TERRAMASTER F2-425 Plus

TERRAMASTER F2-425 Plus NAS Storage User Manual

Model: F2-425 Plus

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your TERRAMASTER F2-425 Plus 2-Bay Network Attached Storage (NAS) device. Please read this guide thoroughly before using the product to ensure proper functionality and data integrity.

Setup

1. Package Contents

Verify that all components are present in the package:

- TERRAMASTER F2-425 Plus NAS Unit
- Power Adapter
- Ethernet Cable
- Quick Installation Guide
- Accessory Kit (screws for 2.5" drives, etc.)

2. Hard Drive Installation

The F2-425 Plus supports two 3.5-inch or 2.5-inch SATA hard drives (HDDs) or solid-state drives (SSDs), and three M.2 NVMe SSDs. Drives are not included and must be purchased separately.

2.1. Installing 3.5-inch HDDs

The NAS features tool-free installation for 3.5-inch HDDs using the provided drive trays.



Image: Steps for tool-free installation of 3.5-inch hard drives into the drive trays.

To install a 3.5-inch HDD:

1. Gently pull out an empty drive tray from the NAS unit.
2. Place the 3.5-inch HDD into the tray, aligning the screw holes. The tray's side rails will secure the drive without screws.
3. Slide the loaded tray back into the NAS until it clicks into place.



Image: Demonstrates the smooth sliding mechanism of the drive trays for easy installation.

2.2. Installing M.2 NVMe SSDs

The F2-425 Plus features three M.2 slots for SSD cache or independent storage pools. Each M.2 slot supports up to 8TB.



Image: An internal view of the NAS motherboard showing the three M.2 SSD slots.

To install M.2 NVMe SSDs, you will need to open the NAS enclosure. Refer to the detailed instructions in the Quick Installation Guide for safe access to the M.2 slots. It is recommended to install the M.2 drives intended for the operating system first, followed by additional M.2 drives for caching or other storage purposes.



Image: Overview of the F2-425 Plus highlighting key specifications like Intel N150 CPU, 8GB DDR5 RAM, 3 M.2 slots, and dual 5GbE ports.

3. Initial Power-On and Network Connection

Connect the NAS to your network and power source.

1. Connect one end of the Ethernet cable to a 5GbE LAN port on the NAS and the other end to your router or switch. The F2-425 Plus features dual 5GbE LAN ports for enhanced network performance.
2. Connect the power adapter to the NAS and plug it into an electrical outlet.
3. Press the power button on the front panel to turn on the NAS.



Image: Diagram showing the front panel with a USB port and power button, and the back panel with dual 5GbE LAN ports, HDMI, and multiple USB 10Gbps ports.

Note: The HDMI port is for terminal output only and does not support video output for display purposes.

4. Operating System Installation (TOS 6)

The TERRAMASTER F2-425 Plus runs on TOS 6. Follow the on-screen instructions or the Quick Installation Guide to complete the initial setup and operating system installation. If you are integrating existing data drives, install TOS 6 on a new drive first. TerraMaster's Direct Data Drive Mounting technology allows you to hot-plug existing data drives for instant access without formatting, preserving your files.



Image: Illustrates the feature of directly mounting data hard drives without requiring reformatting.

Operating the NAS

1. Accessing Your NAS

After initial setup, you can access your NAS via a web browser or the TNAS Mobile App.

- **Web Interface:** Open a web browser and enter the IP address of your NAS or use the TerraMaster application to discover it on your network.
- **TNAS Mobile App:** Download the TNAS Mobile App for full remote control and management from your smartphone or tablet.

