




































# 2024 TERRAMASTER PRODUCT SOLUTION GUIDE



# Product Lineup

Users		1U-4bay	2U-8bay	2U-8bay		
Enterprise NAS	4 - 8 bay Enterprise NAS	 U4-423	 U8-423	 U8-450		
		2U-8bay	2U-8bay	2U-12bay	3U-16bay	4U-24bay
		 U8-522-9400	 U8-722-2224	 U12-722-2224	 U16-722-2224	 U24-722-2224
Users		6bay	9bay	12bay	9bay	12bay
SMB NAS	6 - 12bay SMB NAS	 T6-423	 T9-423	 T12-423	 T9-450	 T12-450
Users		2bay	4bay	4bay	6bay	6bay
HOME/SOHO NAS	2 - 6 bay HOME/SOHO NAS	 F2-424	 F4-424	 F4-424 Pro	 F6-424	 F6-424 Pro
		2bay	4bay	4bay	2bay	4bay
	2 - 4 bay HOME/SOHO NAS	 F2-212	 F4-212(1G)	 F4-212(2G)	 F2-423	 F4-423
Users		2bay	5bay	8bay	16bay	
DAS FOR VIDEO EDITING	2 - 16 bay Thunderbolt3 DAS	 TD2-Thunderbolt3	 D5-Thunderbolt3	 D8-332	 D16-Thunderbolt3	
Users		2bay	4bay	6bay	5bay-RAID	
HOME/SOHO DAS	2 - 6 bay USB3.2 DAS	 D2-320	 D4-320	 D6-320	 D5-300	
		5bay	8bay			
	5 - 8 bay USB Hybrid DAS	 D5 Hybrid	 D8 Hybrid			

## F4-424 Pro

### The Most Powerful 4-bay NAS to Date

intel Core i3

8-CORE

8-THREAD

GPU

32

Execution Units

RAM

32GB

DDR5

2.5GbE

Port x2

M.2

Interface x2

200%

Performance Boost



## NAS Solution Guide

- Complete product line includes 2, 4, 5, 6, 9, and 12-bay tower NAS and 4, 8, 12, 16, and 24-bay rack NAS options
- Multi-functional network storage and application servers designed for small and medium-sized enterprises and professional users
- NAS meet multiple enterprise requirements with their powerful features that support a range of file storage and sharing, data backup and disaster recovery, and authority management protocols
- Secure, reliable, and scalable advanced TRAIID technology and file system encryption technology offers additional protection
- Cost-effective and high-speed 1G, 2.5G, and 10G network storage solutions provide full support for iSCSI virtualization technology



# About TNAS

TerraMaster's TNAS is a powerful network attached storage(NAS)server that offers a series of storage space solutions that are both easy to manage and available at low cost. The TNAS also supports a variety of application services that can make enterprises' data storage management centers both more efficient and more secure.

## Multi-functional Server

TNAS allows the sharing of data and files across different operating systems, including Windows, Mac, Linux, and Unix, as well as a variety of common server types such as file servers, FTP servers, virtual servers, web servers, and multimedia servers. Its advanced functions, including TRAIID, Snapshot, Hyper Cache, WORM, WebDAV, remote wake-up, switch timing management, S.M.A.R.T detection for hard disks, detailed system log, and automatic network IP online filtering, as well as its compatibility with and use of IPV6 and IPv4, allow the TNAS to play an indispensable role in supporting commercial operations rather than simply acting as a data storage device.

# World-leading NAS Brand

## Globally Recognized

According to round-up of reports featuring NAS comparisons, professional media in the NAS industry, and major global media, TerraMaster has been the fastest growing NAS brand in the past three years. It is now well recognized by global users, and, as such, has become a leader in terms of network storage systems in both the small and medium-sized enterprises and consumer markets.



# Efficient Data Management Solutions

## Eight Major Application Scenarios for TerraMaster NAS



Data Backup and Share



Professional Storage Management



File Sync Across All Devices



Business Continuity Data Security



iSCSI & Virtualization



Multi-Function Server



Multimedia Center



Surveillance





## Network Storage

TerraMaster NAS provides efficient and simplified data management solutions, enabling the efficient storage and management of, and access to, ever-increasing quantities of data thanks to the intuitive TerraMaster operating system (TOS).

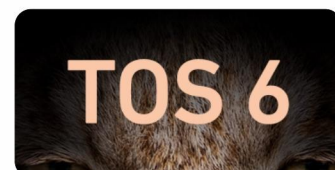


## Enterprise File Server

Enterprises need to facilitate collaboration and the sharing of files across teams or locations, as well as considering data management and privacy issues. TerraMaster readily combines the flexibility of the cloud with the control of local file storage.

### What's TOS 6 ?

TOS 6 is the latest iteration of the TNAS device operating system. TOS is a web-based operating system specially designed for TerraMaster NAS that adopts a desktop, multi-functional user interface to provide reliable and seamless file sharing, data backup, and integrated virtualization solutions. In addition, TOS provides enterprise users with a variety of professional applications and tools that general users can operate easily.



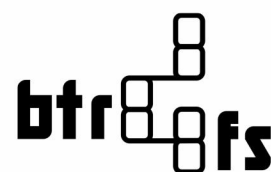
### TerraMaster RAID(TRAID)

TRAID is an elastic disk array management tool developed by TerraMaster featuring functions that include the automatic combination of disk space, redundancy protection against hard disk failures, and automatic expansion. TRAID is an automated disk array (RAID) management system that does not require manual configuration by users, and, as compared with the traditional RAID configurations, the capacity can be deployed more flexibly. Even users who know nothing about the various RAID types can easily execute RAID management, expanding and maximizing the space available.



### Btrfs File System

Btrfs is an advanced file system designed to allow both enterprises and users to resolve common problems found in storage systems, such as system fault tolerance and data protection. Btrfs features snapshot technology, data mirroring and file self-healing to ensure data integrity and prevent data corruption.



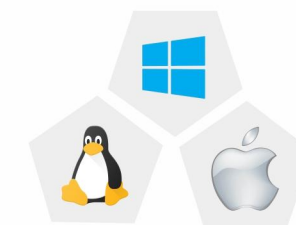
### HYPER-LOCK WORM File System

The Hyper-Lock WORM file system is a storage system with WORM characteristics. Data can be written only once within a user-defined protection period, and it cannot then be deleted or modified. This process can effectively protect your data from malicious damage, deletion or tampering, for up to 70 years, which is crucial for the financial, judicial, medical and scientific research sectors, and useful for many other business users.



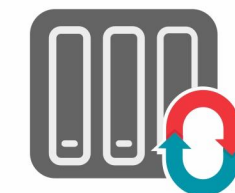
### Cross-platform Data Sharing

Windows, Mac, and Linux users can easily and quickly access files on the TerraMaster NAS in the LAN via common file sharing protocols such as SMB, AFP, and NFS. making Files can therefore be shared more simply, conveniently, and efficiently.



### TerraSync

TerraSync aggregates all files in a single portal, enabling file management, access across platforms, and seamless synchronization to the chosen computer. TerraSync Server is the lead application of the TerraSync cloud disk service, which is used to configure synchronization folders and synchronization policies, as well as to manage file versions and permissions. This application runs on the TNAS server to synchronize files between the TNAS and different devices.



### Integration into Your IT Environment

TerraSync supports adding users and groups on a Windows AD or LDAP server to the NAS, saving IT personnel time in establishing and managing accounts. Users can then directly access the newly added NAS using their original accounts and passwords.



### File Synchronization and Sharing across Offices

Corporate teams scattered around the world often need to access the same files. TerraMaster's cross-office file synchronization and sharing solution help seamlessly synchronize data from various sites, significantly improving the efficiency of collaborative work among team members.







## Multiple Data Backup Protection Applications

TerraMaster NAS is a storage device with various backup functions, through which relevant applications can be downloaded and installed from the APP center in the TOS. This allows both enterprise and individual users to quickly and easily create a safe and reliable backup environment.



