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TERRAMASTER F6-424

TERRAMASTER F6-424 NAS Storage User Manual

Model: F6-424

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1. INTRODUCTION

The TERRAMASTER F6-424 is a high-performance 6-bay Network Attached Storage (NAS) device designed for efficient data management and storage. It features an N95 quad-core 4-thread CPU, 8GB DDR5 RAM, dual 2.5GbE ports, and dual M.2 NVMe slots for SSD caching. This manual provides detailed instructions for setting up, operating, and maintaining your F6-424 NAS.

6-Bay Hybrid NAS

Powerful, Whisper-Quiet, Ultra-Fast

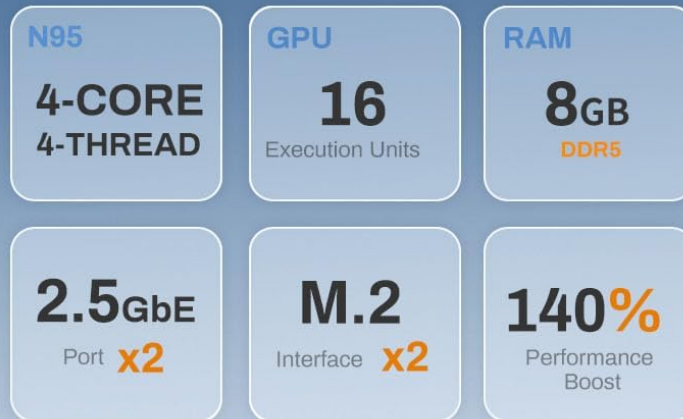


Figure 1: TERRAMASTER F6-424 6-Bay Hybrid NAS with its core specifications including N95 4-core CPU, 16 execution units GPU, 8GB DDR5 RAM, dual 2.5GbE ports, dual M.2 interfaces, and 140% performance boost.

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Video 1: An overview of the TERRAMASTER F6-424 Hybrid NAS, highlighting its N95 4-core CPU and 8GB RAM, along with its high-performance capabilities and features.

2. SETUP

2.1 Package Contents

Before proceeding with the setup, ensure all components are present:

- TERRAMASTER F6-424 NAS Unit
- Power Adapter and Cord
- Ethernet Cable
- Accessory Kit (screws, etc.)
- Quick Installation Guide

2.2 Hard Drive Installation

The F6-424 supports up to six 3.5-inch or 2.5-inch SATA hard drives or SSDs. The tool-free design simplifies installation.

1. Gently pull out an empty drive tray from the NAS unit.
2. For 3.5-inch HDDs, attach the drive to the tray by bending the sides of the tray and aligning the drive with the mounting holes. The Push-Lock design will secure the drive without screws.
3. For 2.5-inch SSDs/HDDs, use the provided screws to secure the drive to the tray.
4. Slide the loaded drive tray back into the NAS until it clicks into place.
5. Repeat for all desired drives.

Push-Lock HDD Tray

Insertion activates lock,
streamlining hard drive installation.



Figure 2: The Push-Lock HDD Tray design allows for easy, tool-free hard drive installation by simply inserting the drive into the tray.

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Video 2: Demonstrates the process of installing hard drives into the TERRAMASTER F6-424 NAS, showcasing the tool-free tray mechanism.

2.3 M.2 SSD Installation

The F6-424 includes dual M.2 NVMe slots for SSD caching, enhancing performance. These slots are easily accessible via a side-sliding cover.

1. Locate the side-sliding cover on the NAS unit.
2. Remove the hand-tightened screws and slide open the cover.

3. Insert the M.2 NVMe SSD into the designated slot on the motherboard.
4. Secure the M.2 SSD with the provided screw.
5. Close the side-sliding cover and tighten the screws.



Figure 3: Illustration of the tool-free M.2 SSD installation process and RAM expansion within the TERRAMASTER F6-424 NAS.

2.4 Connecting the NAS

Connect the NAS to your network and power source.

1. Connect one end of the Ethernet cable to one of the 2.5GbE ports on the back of the NAS and the other end to your router or switch.

2. Connect the power adapter to the NAS power input and plug the power cord into an electrical outlet.
3. Press the power button to turn on the NAS.



Figure 4: Rear panel of the F6-424 NAS, highlighting the dual 2.5GbE LAN ports, USB 3.2 10Gbps ports, HDMI output, and power connection.