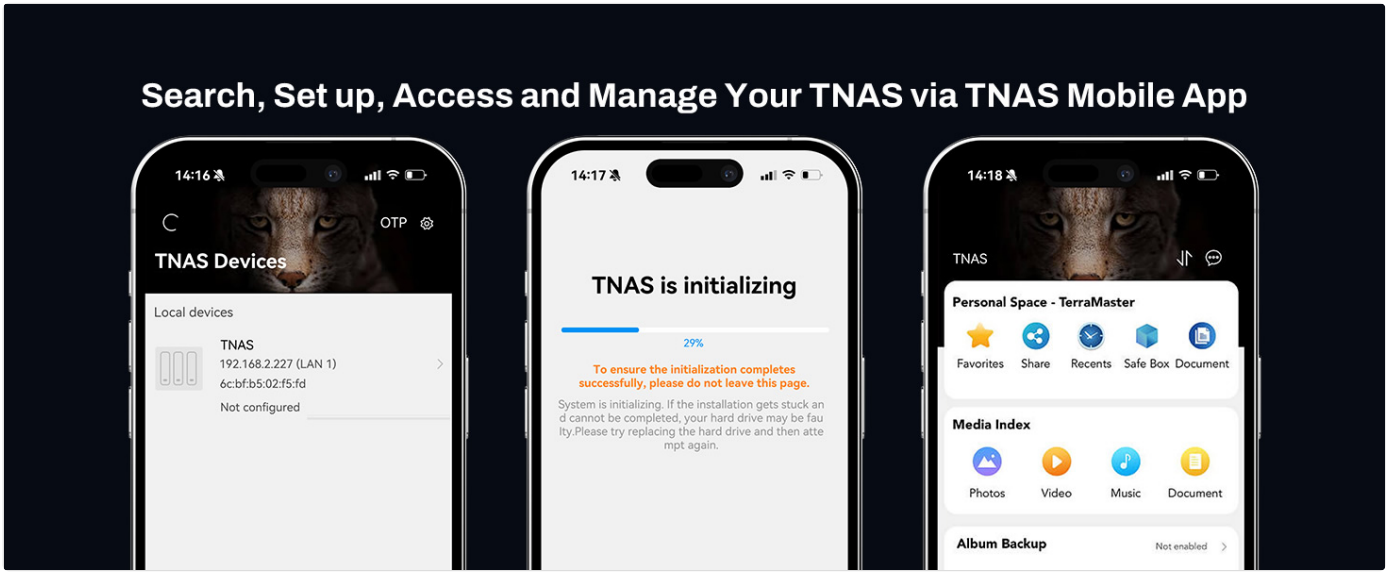


Image: Screenshots of the TNAS Mobile App interface, showing device discovery, initialization progress, and file management options.

2. Data Storage and Management

The F2-425 Plus supports up to 84TB total capacity (2x HDD + 3x M.2 SSD). It offers flexible storage pools and supports various file protocols for seamless cross-platform access.



Image: Illustrates the 84TB maximum storage capacity and provides examples of how much data (photos, music, movies, documents) can be stored.



Image: Shows various protocols supported for file access, including WebDAV, SMB, iSCSI, SFTP/FTP, AFP, and NFS, enabling access from macOS and Windows devices.

3. Data Backup and Synchronization

The F2-425 Plus offers comprehensive data protection and synchronization features.

- **CloudSync:** Supports synchronization with popular cloud services like Google Drive, OneDrive, and Dropbox.
- **TerraSync:** Enables two-way synchronization between the F2-425 Plus and PCs/Macs for collaborative work.
- **Business Backup Suite (BBS):** Provides centralized backup, Dupla Backup, Snapshot, and disaster recovery solutions.
- **Other Backup Options:** Time Machine, Rsync Backup, USB Copy, Folder Mirror Backup.



Image: Diagram illustrating the components of the Business Backup Suite (BBS), including Centralized Backup, TerraSync, CloudSync, Snapshot, and Dupla Backup.