## Complete Data Backup and Disaster Recovery Solutions

Enterprises require intelligent and comprehensive backup strategies to effectively prevent or mitigate threats to ensure uninterrupted service. A modern and integrated backup solution is also needed to centralize the management of back up tasks in physical and virtual environments, as well as in the cloud. In terms of a data protection strategy, the application of the 3-2-1 backup rule can help minimize the risk of data loss.

### Centralized Backup

For enterprises above medium size, a centralized and proactive backup solution is required to improve management efficiency for multiple users, multiple PCs, and multiple types of devices in service. For enterprises, Centralized Backup supports multiple types of device backup and recovery, allowing backups to be made of the data from dozens or even hundreds of PCs, servers, or virtual machines with only one TNAS.



### Duple Backup

With its powerful backup and recovery functions, Duple Backup is a disaster recovery tool that is designed to enhance the data security of TNAS devices. In order to prevent data loss due to a hardware or system failure of TNAS device, important folders or iSCSI LUNs in TNAS can be backed up to multiple destinations, including a remote TNAS device, file server, or cloud disk, using the intuitive user menu. It also supports multiple backup strategies such as incremental backup and multi-version backup. This simple and intuitive backup and recovery thus helps realize rapid recovery of the lost data in case of device failure.



### CloudSync

CloudSync is a cloud disk synchronization application used to achieve rapid and safe data synchronization between the TNAS and the cloud disk, thus offering a very practical and efficient one-stop cloud disk disaster recovery solution. This also integrates a variety of mainstream cloud disk synchronization functions, including Google Drive, OneDrive, Amazon S3, Dropbox, Baidu, and Alibaba Cloud, which means that only one application is needed to meet a range of different demands for cloud disk synchronization and management. File-level backup allows easy restoration of files without additional time and cost, facilitating restoration of the entire cloud space.



### File System Snapshot

The TerraMaster File System Snapshot (TFSS) is a disaster recovery tool developed based on the BTRFS file system. It adopts advanced data snapshot technology to snapshot the entire file system of the TNAS device, allowing restoration of the files in the folder to the saved state at any point. In case of any data loss or corruption, TFSS can be used to view the previous version of a file, allowing restoration to avoid data loss, whether due to operation errors or ransomware attacks.



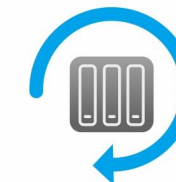
### What is the 3-2-1 data backup strategy?

The recommended data protection strategy is based on the 3-2-1 backup rule. This means there should be at least three copies of data, stored on two different media, and at least one of these should be stored in a different location. This rule helps minimize the potential risk of threat from accidental data loss caused by hard disk failure, natural disaster, or blackmail attacks.



### Backup of PCs, Servers, and Virtual Machines to NAS

Home computers, corporate servers, and virtual machines are all protected with TerraMaster NAS. TerraMaster NAS can also safely protect enterprises' computers, servers and virtual machines, and centralize the management of all backup tasks to help avoid complex management problems arising when different backup applications are used.



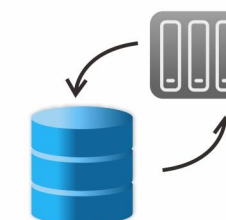
### Backup from Cloud Storage to Local NAS

TerraMaster NAS can handle all backup tasks, from personal files to enterprise SaaS. It can also safely protect public cloud data hosted by network disks and the SaaS service applications in an enterprise.



### Backup of NAS to Other Devices

This feature offers an effective disaster recovery or anti-ransoming solution by allowing a back up of the data in the TerraMaster NAS to be made to a remote site or other media device. Backing up the NAS to a different location or even another local device adds another layer of protection, helping to mitigate damage from ransomware attacks or other sudden disaster events.







## Safe Data Access Protection Mechanisms

Hackers and ransomware merchants are now rampant around the world, potentially putting customers' valuable digital assets under unprecedented threat. TerraMaster has thus developed a range of security measures to guarantee the security of users' storage data, including a unique security isolation mode that offers users a safe and reliable operation environment isolated from external risks, as well as protecting digital assets from infringement.

### Online IP Filtering and Blocking Mechanism

The server administrator may permit, deny, or automatically block any specific IP address or network segment that attempts to connect to the NAS through SSH/Telnet/HTTP(S)/FTP/Samba/AFP.



### SSL Security Mechanism (HTTPS)

Safe access and configuration can be achieved through a Web browser. The administrator can also access TNAS safely by uploading their security credentials, or private keys may be issued by trusted providers via SSL.



### Virus Protection

The built-in CalmAV virus protection program can isolate or remove files infected by viruses, preventing the affected computer online from accessing the NAS to limit infection. Before scanning, users can set the destination folder and time to scan before selecting the file type, size, or compression.



### System Isolation by One-click

TerraMaster's unique security isolation mode can completely isolate the TNAS device from the WAN by implementing network isolation, digital signatures, and file format restrictions, thus providing a more secure operating environment and effectively resisting viruses and ransomware.



## iSCSI and Virtualization Solutions

NAS is widely used as a scalable storage device for virtualization.

### iSCSI Manager

TerraMaster iSCSI Manager can create multiple iSCSI targets and LUNs on the TNAS, allowing personalized configuration in terms of capacity, permissions and connections. These are generated through the graphical interface to meet user requirements for storage space across a range of different virtual environments.



### Designed for Virtual Environments

TNAS solutions support applications in VMware and Windows server edition / windows professional edition environments. Compared with the high cost of optical SAN, they also have a relatively low build costs, as well as being fully applicable to VMware virtual environments and Windows 2008 fault-tolerant servers, offering excellent efficient performance.



### Virtual Storage

The built-in LUN Snapshot can take up to 256 instant LUN snapshots, all with data protection, and replicate these to a remote TerraMaster NAS once every 15 minutes, thus ensuring consistency of both data and state on virtual machines. This helps prevent data loss, and assists the enterprise in meeting its preset recovery point goals (Rpos).



### Optimized SSD Performance

TerraMaster Hyper Cache is a unique SSD cache acceleration tool developed by TerraMaster that, unlike traditional SSD Caches, provides up to three cache modes to suit different usage requirements. It also creates disk arrays for SSD to improve cache performance and security. TerraMaster Hyper Cache thus offers a faster and more secure SSD cache accelerator, allowing the TNAS to offer more efficient and reliable hybrid storage.





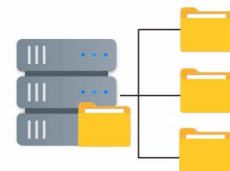


## Multi-Function Server

TNAS also supports a variety of server types for enterprises and end users:

### File server

Files can be shared across different operating systems, including Windows, Mac, Linux, and UNIX. WebDAV allows HTTP/HTTPS to connect remotely to the shared folder in the NAS, thus offering greater convenience when accessing the file system externally.



### Backup server

TNAS supports Apple Time Machine, as well as remote backups to the Rsync server and similar services. Users can also use a range of backup synchronization APPs, such as Centralized Backup, Duple Backup, or TerraSync to perform synchronized file backups at set times, or to back up multiple computers to the TNAS. The system also supports the use of third-party backup software to provide even more comprehensive data backup solutions.



### FTP server

TNAS supports the use of an FTP server to share files, with restrictions on the bandwidth for uploading and downloading controlled by the number of online devices. It also supports write only FTP, allowing users canupload files without gaining access to the directory list and files, if required.



### Security Operations Center

Multiple webcams can be connected and managed synchronously to facilitate real-time monitoring, video recording, playback, dynamic detection, and event alarm and notification.



## Multimedia Center

TNAS offers secure storage and backup for photos, videos, and audio files of multiple types to allow easy access and sharing, anytime and anywhere.