3. OPERATING THE NAS

3.1 Initializing the System

After connecting the NAS, you will need to initialize the system and install the operating system (TOS).

- Use the TerraMaster TNAS PC client or a web browser to discover your NAS on the network.

- Follow the on-screen instructions to install the latest TOS 6 operating system.
- Configure your storage pool, including RAID type (e.g., TRAIID, RAID 0/1/5/6/10/JBOD/Single).

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Video 3: Demonstrates the user interface and features of the TERRAMASTER F6-424 NAS, including its TOS 6 operating system, mobile app integration, and 4K video decoding capabilities.

3.2 Data Management and Applications

The F6-424 offers various applications and features for data management.

- **Terra Photos:** Intelligent photo management for organizing and accessing your photo library.
- **TNAS Mobile 3:** Mobile application for remote access, photo backup, and file management on your smartphone.
- **4K Video Decoding:** Supports media servers like Plex, Emby, and Jellyfin for seamless 4K video streaming.
- **Surveillance Manager:** Connect and manage IP cameras for real-time monitoring and video recording.

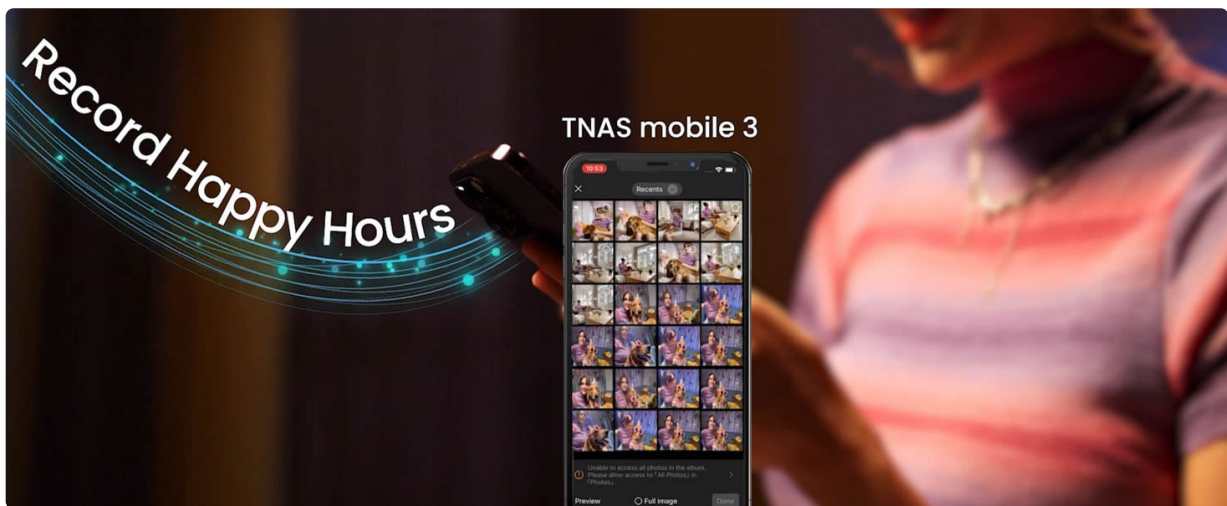


Figure 5: Terra Photos application logo, indicating intelligent photo management capabilities on the NAS.