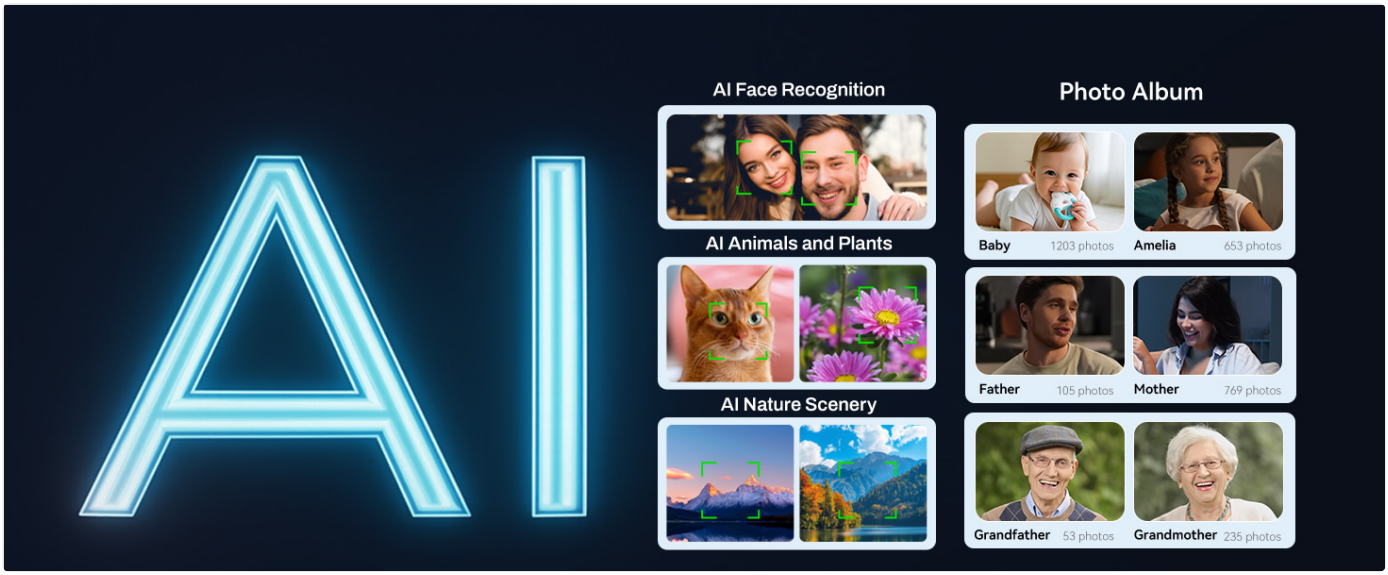


Image: Depicts TerraSync facilitating data synchronization between the NAS and PC/Mac for team collaboration.

4. Multimedia and Application Features

The F2-425 Plus serves as a multimedia hub and supports various applications.

- **4K/8K Transcoding:** Hardware-accelerated 8K H.265 decoding for lag-free streaming with Plex, Emby, or Jellyfin.
- **Docker & Virtual Machines:** Supports Docker, Virtual Machines, and Portainer for advanced users.
- **Quick Download:** Integrated apps like QB/Torrent/Transmission simplify file downloads.
- **AI Photo Management:** Features AI face recognition, animal/plant recognition, and smart album auto-categorization.
- **Surveillance Manager:** Connect cameras to manage and view real-time or historical video recordings.
- **Private Cloud:** Establish a secure, one-click private cloud solution.

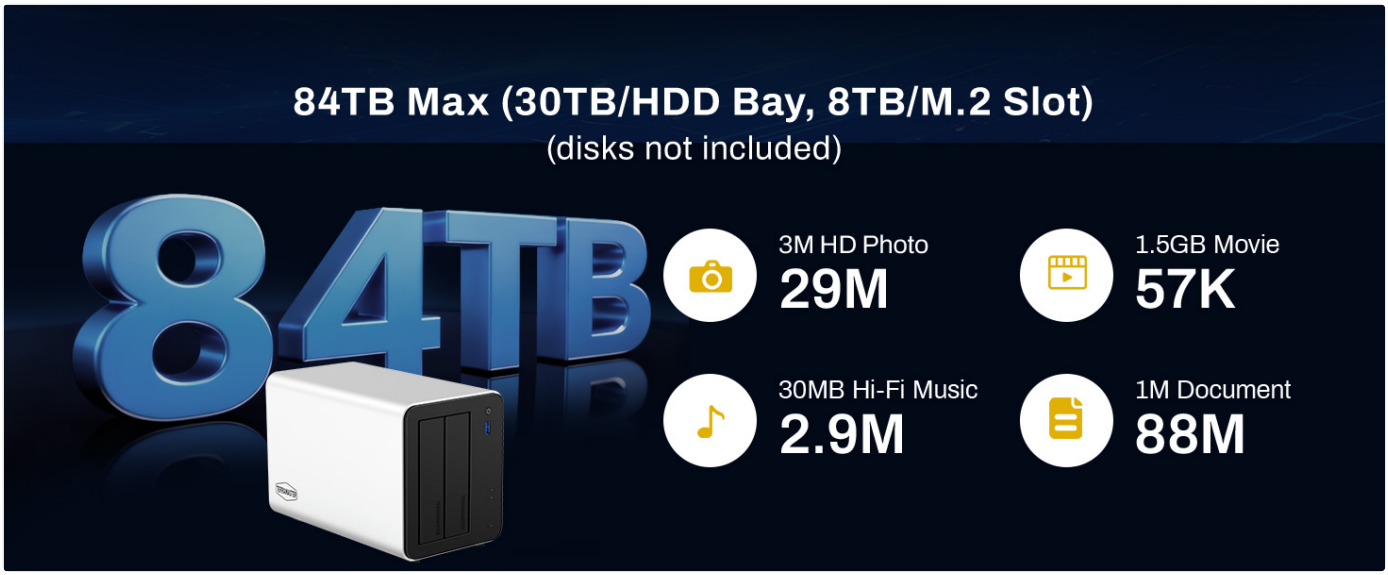


Image: Shows a family enjoying 8K video content streamed from the NAS, highlighting hardware-accelerated decoding for Plex, Emby, and Jellyfin.