### Terra Photos

Photos stored in a mobile phone can be easily backed up to the TNAS, preventing them from being lost. Its built-in AI algorithm also allows Terra Photos to recognize and classify faces, pets, things, or scenes to a specified directory, allowing rapid identification and organization of photos, facilitating sharing.



### Multimedia Server

Multimedia content can be streamed from the TNAS to DLNA/UPnP multimedia devices for playback and sharing with the family, with access to resources such as smart TV, game consoles, network players, and audio systems. This also facilitates multimedia resource sharing between the TNAS and other smart network devices.



### Multimedia Entertainment

Support for the Plex and Emby Server can help efficiently manage the multimedia content in the TNAS, with sharing to any other client in local network thus facilitated.



### iTunes Server

This also supports the use of iTunes Server to share the music in the TNAS with an iTunes client in the local network. An intelligent playlist is also available.







## Cloud Services

TerraMaster provides cloud services, enabling your TerraMaster NAS connected in the simplest way to store important data safely in the exclusive data center TerraMaster NAS.

### Tnas.online

Tnas.online allows access to the TerraMaster NAS anytime and anywhere, based on a customized TNAS ID, without setting the connection port and firewall. Users can simply log remotely into the mobile APP with their TNAS ID to use TerraMaster services.



### DDNS

DDNS allows access to the TerraMaster NAS using a personal domain name, which is far more convenient than using the IP address. TerraMaster DDNS also supports IPv4 and IPv6 to meet a wide range of usage requirements.



### TNAS mobile

TNAS mobile is an application for mobile devices, freely available in Android and iOS versions. Once you've installed the application, you can remotely access your TNAS devices using your smartphone.



## System Tools

Efficient and reliable storage is a consistent demand among enterprise customers. IT administrators thus need to know the implementation status of their systems and have various services at their fingertips in order to facilitate timely diagnosis of exceptions and to quickly troubleshoot these to ensure the continuous running of the enterprise's services.

### Real-time Warning Notification by System Message or Email

In case of a system error, the server administrator can be notified by means of a system message or an email; the latter may also be sent to any other designated e-mailbox.



### Switch Timing and Wake on LAN

Automatic power-on, power-off and restarts can be set for the NAS as actually required, thus saving power and prolonging the service life of the hard disk. Enabling "wake on LAN" also allows the NAS to be activated by remote control.



Wake on LAN

### S.M.A.R.T. and Hard Disk Status Scanning

The hard disk can be S.M.A.R.T. scanned on a schedule to monitor its status, check for potential problems, and to trigger warning messages as appropriate, as well as setting email reminders for users to take precautionary measures with their confidential data to prevent potential data loss.



### Detailed System Logs

The system can log file access records (including the times of additions, deletions, modifications, and reading, and the account undertaking such operations) online using Samba and AFP, as well as accessing online records such as FTP, HTTP (S), iSSL, Telnet and SSH to seek information on online users; these logs can also be exported for analysis of file access.





# Find the right TerraMaster NAS for your needs

Best For  
**Backup NAS**

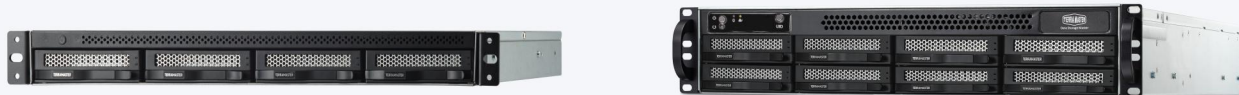


Best For  
**Multimedia**



## Short Depth 4-8 bay Rackmount NAS

Best for installing in smaller racks or space-constrained locations



Best For  
**10GbE NAS**

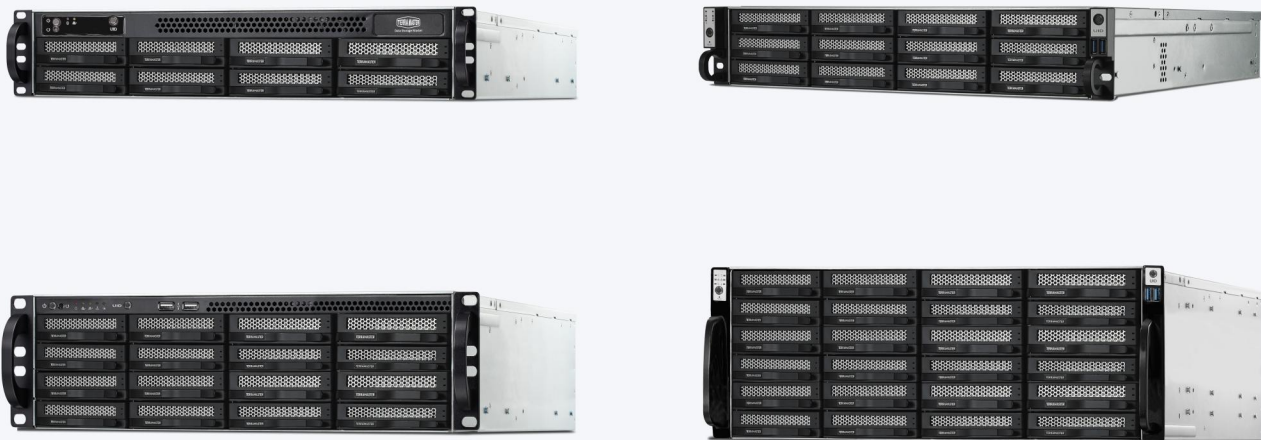


Best For  
**SMB NAS**



## 8-24 bay Rackmount NAS

Best for enterprise virtualization, data-intensive applications and service continuity



Best For  
**10Gbps DAS**



Best For  
**Video Editors**





D5 Hybrid

## 5-bay USB3.2 Gen2 10Gbps Hybrid RAID Enclosure



## DAS Solution Guide

- Complete product line features 2, 4, 5, and 6-bay tower USB Storage and 2, 5, 8, and 16-bay Thunderbolt3 Storage
- Multi-functional and directly attached high-speed storage array series designed for small and medium-sized enterprises and professional users
- High-capacity storage space, high-speed data transmission interfaces, and multiple security protection systems
- Safe, reliable, and scalable professional RAID storage devices to meet the diverse needs of customers

## USB Storage

### USB3.2 10Gbps Enclosure

D2-320/D4-320/D6-320

### USB3.2 Hybrid Enclosure

D5 Hybrid/ D8 Hybrid



### High-speed USB3.2 transmission interface

The latest products all utilize the USB3.2 Gen2 protocol, providing 10Gbps of data transmission bandwidth. The devices are USB Type-C interface and USB type A-C cable equipped, making them compatible with various computer interfaces, including Thunderbolt4, Thunderbolt3, USB4, USB 3.2, USB 3.1, USB 3.0, and USB2.0.

### Super-large Storage Space

The system supports 3.5-inch and 2.5-inch SATA hard disks and 2.5-inch SATA SSDs. The use of a single hard disk with a large capacity, up to 22 TB, is, however, recommended to increase available storage space for Windows/Mac/Linux computers. The storage space supported can be up to 132TB (22TB x 6) at maximum.

### Multiple RAID modes

In models supporting RAID, the RAID 0, 1, 5, 10 and JBOD array modes are all supported to meet the requirements of various applications. This offers an important guarantee of data security and maximizes the use of storage capacity.

### Expansion of NAS storage space

An expansion is available for connection to the USB interface of the NAS to expand its storage capacity in the form of an extension cabinet. This also supports the creation of arrays and storage pools when connected to the TNAS using the latest version of TOS. A RAID storage pool can thus be configured to expand NAS space as an independent storage pool. Nevertheless, the storage space of the NAS could also be expanded by means of a single independent hard disk.



# USB3.2 Storage Series

USB3.2 high-speed storage solutions fully compatible with the USB protocol, and can be used with any computer, TV, server, NAS, set-top box and other devices.

