR Link: https://psr-assets.innpro.pl/it_accessories/sg_it_accessories_network_devices.pdf, PPWR: https://ppwr.innpro.pl/en/terramaster, Gross weight: 3200, Net weight: 2100, Box length: 25,00, Box width: 21,60, Box height: 25,00, Last delivery: 17.11.2026

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