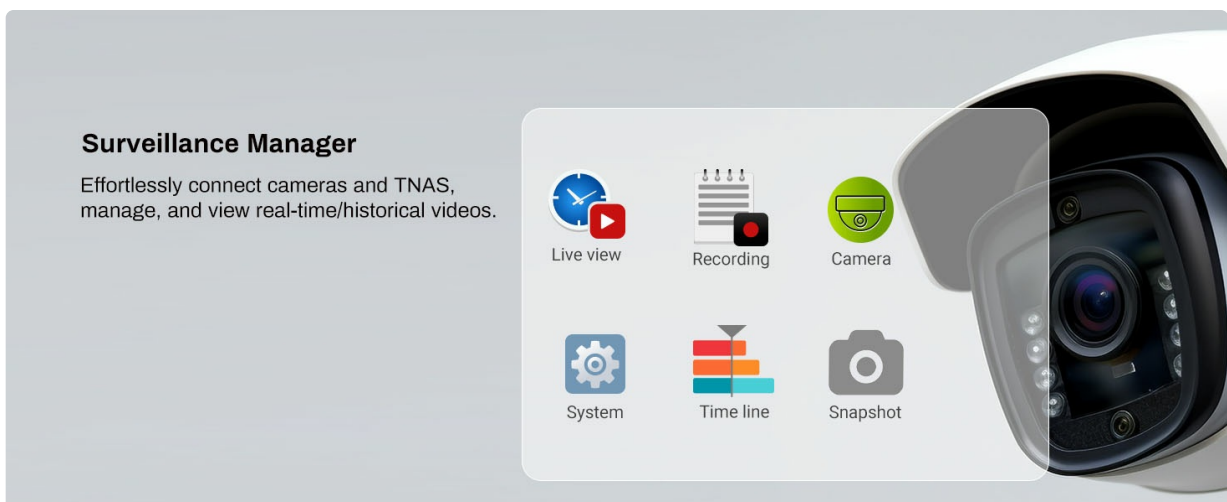


Figure 6: The TNAS mobile 3 application interface on a smartphone, showing a photo gallery for easy access and management of media.

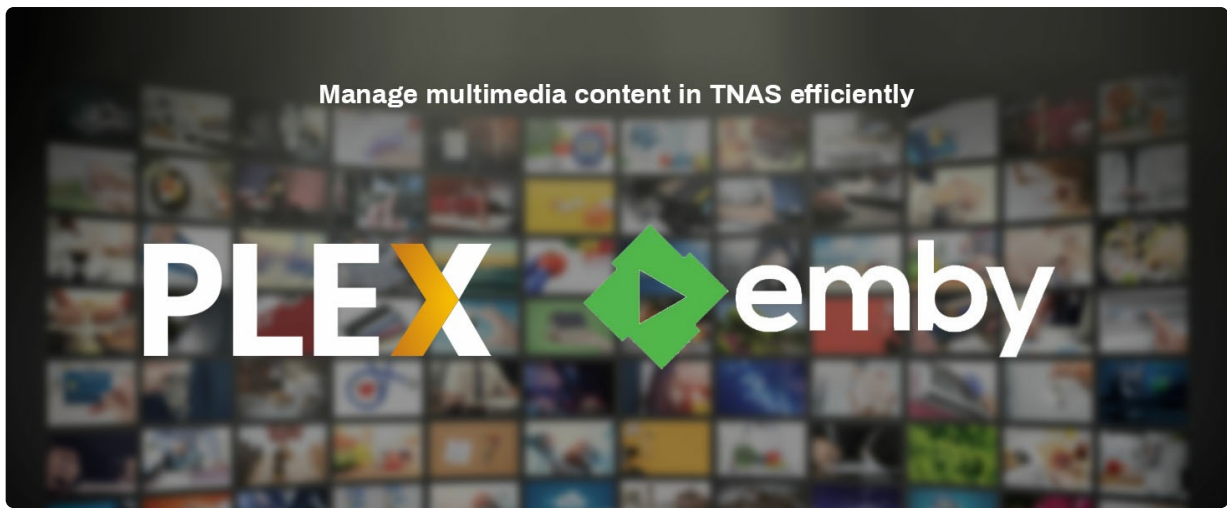


Figure 7: The F6-424 supports 4K video decoding and is compatible with popular media servers like Plex, Emby, and Jellyfin.

3.3 Business Backup Solutions (BBS)

The TerraMaster Business Backup Suite (BBS) provides comprehensive data protection.

- **Centralized Backup:** Consolidate data from various sources (Windows, physical servers, file servers).
- **TerraSync:** Synchronize data between servers and PCs.
- **Duple Backup:** Create off-site backups for disaster recovery.
- **CloudSync:** Synchronize data with various cloud storage services.
- **Snapshot:** Protect against ransomware with point-in-time recovery.