## D6-320

6-Bay USB3.2 Gen2 Storage

- USB 3.2 Gen2 interface speeds up to 10Gbps.
- Supports 22TB HDD capacity up to 132TB, expandable
- Compatible with Windows, Mac, and Linux machines. No drivers needed.
- High-speed and large-capacity storage ideal for storing photos, videos, and music.



## D4-320

4-Bay USB3.2 Gen2 Storage

- USB 3.2 Gen2 interface speeds up to 10Gbps.
- Supports 22TB HDD capacity up to 88TB.
- Compatible with Windows, Mac, and Linux machines No drivers needed.
- High-speed and large-capacity storage ideal for storing photos, videos, and music.



## D2-320

2-Bay USB3.2 Gen2 RAID Storage

- USB3.2 Gen2 interface speeds up to 10Gbps.
- Hardware RAID support RAID 0/ 1 , and Single Disk.
- Supports 22TB HDD capacity up to 44TB.
- Compatible with Windows, Mac, and Linux machines No drivers needed.
- High-speed and large-capacity storage ideal for storing photos, videos, and music.



# USB3.2 Hybrid Storage

USB3.2 RAID storage solutions great for video editing, photo backup, storage of technical documents, archival backup, music libraries, financial records, storage of video surveillance recordings and corporate data storage.

## D5 Hybrid

5-Bay USB3.2 HDD + NVMe SSD Hybrid Storage

- Innovative Storage supports up to 2 SATA HDDs/SSDs and 3 M.2 2280 NVMe SSDs.
- Unique 2+3 RAID mode, hard drives in tray 1 and 2 support RAID 0/ 1 , and Single Disk.
- USB3.2 Gen2 interface speeds up to 10Gbps.
- Supports 22TB HDD capacity up to 68TB (22TB x 2 + 8TB SSD x 3).
- Compatible with Windows, Mac, and Linux machines No drivers needed.
- High-speed and large-capacity storage ideal for storing photos, videos, and music.



## D8 Hybrid

8-Bay USB3.2 HDD + NVMe SSD Hybrid Storage

- Innovative Storage supports up to 4 SATA HDDs/SSDs and 4 M.2 2280 NVMe SSDs.
- USB3.2 Gen2 interface speeds up to 10Gbps.
- Supports 22TB HDD capacity up to 120TB (22TB x 4 + 8TB SSD x 4).
- Compatible with Windows, Mac, and Linux machines No drivers needed.
- High-speed and large-capacity storage ideal for storing photos, videos, and music.



## D5-300

5-Bay Hardware RAID5 Storage

- Hardware RAID support RAID 0/1/5/10, CLONE, JBOD, and Single Disk.
- USB 3.1 Gen1 interface speeds up to 220MB/s.
- Compatible with Windows, Mac, and Linux machines No drivers needed.
- Large-capacity and safe RAID levels ideal for storing photos, videos, and music.





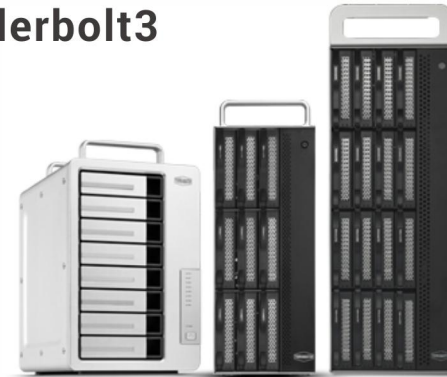
# Thunderbolt 3 Storage



## 4K Video Editing Thunderbolt3



## 8K Professional-Grade Thunderbolt3



## Lightning speed!

Thunderbolt 3 products are all equipped with dual Thunderbolt 3 40Gbps interfaces and hardware RAID controllers. The D16-Thunderbolt 3 can achieve a transmission speed of up to 2,817 MB/s in its RAID 0 array mode, with up to 2,480 MB/s seen in RAID 6 array mode.

## Multiple RAID modes

RAID 0, 1, 5, 6, 10, and 50, along with JBOD, and various other array modes are supported to meet various application requirements. This offers an important guarantee of data security and maximizes the use of storage capacity.

## Efficient non-linear editing and production

Use of the TerraMaster Thunderbolt array cabinet in the post-production process for film and television can facilitate the editing of multi-track 4K/8K high-definition material without lag, thus supporting collaborative work for special effects production, video synthesis, and shots as well as making import and export easier. All data can be read and written smoothly, significantly reducing the production period, while transmission performance is multiplied, greatly improving the work efficiency of content creators.

## Compatibility with various software for non-linear editing

**Adobe Premiere pro:** The device supports multi-slice and multi-machine editing with Adobe Premiere pro, optimizing CPU, storage and graphics card performance.

**Edius:** The product supports a complete file workflow with Edius, optimizing performance with respect to real-time output, tracking, multi-format mixing, synthesis, chroma keys, subtitles, and timeline outputs.

**DaVinci Resolve:** The product supports intelligent database management and collaborative work in the DaVinci Resolve program, making this more convenient and more rapid.

**Final Cut Pro:** This offer an expanded resource library (Libraries) for Mac devices with a capacity up to on hundreds of terabytes, allowing direct clipping and output of videos, greatly reducing the resource burden on Mac devices, and tapping into the vast potential of Mac devices using Final Cut Pro.

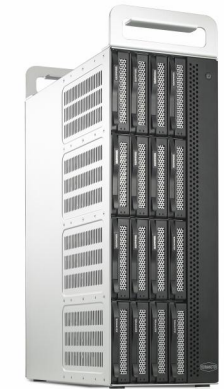
# D16/D8/D5/D2 -Thunderbolt 3 Series

High performance storage solutions for small- and medium-sized enterprises in need of high-speed, large-capacity storage for content creation, perfect for creators working on applications like Final Cut Pro X, Lightroom, Resolve, and others.

## D16-Thunderbolt3 (D16-331)

16-Bay Professional-Grade Thunderbolt3 RAID Storage

- Two 40Gb/s Thunderbolt 3 ports Lightning-Fast up to 2800MB/s.
- Hardware RAID support RAID 0/1/5/6/10/50 multiple RAID modes.
- Multi-screen displays with up to 3 monitors or daisy-chain up to 6 devices.
- Supports 22TB HDD capacity up to 352TB, expandable capacity up to 2PB.
- High-speed, large-capacity storage for Video Editing and Photograph.



## D8-Thunderbolt3 (D8-332)

8-Bay Professional-Grade Thunderbolt3 RAID Storage

- Two 40Gb/s Thunderbolt 3 ports Lightning-Fast up to 2100MB/s.
- Hardware RAID support RAID 0/1/5/10/50 multiple RAID modes.
- Multi-screen displays with up to 3 monitors or daisy-chain up to 6 devices.
- Supports 22TB HDD capacity up to 176TB, expandable capacity up to 1PB.

## D5-Thunderbolt3 (D5-330)

5-Bay Professional-Grade Thunderbolt3 RAID Storage

- Two 40Gb/s Thunderbolt 3 ports Lightning-Fast up to 1035MB/s.
- Hardware RAID support RAID 0/1/5/10, JBOD, SINGLE multiple modes.
- Multi-screen displays with up to 3 monitors or daisy-chain up to 6 devices.
- Supports 22TB HDD capacity up to 110TB, expandable capacity up to 660TB.



## TD2-Thunderbolt3 (D2-330)

2-Bay Portable Thunderbolt3 RAID Storage






- Two 40Gb/s Thunderbolt 3 ports Lightning-Fast up to 760MB/s.
- Hardware RAID support RAID0, RAID1, JBOD, SINGLE multiple modes.
- Multi-screen displays with up to 3 monitors or daisy-chain up to 6 devices.
- Portable design easily transported for video recording, copying, and demos.









