

TerraMaster F2-423

2-Bay High Performance NAS

Datasheet



The 2-Bay F2-423 is suitable for SMB users who need high-performance storage solutions. High performance means that users can easily handle high-load assignments, while multiple business-level backup solutions guarantee user' data safety and prevent the potential risk of data loss.



Excellent Performance

This is a high-performance storage solution for iSCSI virtual storage and database service for SMB users. It uses an Intel Celeron N5105/5095 quad-core processor with 2.0 GHz and maximum turbo to 2.9 GHz. It is integrated with a GPU graphics card, AES NI hardware encryption, and equipped with two 2.5 GbE interfaces and 4 GB DDR4 dual-channel memory (expandable up to 32 GB).

The Ideal Choice for SMB' Data Management

The F2-423 can deal with high-load workflow and a high level of concurrent user access. Rapid document storage and management are facilitated by high-speed document retrieval, efficient transmission performance, and rich TerraMaster disaster backup and recovery solutions.

Higher Transmission Speed

The F2-423 is configured with two 2.5 GbE interfaces, supporting 2.5 GbE high-speed network bandwidth. The transmission speed can reach 283 MB/s (Seagate IronWolf 18TB x 4, RAID 0) . Link Aggregation provides a network bandwidth up to 5 Gb, thus providing a cost-effective solution for multi-user and high-concurrent file access.

High Speed Network and Flexible Extension

The F2-423 is configured with two 2.5 GbE interfaces. Link Aggregation provides a network bandwidth up to 5 Gb. The built-in M.2 NVMe slot realizes SSD cache acceleration and significantly increases the storage efficiency of the disk array. To meet performance enhancement expansion requirements, the memory can be extended to as large as 32 GB.

Small-sized Compact Design

Structural optimization has remarkably reduced the space occupied by the F2-423, thus realizing product miniaturization. By adopting both vertical and horizontal designs, the F2-423 better satisfies the usage requirements of small-sized business users with limited space.

Very Quiet

It is essential that a desktop NAS is very quiet. The F2-423 has a high-quality silent fan and optimized internal structure, which increases the equipment's internal wind pressure and



reduces the working temperature of the hard disk. This remarkably reduces resonance between the equipment components and the hard disk, so even in a full-load working environment, the F2-423 maintains a low-noise performance.

Flexible Configuration and Management of Disk Arrays

The F2-423 supports rich RAID types, which can be selected based on your data access and data protection level requirements. Hot Spare can be configured for the disk array and any of the following array types can be chosen according to the number of hard disks: Single, RAID 0, 1, 5, 6, 10. To reduce the risk of material loss and ensure important materials are kept, the F2-423 supports online capacity expansion and online migration of RAID array.

Across-Platform File Management and Sharing

Supporting most of file services (SMB, AFP, SFTP/FTP, iSCSI, NFS, and WebDAV), the F2-423 can fully satisfy file management requirements in different network environments. TerraMaster's web file management tool, File Manager, is easily operated with visualized interfaces, while its classification and search functions can make it simple to organize and share data.

Enhance the Safety of your Data with a Superior File System

Superior storage technology and optimized snapshot technology are the cornerstones of the Btrfs file system, which is what TerraMaster's F2-423 relies on for advanced data protection, the prevention of data corruption, and minimal maintenance expenses. This file system promotes high data integrity while promoting flexibility and efficiency in the areas of data protection and recovery. The Btrfs file system features data recovery capabilities at the file or folder level for faster data recovery and greater flexibility for businesses.

Virtualization Storage Solutions

TerraMaster iSCSI supports VMware vSphere and Windows Hyper-V virtualization storage solutions. The simple management interface enhances working efficiency and optimizes calculation efficiency, as well as facilitating the shunt of storage operations.



Multiple Backup Solutions

Integrated with multiple backup applications, the F2-423 uses visual user interfaces and reliable storage technologies to protect your precious data.

Centralized Backup: Backups for virtual machines, employees' PCs, and file servers are managed centrally, facilitating the rapid restoration of data after an incident.

Duple Backup: To provide several offsite backup versions, Duple Backup offers advanced data protection by backing up files to another remote TNAS, file server, or cloud drive.

Snapshot: Take continuous snapshots of your folders or iSCSI LUNs by enabling snapshot schedule. When a disaster occurs, it can roll back to points-in-time and restore to the last backup, ensuring your data is well protected.

CloudSync: Back up your data to a mainstream cloud drive to provide remote backup versions, making your data more secure.

Striving to Satisfy Small and Medium-sized Businesses

Business users can easily build file storage servers, mail servers, web servers, FTP servers, MySQL databases, CRM systems, Node.js, and Java virtual machines, as well as a host of other commercial applications.