Image: Illustrates AI features for photo management, including face recognition, animal/plant identification, and nature scenery categorization.



Image: Shows a security camera and the Surveillance Manager interface with options for live view, recording, camera management, timeline, snapshot, and log.

Maintenance

- **Drive Health:** Regularly monitor the health status of your installed HDDs and SSDs through the TOS interface.
- **Power Management:** Configure drives to spin down when not in use to conserve power and extend drive lifespan.
- **Software Updates:** Keep your TOS operating system and installed applications updated to ensure optimal performance and security.
- **Cleaning:** Periodically clean the exterior of the NAS unit with a soft, dry cloth. Ensure ventilation openings are free from dust to maintain proper airflow.

Troubleshooting

1. General Issues

- **NAS Not Powering On:** Ensure the power adapter is securely connected to both the NAS and a working electrical outlet.
- **Network Connectivity Issues:** Verify that the Ethernet cable is properly connected to both the NAS and your router/switch.

Check network settings in TOS.

- **Slow Performance:**
  - Ensure your network infrastructure (router, cables) supports 5GbE speeds to fully utilize the NAS's dual 5GbE LAN ports.
  - Avoid simultaneous heavy data transfers and multimedia streaming if performance degradation is observed.

2. Drive and Storage Issues

- **Drive Not Detected:** Ensure drives are correctly seated in their bays. For M.2 SSDs, verify proper installation after opening the enclosure.
- **High Drive Temperature:** During heavy write operations, such as RAID rebuilding, some drive slots may experience slightly higher temperatures. Ensure the NAS is placed in a well-ventilated area.
- **RAID Configuration (TRAID):** When using TRAID with only two drives, advanced resiliency features may be limited. For critical data, always implement external backup strategies and monitor disk health. Consider a simple disk setup if TRAID's full benefits are not achievable with your drive configuration.

3. Operating System and Software

- **Alternative OS Installation:** If installing an alternative operating system, note that the BIOS may not support booting from USB directly. You may need to flash the M.2 drive externally and then install it into the NAS.
- **Cloud Sync Issues:** If experiencing difficulties connecting to cloud services like OneDrive or Google Drive, ensure your NAS has proper internet access and check the specific application settings within TOS. Refer to TerraMaster's online documentation for detailed setup guides for cloud synchronization.

SPECIFICATIONS

Feature	Detail
Model	F2-425 Plus
CPU	Intel N150 Quad-Core (up to 3.6GHz)
RAM	8GB DDR5 (non-ECC SODIMM)
Drive Bays	2 x 3.5"/2.5" SATA HDD/SSD
M.2 Slots	3 x M.2 NVMe SSD (up to 8TB each)
Max Internal Capacity	84TB (2x 30TB HDD + 3x 8TB M.2 SSD)
LAN Ports	2 x 5GbE (supports link aggregation, SMB Multichannel)
USB Ports	1 x USB 3.2 Gen2 (10Gbps) on front, 2 x USB 3.2 Gen2 (10Gbps) on rear
HDMI Output	1 (for terminal output only)
Video Decoding	8K H.265
Dimensions (HxWxD)	8.62" x 4.76" x 5.91" (21.89 cm x 12.09 cm x 15.01 cm)
Weight	4.18 pounds (1.9 kg)
Material	Aluminum-alloy chassis



Image: A comparison table highlighting the F2-425 Plus's specifications against other NAS devices, including CPU, RAM, network, storage, OS/Apps, and features.

Warranty Information

TERRAMASTER products typically come with a limited manufacturer's warranty. For specific warranty terms, duration, and conditions applicable to your F2-425 Plus, please refer to the warranty card included in your product packaging or visit the official TERRAMASTER website. Keep your proof of purchase for warranty claims.

Support

For technical assistance, product inquiries, or further support, please contact TERRAMASTER customer service through the following channels:

- **Official Website:** Visit www.terramaster.com for FAQs, downloads, and support resources.
- **Online Support:** Access the online support portal or live chat feature on the TERRAMASTER website.
- **Email Support:** Contact support via email for detailed inquiries.

When contacting support, please have your product model (F2-425 Plus) and serial number ready.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question