# Enterprise Rackmount NAS







## Hardware Specification

				
Models	U24-722-2224	U16-722-2224	U12-722-2224	U8-722-2224
Form Factor	Rackmount	Rackmount	Rackmount	Rackmount
Processor				
Processor Model	Intel XEON E-2224G	Intel XEON E-2224G	Intel XEON E-2224G	Intel XEON E-2224G
Processor Frequency	Quad-Core, 3.3GHz (Maximum Turo: 3.7GHz)	Quad-Core, 3.3GHz (Maximum Turo: 3.7GHz)	Quad-Core, 3.3GHz (Maximum Turo: 3.7GHz)	Quad-Core, 3.3GHz (Maximum Turo: 3.7GHz)
Hardware Encryption Engine	✓	✓	✓	✓
Memory				
System Memory	8GB	8GB	8GB	8GB
Pre-installed Memory module	8(1 x 8GB)	8(1 x 8GB)	8(1 x 8GB)	8(1 x 8GB)
Total Memory Slot Number	4	4	4	4
Maximum Supported Memory	128 GB (4*32GB) DDR4	128 GB (4*32GB) DDR4	128 GB (4*32GB) DDR4	128 GB (4*32GB) DDR4
Storage				
Disk Slot Number	24	16	12	8
Compatible Drive types	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD
	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD
Maximum Internal Raw Storage Capacity	528 TB (22TB x 24) (Capacity may vary by RAID types)	352 TB (22TB x 16) (Capacity may vary by RAID types)	264 TB (22TB x 12) (Capacity may vary by RAID types)	176 TB (22TB x 8) (Capacity may vary by RAID types)
File System				
Internal Drive	Btrfs, EXT4	Btrfs, EXT4	Btrfs, EXT4	Btrfs, EXT4
External Drive	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+
External Ports				
10 Gigabit Ethernet Port	Optional	Optional	Optional	Optional
2.5 Gigabit Ethernet Port	/	/	/	/
1 Gigabit Ethernet Port	4	4	4	4
USB 3.2 Gen 2 (10Gbps) Port	/	/	/	/
USB 3.2 Gen 1 (5Gbps) Port	2	2	2	2
USB 2.0 Port	4	4	4	4
HDMI Output	1	1	1	1
VGA Output	1	1	1	1
2280 M.2 NVMe Slot	1	1	1	1
PCIe Slots	1 x PCIe3.0 X8 slot	2 x PCIe3.0 X8 slot	2 x PCIe3.0 X8 slot	1 x PCIe X16 slot(PCIe 3.0 X16), 2 x PCIe X8 slot(PCIe 3.0 X8)
Appearance				
Size (H*W*D)	440 x 550 x 176 mm	440 x 560 x 136 mm	440 x 560 x 88 mm	440 x 560 x 88 mm
Packaging Size (H*W*D)	795 x 575 x 200 mm	800 x 585 x 285 mm	795 x 575 x 200 mm	795 x 575 x 200 mm
Weight	20Kg	18.6Kg	16Kg	14Kg
Others				
Power Supply	800W	550W	550W	550W
Dual Power Supply	Optional	Optional	Optional	Optional
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	276W(Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state)	220W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state)	180W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state)	120W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state)
	98 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in hibernation)	90 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in hibernation)	86 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in hibernation)	78 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in hibernation)
System Fan	120mm x120mm x 38mm 3PCS	120mm x120mm x 38mm 3PCS	80 mm x 80 mm x38mm 3 pcs	80 mm x 80 mm x38mm 3 pcs







			
Models	U8-450	U8-423	U4-423
Form Factor	Rackmount	Rackmount	Rackmount
Processor			
Processor Model	Intel Atom C3558R	Intel Celeron N5095	Intel Celeron N5095
Processor Frequency	Quad-Core 2.4GHz	Quad Core 2.0 Ghz (Max burst up to 2.9 GHz)	Quad Core 2.0 GHz (Max burst up to 2.9 GHz)
Hardware Encryption Engine	✓	✓	✓
Memory			
System Memory	8GB	4GB	4GB
Pre-installed Memory module	8(1 x 8GB)	4GB	4GB
Total Memory Slot Number	2 (SO-DIMM)	2 (SO-DIMM)	2 (SO-DIMM)
Maximum Supported Memory	32 GB (16 GB + 16 GB)	32 GB (16 GB + 16 GB)	32 GB (16 GB + 16 GB)
Storage			
Disk Slot Number	8	8	4
Compatible Drive types	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD
	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD
Maximum Internal Raw Storage Capacity	176 TB (22TB x 8) (Capacity may vary by RAID types)	176 TB (22TB x 8) (Capacity may vary by RAID types)	88 TB (22TB x 4) (Capacity may vary by RAID types)
File System			
Internal Drive	Btrfs, EXT4	Btrfs, EXT4	Btrfs, EXT4
External Drive	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+
External Ports			
10 Gigabit Ethernet Port	2x SFP+	/	/
2.5 Gigabit Ethernet Port	2× RJ45	2	2
1 Gigabit Ethernet Port	/	/	/
USB 3.2 Gen 2 (10Gbps) Port	/	/	2
USB 3.2 Gen 1 (5Gbps) Port	2	2	/
USB 2.0 Port	/	/	/
HDMI Output	/	1	1
VGA Output	/	/	/
2280 M.2 NVMe Slot	2	1	1
PCIe Slots	/	/	/
Appearance			
Size (H*W*D)	483x414x89 mm	440 x 560 x 88 mm	440 x 360 x 45 mm
Packaging Size (H*W*D)	838 x 429 x 200 mm	710 x 580 x 217 mm	545 x 453 x 95 mm
Weight	14Kg	16Kg	6.8Kg
Others			
Power Supply	250W	250W	90W
Dual Power Supply	/	/	/
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	65W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state)	65W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state)	35.2 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in read/write state)
	28 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in hibernation)	28 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in hibernation)	13.9 W (Fully loaded Seagate 4TB ST4000VN008 hard drive(s) in hibernation)
System Fan	80 mm x 80 mm x38mm 3 pcs	80 mm x 80 mm x38mm 3 pcs	40 mm x 40 mm x28mm 3 pcs