Panel Illustration:



SN	Item	Item
1	Hard drive tray	3.5" SATA HDD; 2.5" SATA HDD; 2.5" SATA SSD
	Hard drive indicator	Red: Hard drive failure
2		Green: Normal operation status
2		Green (flickering): Reading/writing data
		Off: No hard drive detected
3	Network indicator	Green: Network connection is normal
		Off: Network disconnected
4	Power switch/Power	On: Power on
	indicator	Off: Power off

Rear Cover Illustration:

SN	Item	Description
4	Power interface	DC 12V input
6	Network interface	2.5G/1000M/100M bps network interface
7	USB 3.1 host (×2)	Use to connect USB storage device or USB wireless adaptor
8	HDMI interface	For displaying the software codes or commands, not for video playing.



Specifications:

	Hardware	
Processor		
Processor Model	Intel® Celeron® N5105/N5095	
Processor Architecture	X.86 64-bit	
Processor Frequency	Quad Core 2.0 GHz (Max burst up to 2.9 GHz)	
Hardware Encryption Engine	V	
Hardware Transcoding Engine	H.265 (HEVC), MPEG-4 Part 2, MPEG-2, VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 60	
Memory		
System Memory	4GB	
Pre-installed Memory module	1	
Total Memory Slot Number	2	
Maximum Supported Memory	32 GB (16 GB + 16 GB)	
Note	TerraMaster reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility and stability have been strictly verified with the same benchmark to ensure identical performance.	
Storage		
Disk Slot Number	2	
	3.5" SATA HDD	
Compatible Drive types	2.5" SATA HDD	
	2.5" SATA SSD	
Maximum Internal Raw Storage Capacity	40TB (20TB x 2) (Capacity may vary by RAID types)	
Max Single Volume	108TB	
Drive Hot Swap	V	
Note	 . Hard drive vendors will release their latest models of hard drives, and Maximum internal raw storage capacity may be adjusted accordingly. . The maximum single volume size is not directly related to the maximum raw capacity. 	
File System		
Internal Drive	EXT4,BTRFS	
External Drive	EXT3, EXT4, NTFS, FAT32, HFS+	
External Ports		
RJ-45 2.5GbE Network Jack	2	
	•	



USB 3.1 Port	2 (Type-A USB 3.1 Gen2)
HDMI	1
M.2 NVMe Slot	2 (PCle3.0 x1)
Appearance	
Size	227 x 119 x 133 mm
Packaging Size	258 x 220 x 170 mm
Weight	Net Weight: 1.5 Kg Gross Weight: 2.4 Kg
Others	
System Fan	80 mm x 80 mm x25mm 1 PCS
Fan Mode	Smart, High speed, Middle speed, Low speed
Noise Level	26.4 dB(A) (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in idle state)
Power Supply	40 W
AC Input Voltage	100V - 240V AC
Current Frequency	50/60 Hz, single frequency
Power Consumption	22.1 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state) 11.4 W (Fully loaded Seagate 4TB ST4000VN008 hard
	drive(s) in hibernation)
Limited warranty	2 years
Certificate	FCC, CE, CCC, KC
Environment	RoHS, WEEE
Temperature	
Working Temperature	5°C ~ 40°C (40°F ~ 104°F)
Storage Temperature	-20°C ~ 60°C (-5°F ~ 140°F)
Relative Humidity	5% ~ 95% RH
Package Contents	
	Host unit (x1)
	Power cord (x1)
	Power Adapter(x1)
	RJ-45 network cable (x1)
	Quick Installation Guide (x1)
	Limited Warranty Note(x1)
	Screws(a few)



Supported Client OS Windows OS, Mac OS, Linux OS Supported Web Browsers Google Chrome 97.0.xxxx, Mozilla Firefox 9.3,Apple Safari 12.1; Microsoft Edge 99.0.xx or later version. Supported mobile OS ID 12.0, Android 8.0 or later version. Storage Management Supported RAID Types Single, JBOD, RAID 0, RAID 1,RAIDS,RAID 6,RAID10 Maximum Internal Volume Number 256 Maximum ISCSI Target 128 Maximum ISCSI Target 128 Maximum ISCSI LUN 128 Volume Expansion with Larger HDDs RAID 1,RAIDS,RAID 6,RAID10 Volume Expansion by Adding a HDD / RAID Migration V SSD Cache V Hot Spare V SSD TRIM V Hard Drive S.M.A.R.T. V Seagate IHM V NVRAM write cache (BBU-protected) / WORM write Cache (BBU-protected) / V WORM(Write Once Read Many) / Shared Folder Snapshot V LUN Snapshot V ILUN Snapshot J Storage QOS For Shared Folder / File Services File Protocol SAMBA/AFP/FTP Connections V Maximum Concurrent SAMBA/AFP/FTP Connections V Windows Access Control List (ACL) Integration V Account & Shared Folder Maximum local user's account number S12 Maximum Iscal group number S12 Maximum shared folders number S12 Maximum shared folders suprice tasks Backup Rsync Server V		TOS Features	
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Instant Alert via email, SMS, Beep V	AES Volume and Shared Folder Encryption	V			
	Importable SSL certificate	V			
Power Management	Instant Alert via email, SMS, Beep	V			



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