SMB NAS






					
Models	T12-450	T9-450	T12-423	T9-423	T6-423
Form Factor	Tower	Tower	Tower	Tower	Tower
Processor					
Processor Model	Intel Atom C3558R	Intel Atom C3558R	Intel Celeron N5095	Intel Celeron N5095	Intel Celeron N5095
Processor Frequency	Quad-Core 2.4GHz	Quad-Core 2.4GHz	Quad Core 2.0GHz (Max burst up to 2.9GHz)	Quad Core 2.0GHz (Max burst up to 2.9GHz)	Quad Core 2.0GHz (Max burst up to 2.9GHz)
Hardware Encryption Engine	√(AES-NI)	√(AES-NI)	√(AES-NI)	√(AES-NI)	√(AES-NI)
Memory					
System Memory	8GB SODIMM DDR4	8GB SODIMM DDR4	8GB SODIMM DDR4	8GB SODIMM DDR4	4GB SODIMM DDR4
Pre-installed Memory module	8GB (1 x 8GB)	8GB (1 x 8GB)	8GB (1 x 8GB)	8GB (1 x 8GB)	4GB (1 x 4GB)
Total Memory Slot Number	2	2	2	2	2
Maximum Supported Memory	32 GB (2 *16GB)	32 GB (2 *16GB)	32 GB (2 *16GB)	32 GB (2 *16GB)	32 GB (2 *16GB)
Storage					
Disk Slot Number	12	9	12	9	6
Compatible Drive types	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD
	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD
Maximum Internal Raw Storage Capacity	264TB (22TB x 12) (Capacity may vary by RAID types)	198TB (22TB x 9) (Capacity may vary by RAID types)	264TB (22TB x 12) (Capacity may vary by RAID types)	198TB (22TB x 9) (Capacity may vary by RAID types)	132TB (22TB x 6) (Capacity may vary by RAID types)
External Ports					
10 Gigabit Ethernet Port	2 × SFP+	2 × SFP+			
2.5 Gigabit Ethernet Port	2 × RJ45	2 × RJ45	2	2	2
1 Gigabit Ethernet Port				2	
USB 3.2 Gen 2 (10Gbps) Port			2		2
USB 3.2 Gen 1 (5Gbps) Port	2	2			
HDMI Port			1	1	1
2280 M.2 NVMe Slot	2	2	1	1	2
Appearance					
Size (H*W*D)	334 x 163x 295 mm	334 x 135 x 295 mm	334 x 163x 295 mm	334 x 135 x 295 mm	225 x 131 x 218 mm
Packaging Size (H*W*D)	437x 235x 370 mm	467 x 225 x 390 mm	437x 235x 370 mm	467 x 225 x 390 mm	312x 189 x 267 mm
Weight	Gross Weight: 10.3 Kg	Gross Weight: 8.9Kg	Gross Weight: 10.3 Kg	Gross Weight: 8.9Kg	Gross Weight: 5.0 Kg
Others					
Power Supply	500W	250W	500W	250W	120W
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	94 W (Read/write state)	72 W (Read/write state)	94 W (Read/write state)	72 W (Read/write state)	52 W (Read/write state)
	32 W (System Hibernation)	29 W (System Hibernation)	32 W (System Hibernation)	29 W (System Hibernation)	16 W (System Hibernation)
System Fan	92 mm x 92 mm x25mm 3 pcs	80 mm x 80 mm x25mm 3 pcs	92 mm x 92 mm x25mm 3 pcs	80 mm x 80 mm x25mm 2 pcs	80 mm x 80 mm x25mm 2 pcs
Fan Mode	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed
Noise Level	31.4 dB(A) ( Idle state)	31.2 dB(A) ( Idle state)	31.4 dB(A) ( Idle state)	31.2 dB(A) ( Idle state)	28.2 dB(A) ( Idle state)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Limited warranty	2 years	2 years	2 years	2 years	2 years
Certificate	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC
Environment	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE





SOHO /HOME NAS

					
Models	F6-424 Pro	F6-424	F4-424 Pro	F4-424	F2-424
Form Factor	Tower	Tower	Tower	Tower	Tower
Processor					
Processor Model	Intel Core i3	Intel N95	Intel Core i3	Intel N95	Intel N95
Processor Frequency	8-Core (up to 3.80 GHz)	Quad Core (up to 3.40 GHz)	8-Core (up to 3.80 GHz)	Quad Core (up to 3.40 GHz)	Quad Core (up to 3.40 GHz)
Hardware Encryption Engine	√(AES-NI)	√(AES-NI)	√(AES-NI)	√(AES-NI)	√(AES-NI)
Memory					
System Memory	32GB SODIMM DDR5	8GB SODIMM DDR5	32GB SODIMM DDR5	8GB SODIMM DDR5	8GB SODIMM DDR5
Pre-installed Memory module	32GB (1 x 32GB)	8GB (1 x 8GB)	32GB (2 x 16GB)	8GB (1 x 8GB)	8GB (1 x 8GB)
Total Memory Slot Number	1	2	1	2	2
Maximum Supported Memory	32GB( 1×32GB)	32 GB (2 *16GB)	32GB( 1×32GB)	32 GB (2 *16GB)	32 GB (2 *16GB)
Storage					
Disk Slot Number	6	6	4	4	2
Compatible Drive types	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD
	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD
Maximum Internal Raw Storage Capacity	132TB (22TB x6) (Capacity may vary by RAID types)	132TB (22TB x6) (Capacity may vary by RAID types)	88TB (22TB x 4) (Capacity may vary by RAID types)	88TB (22TB x 4) (Capacity may vary by RAID types)	44TB (22TB x 2) (Capacity may vary by RAID types)
External Ports					
10 Gigabit Ethernet Port	Btrfs, EXT4	Btrfs, EXT4	Btrfs, EXT4	Btrfs, EXT4	Btrfs, EXT4
2.5 Gigabit Ethernet Port	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+	EXT3, EXT4, NTFS, FAT32, HFS+
USB 3.2 Gen 2 (10Gbps) Port	2	2	2	2	2
USB 3.2 Gen 1 (5Gbps) Port					
HDMI Port	1	1	1	1	1
2280 M.2 NVMe Slot	2	2	2	2	2
Appearance					
Size (H*W*D)	222 x 240 x 154 mm	222 x 240 x 154 mm	222 x 179 x 154 mm	222 x 179 x 154 mm	222 x 119 x 154 mm
Packaging Size (H*W*D)	300 x 336 x 186 mm	300 x 336 x 186 mm	300 x 275 x 186 mm	300 x 275 x 186 mm	258 x 220 x 170 mm
Weight	Gross Weight: 3.8 Kg	Gross Weight: 3.8 Kg	Gross Weight: 3.4 Kg	Gross Weight: 3.4 Kg	Gross Weight: 5.0 Kg
Others					
Power Supply	120W	120W	90W	90W	40W
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	60.0 W (Read/write state)	60.0 W (Read/write state)	35.2 W (Read/write state)	35.2 W (Read/write state)	22.1 W (Read/write state)
	22.0 W (System Hibernation)	22.0 W (System Hibernation)	13.9 W (System Hibernation)	13.9 W (System Hibernation)	11.4 W (System Hibernation)
System Fan	92 mm x 92 mm x25mm 2 pcs	92 mm x 92 mm x25mm 2 pcs	120 mm x 120 mm x25mm 1 pcs	120 mm x 120 mm x25mm 1 pcs	80 mm x 80 mm x25mm 2 pcs
Fan Mode	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed
Noise Level	23.4dB(A) ( Idle state)	23.4dB(A) ( Idle state)	21.0 dB(A) ( Idle state)	21.0 dB(A) ( Idle state)	28.2 dB(A) ( Idle state)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Limited warranty	2 years	2 years	2 years	2 years	2 years
Certificate	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC
Environment	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE







SOHO AND HOME NAS





				
Models	F4-423	F2-423	F4-223	F2-223
Form Factor	Tower	Tower	Tower	Tower
Processor				
Processor Model	Intel Celeron N5095	Intel Celeron N5095	Intel Celeron N4505	Intel Celeron N4505
Processor Frequency	Quad Core 2.0GHz (Max burst up to 2.9GHz)	Dual-core 2.0GHz (Max burst up to 2.5GHz)	Dual Core 2.0GHz (Max burst up to 2.9GHz)	Dual Core 2.0GHz (Max burst up to 2.9GHz)
Hardware Encryption Engine	√ (AES-NI)	√ (AES-NI)	√ (AES-NI)	√ (AES-NI)
Memory				
System Memory	4GB SODIMM DDR4	4GB SODIMM DDR4	4GB SODIMM DDR4	4GB SODIMM DDR4
Pre-installed Memory module	4GB (1 x 4GB)	4GB (1 x 4GB)	4GB (1 x 4GB)	4GB (1 x 4GB)
Total Memory Slot Number	2	2	2	2
Maximum Supported Memory	32 GB (2 *16GB)	32 GB (2 *16GB)	32 GB (2 *16GB)	32 GB (2 *16GB)
Storage				
Disk Slot Number	4	2	4	2
Compatible Drive types	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD
	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD
Maximum Internal Raw Storage Capacity	88TB (22TB x 4) (Capacity may vary by RAID types)	44TB (22TB x 2) (Capacity may vary by RAID types)	88TB (22TB x 4) (Capacity may vary by RAID types)	44TB (22TB x 2) (Capacity may vary by RAID types)
External Ports				
10 Gigabit Ethernet Port				
2.5 Gigabit Ethernet Port	2	2	2	2
1 Gigabit Ethernet Port				
USB 3.2 Gen 2 (10Gbps) Port	2	2	2	2
USB 3.2 Gen 1 (5Gbps) Port				
HDMI Port	1	1	1	1
2280 M.2 NVMe Slot	2	2	2	2
Appearance				
Size (D*W*H)	227 x 225x 136 mm	227 x 119 x 133 mm	227 x 225x 136 mm	227 x 119 x 133 mm
Packaging Size (D*W*H)	300 x 275 x 186 mm	258 x 220 x 170 mm	300 x 275 x 186 mm	258 x 220 x 170 mm
Weight	Gross Weight: 3.6Kg	Gross Weight: 2.4Kg	Gross Weight: 3.6Kg	Gross Weight: 2.4Kg
Others				
Power Supply	90W	40W	90W	40W
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	35.2 W (Read/write state)	22.1 W (Read/write state)	35.2 W (Read/write state)	22.1 W (Read/write state)
	13.9 W (System Hibernation)	11.4 W (System Hibernation)	13.9 W (System Hibernation)	11.4 W (System Hibernation)
System Fan	80 mm x 80 mm x25mm 1 pcs	80 mm x 80 mm x25mm 2 pcs	80 mm x 80 mm x25mm 2 pcs	80 mm x 80 mm x25mm 2 pcs
Fan Mode	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed
Noise Level	27.4dB(A) ( Idle state)	26.4dB(A) ( Idle state)	27.4dB(A) ( Idle state)	26.4dB(A) ( Idle state)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Limited warranty	2 years	2 years	2 years	2 years
Certificate	FCC, CE, CCC, KCC	FCC, CE, CCC, KC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC
Environment	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE

			
Models	F4-212(2G)	F4-212(1G)	F2-212
Form Factor	Tower	Tower	Tower
Processor			
Processor Model	Realtek 1619B	Realtek 1619B	Realtek 1619B
Processor Frequency	Quad-core 2.0GHz	Quad-core 2.0GHz	Quad-core 2.0GHz
Hardware Encryption Engine	√	√	√
Memory			
System Memory	2GB DDR3	1GB DDR3	1GB DDR3
Pre-installed Memory module	2GB (1 x 2GB)	1GB (1 x 1GB)	1GB (1 x 1GB)
Total Memory Slot Number	/	/	/
Maximum Supported Memory	/	/	/
Storage			
Disk Slot Number	4	4	2
Compatible Drive types	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD	3.5" /2.5" SATA HDD
	2.5" SATA SSD	2.5" SATA SSD	2.5" SATA SSD
Maximum Internal Raw Storage Capacity	88TB (22TB x 4) (Capacity may vary by RAID types)	88TB (22TB x 4) (Capacity may vary by RAID types)	44TB (22TB x 2) (Capacity may vary by RAID types)
External Ports			
10 Gigabit Ethernet Port			
2.5 Gigabit Ethernet Port			
1 Gigabit Ethernet Port	1	1	1
USB 3.0 Gen 2 (10Gbps) Port	1	1	1
USB 2.0 Gen 1 (5Gbps) Port	1	1	1
HDMI Port			
2280 M.2 NVMe Slot			
Appearance			
Size (D*W*H)	222x 179x 150 mm	222x 179x 150 mm	222 x 119 x 150 mm
Packaging Size (D*W*H)	277 x 275 x 194 mm	277 x 275 x 194 mm	258 x 220 x 170 mm
Weight	Gross Weight: 3.6Kg	Gross Weight: 3.6Kg	Gross Weight: 2.4Kg
Others			
Power Supply	72W	72W	40W
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	39 W (Read/write state)	39 W (Read/write state)	22.1 W (Read/write state)
	13.4 W (System Hibernation)	13.4 W (System Hibernation)	11.4 W (System Hibernation)
System Fan	80 mm x 80 mm x25mm 1 pcs	80 mm x 80 mm x25mm 1 pcs	80 mm x 80 mm x25mm 1 pcs
Fan Mode	Smart, High /Middle Low speed	Smart, High /Middle Low speed	Smart, High /Middle Low speed
Noise Level	21 dB(A) ( Idle state)	21 dB(A) ( Idle state)	19dB(A) ( Idle state)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Limited warranty	2 years	2 years	2 years
Certificate	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC
Environment	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE




USB3.2 External Storage Enclosure

			
Models	D8 Hybrid	D5 Hybrid	D5-300
Form Factor	Tower	Tower	Tower
Storage			
Disk Slot Number	8	5	5
Compatible Drive types	3.5" /2.5" SATA HDD 2.5" SATA SSD	3.5" /2.5" SATA HDD 2.5" SATA SSD	3.5" /2.5" SATA HDD 2.5" SATA SSD
RAID Mode	4*HDD Support RAID 0, 1, SingleDisk and JBOD 4* M.2 SSD support SingleDisk, NO RAID	2*HDD Support RAID 0, 1, SingleDisk and JBOD 3* M.2 SSD support SingleDisk, NO RAID	Hardware RAID Controller Support RAID 0, 1, 5, 10, SingleDisk, Clone and JBOD
Maximum Internal Raw Storage Capacity	120TB (22TB x 4 + 8TB x 4) (Capacity may vary by RAID types)	68TB (22TB x 2 + 8TB x 3) (Capacity may vary by RAID types)	110TB (22TB x 5) (Capacity may vary by RAID types)
External Ports			
Interface	USB 3.2 Gen2 type-C x1 up to 10Gbps	USB 3.2 Gen2 type-C x1 up to 10Gbps	USB 3.2 Gen2 type-C x1 up to 10Gbps
Transfer Rate	Read: 900MB/s, Write: 890MB/s (Test: RAID0, fully loaded with SSD(s) for win 10 )	Read: 900MB/s, Write: 890MB/s (Test: RAID0, fully loaded with SSD(s) for win 10 )	Read: 210MB/s, Write: 190MB/s (Test: SSD, RAID
Appearance			
Size (H*W*D)	222 x 179x 154 mm	222 x 119 x 154 mm	227 x 225x 136 mm
Packaging Size (H*W*D)	300 x 275 x 186 mm	258 x 220 x 170 mm	300 x 275 x 186 mm
Weight	Gross Weight: 3.3 Kg	Gross Weight: 2.1Kg	Gross Weight: 3.5Kg
Others			
Power Supply	72W	40W	90W
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	46.0 W (Read/write state)	30.0 W (Read/write state)	45.6 W (Read/write state)
System Fan	120 mm x 120 mm x25mm 1 pcs	80 mm x 80 mm x25mm 1 pcs	80 mm x 80 mm x25mm 2 pcs
Fan Mode	Smart	Smart	Smart
Noise Level	21.0 dB(A) ( Idle state)	19.0 dB(A) ( Idle state)	28.4 dB(A) ( Idle state)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Limited warranty	2 years	2 years	2 years
Certificate	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC,KCC
Environment	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Package	Host X 1 Accessories package X 1 AC Power Cord X 1 USB type C-A cable X 1 Quick Start Guide X 1 Limited Warranty Note x 1	Host X 1 Accessories package X 1 AC Power Cord X 1 USB type C-A cable X 1 Quick Start Guide X 1 Limited Warranty Note x 1	Host X 1 Accessories package X 1 AC Power Cord X 1 USB type C-A cable X 1 Quick Start Guide X 1 Limited Warranty Note x 1

			
Models	D6-320	D4-320	D2-320
Form Factor	Tower	Tower	Tower
Storage			
Disk Slot Number	6	4	2
Compatible Drive types	3.5" /2.5" SATA HDD 2.5" SATA SSD	3.5" /2.5" SATA HDD 2.5" SATA SSD	3.5" /2.5" SATA HDD 2.5" SATA SSD
RAID Mode	SingleDisk, No RAID	SingleDisk, No RAID	Hardware RAID Controller Support RAID 0, 1, SingleDisk and JBOD
Maximum Internal Raw Storage Capacity	132TB (22TB x 6)	88TB (22TB x 4)	44TB (22TB x 2)
External Ports			
Interface	USB 3.2 Gen2 type-C x1 up to 10Gbps	USB 3.2 Gen2 type-C x1 up to 10Gbps	USB 3.2 Gen2 type-C x1 up to 10Gbps
Transfer Rate	Read:1016MB/s, Write:986MB/s (Test: Single Disk, fully loaded with SSD(s) for win 10 )	Read:1016MB/s, Write:986MB/s (Test: Single Disk, fully loaded with SSD(s) for win 10 )	Read: 900MB/s, Write: 890MB/s (Test: RAID0, fully loaded with SSD(s) for win 10 )
Appearance			
Size (H*W*D)	225 x 131 x 218 mm	227 x 225x 136 mm	227 x 119 x 133 mm
Packaging Size (H*W*D)	312x 189 x 267 mm	300 x 275 x 186 mm	258 x 220 x 170 mm
Weight	Gross Weight: 5.0 Kg	Gross Weight: 3.5Kg	Gross Weight: 2.1Kg
Others			
Power Supply	120W	72W	40W
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	52 W (Read/write state)	38.6 W (Read/write state)	38.6 W (Read/write state)
System Fan	80 mm x 80 mm x25mm 2pcs	120 x 120 x 25mm 1pcs	80 mm x 80 mm x25mm 1pcs
Fan Mode	Smart	Smart	Smart
Noise Level	28.4 dB(A) ( Idle state)	27.4 dB(A) ( Idle state)	26.4 dB(A) ( Idle state)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Limited warranty	2 years	2 years	2 years
Certificate	FCC, CE, CCC,KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC
Environment	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Package	Host X 1 Accessories package X 1 Power adapter X 1 AC Power Cord X 1 Thunderbolt cable x1(40Gbps) Quick Start Guide X 1 Limited Warranty Note x 1	Host X 1 Accessories package X 1 Power adapter X 1 AC Power Cord X 1 USB type C-A cable X 1 Quick Start Guide X 1 Limited Warranty Note x 1	Host X 1 Accessories package X 1 Power adapter X 1 USB type C-A cable X 1 Quick Start Guide X 1 Limited Warranty Note x 1



Thunderbolt 3 Hardware RAID Storage

				
Models	D16-Thunderbolt3	D8-332	D5-Thunderbolt3 (D5-330)	TD2-Thunderbolt3 (D2-330)
Form Factor	Tower	Tower	Tower	Tower
Storage				
Disk Slot Number	16	8	5	2
Compatible Drive types	3.5" /2.5" SATA HDD 2.5" SATA SSD	3.5" /2.5" SATA HDD 2.5" SATA SSD	3.5" /2.5" SATA HDD 2.5" SATA SSD	3.5" /2.5" SATA HDD 2.5" SATA SSD
RAID Mode	Hardware RAID Controller Support RAID 0, 1, 5, 6, 10, 50, SingleDisk and JBOD	Hardware RAID Controller Support RAID 0, 1, 5, 10, 50, SingleDisk and JBOD	Hardware RAID Controller Support RAID 0, 1, 5, 10, SingleDisk and JBOD	Hardware RAID Controller Support RAID 0, 1, 5, 10, SingleDisk and JBOD
Maximum Internal Raw Storage Capacity	352TB (22TB x 16) (Capacity may vary by RAID types)	176TB (22TB x 8) (Capacity may vary by RAID types)	110TB (22TB x 5) (Capacity may vary by RAID types)	44TB (22TB x 2) (Capacity may vary by RAID types)
External Ports				
Interface	Thunderbolt 3 x2 up to 40 Gbps DisplayPort 1.4 x1 up to 32.4Gbps, support 8K@60Hz and 4K@120Hz	Thunderbolt 3 x2 up to 40 Gbps DisplayPort 1.4 x1 up to 32.4Gbps, support 8K@60Hz and 4K@120Hz	Thunderbolt 3 X2 up to 40 Gbps DisplayPort 1.2 x1 up to 21.6Gbps, support 4K@60Hz	Thunderbolt 3 X2 up to 40 Gbps DisplayPort 1.2 x1 up to 21.6Gbps, support 4K@60Hz
Transfer Rate	Read: 2817MB/s, Write: 2022MB/s (Test: RAID0, fully loaded with SSD(s) for win 10 )	Read: 2100MB/s, Write: 1720MB/s (Test: RAID0, fully loaded with SSD(s) for win 10 )	Read: 1035MB/s, Write: 917MB/s (Test: RAID0, fully loaded with SSD(s) for win 10 )	Read: 810MB/s, Write:806MB/s (Test: RAID0, fully loaded with SSD(s) for win 10 )
Appearance				
Size (H*W*D)	348x 160x 498 mm	334 x 163x 295 mm	227 x 225 x 176 mm	227 x 119 x 173 mm
Packaging Size (H*W*D)	455*275*616mm	437x 235x 370 mm	300 x 275 x 210 mm	258 x 220 x 200 mm
Weight	Gross Weight: 15.4 Kg	Gross Weight: 10.3 Kg	Gross Weight: 3.5Kg	Gross Weight: 2.2Kg
Others				
Power Supply	550W	550W	120W	90W
AC Input Voltage	100V - 240V AC	100V - 240V AC	100V - 240V AC	100V - 240V AC
Current Frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency	50/60 Hz, Single frequency
Power Consumption	230 W (Read/write state)	94 W (Read/write state)	76.8W (Read/write state)	65.5 W (Read/write state)
System Fan	4 x 90mm	3 x 80mm	2 x 80mm	2 x 80mm
Fan Mode	Smart	Smart	Smart	Smart
Noise Level	55 dB(A) ( Idle state)	31.4 dB(A) ( Idle state)	28.4dB(A) ( Idle state)	26.4 dB(A)( Idle state)
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Limited warranty	2 years	2 years	2 years	2 years
Certificate	FCC, CE, CCC,KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC	FCC, CE, CCC, KCC
Environment	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE	RoHS, WEEE
Package	Host X 1 Accessories package X 1 AC Power Cord X 1 Thunderbolt cable x1(40Gbps) Quick Start Guide X 1 Limited Warranty Note x 1 Screws (several)	Host X 1 Accessories package X 1 AC Power Cord X 1 Thunderbolt cable x1(40Gbps) Quick Start Guide X 1 Limited Warranty Note x 1 Screws (several)	Host X 1 Accessories package X 1 AC Power Cord X 1 Thunderbolt cable x1(40Gbps) Quick Start Guide X 1 Limited Warranty Note x 1	Host X 1 Accessories package X 1 AC Power Cord X 1 Thunderbolt cable x1(40Gbps) Quick Start Guide X 1 Limited Warranty Note x 1



TERRAMASTER BRAND PROMISE

In order to help users purchase TerraMaster products that meet expectations and improve user experience, we make the promise as following:

If the product has quality failure or does not meet your needs, you can contact us within 30 days after purchase to replace it, and get the compensation for an additional 6-month warranty.

Further information

TerraMaster maintains a complete knowledge base with all the latest information and function descriptions related to its products on its official website, [www.terra-master.com](http://www.terra-master.com).







## ABOUT TERRAMASTER

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TerraMaster is a professional brand which focuses on storage products, including network attached storage and direct attached storage, which is sold in more than 40 countries and regions. Products of TerraMaster are mainly designed for customers such as small and medium businesses and home users. With its core competitiveness in excellent hardware design and strong software developing ability, TerraMaster aims to provide customers with excellent products that offer reliability and value.

TerraMaster has focused on the development of storage technology for many years. TerraMaster continues to explore storage technology and applications, such as how to create more functionality and value to storage products and make storage application easier, more convenient, safer and faster to provide customers with a complete, reliable and trusted data storage solution.



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