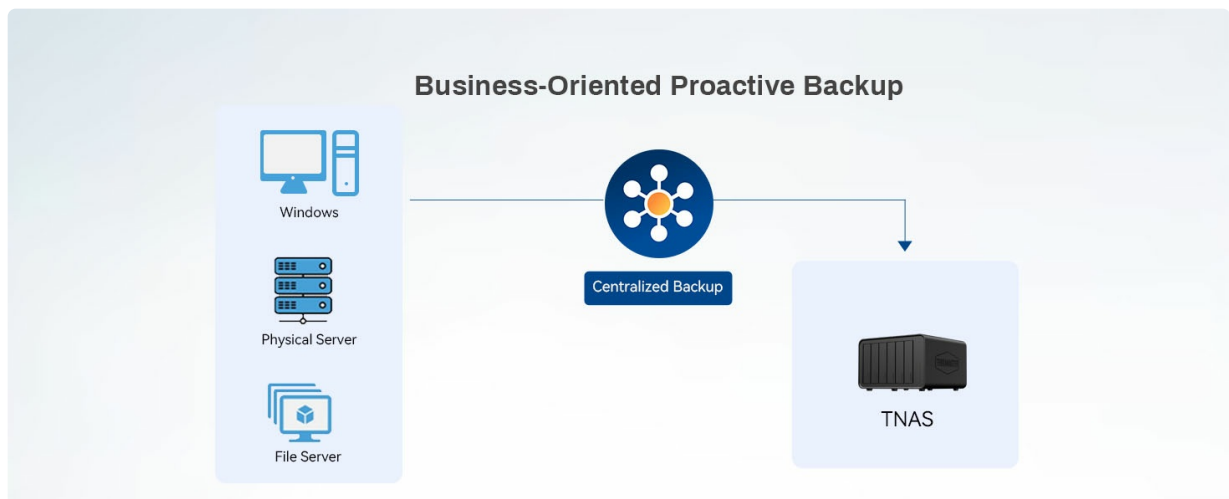


Figure 8: Diagram showing the comprehensive features of the Business Backup Suite (BBS), including centralized backup, Duple Backup, TerraSync, and CloudSync for robust data protection.

3.4 RAID Configuration (TRAID/TRAID+)

The F6-424 supports various RAID types, including TerraMaster's flexible TRAID and TRAID+ for optimized storage and data protection.



System Security Enhanced by 10 Times

Figure 9: Comparison of TRAIID and TRAIID+ with traditional RAID 5 and RAID 6, illustrating how TerraMaster's flexible RAID arrays optimize storage space and redundancy.

4. MAINTENANCE

4.1 Cooling System

The F6-424 is equipped with two smart fans and vents to ensure optimal airflow and heat dissipation, extending the lifespan of the device and its components.

Whisper-Quiet 6Bay NAS

Engineered for 50% less noise

22dB(A)



Figure 10: Internal view highlighting the two smart fans and vents designed for efficient heat dissipation and extended device lifespan.

4.2 Cleaning

Regular cleaning helps maintain performance and longevity.

- Use a soft, dry cloth to wipe the exterior of the NAS.
- Periodically use compressed air to clear dust from the fan vents.
- Ensure the NAS is powered off and unplugged before cleaning.

5. TROUBLESHOOTING

5.1 Common Issues and Solutions

- **NAS not powering on:** Check power cable connections and power outlet. Ensure the power button is fully pressed.
- **NAS not detected on network:** Verify Ethernet cable connection to both the NAS and router/switch. Ensure your network's DHCP server is functioning. Try restarting the NAS and your router.
- **Slow performance:** Check network cable quality (ensure 2.5GbE compatibility). Verify drive health and RAID status. Consider enabling M.2 SSD caching if not already in use.
- **Drive errors/failures:** Check the status indicator lights for specific drive bays. Replace faulty drives as soon as possible to maintain data integrity, especially in RAID configurations.
- **Access issues:** Verify user permissions and network share configurations within the TOS operating system.

6. SPECIFICATIONS

Feature	Detail
Brand	TERRAMASTER
Model Number	F6-424
CPU	N95 Quad-Core 4-thread CPU 3.4GHz (turbo)
RAM	8GB DDR5 4800MHz (upgradable up to 32GB)
Drive Bays	6
M.2 NVMe Slots	2
Ethernet Ports	Dual 2.5GbE
USB Ports	Dual USB 3.2 10Gbps
RAID Support	TRAIID, TRAIID+, RAID 0/1/5/6/10/JBOD/Single
Dimensions (D x W x H)	8.74"D x 9.45"W x 6.06"H
Weight	4.6 Pounds
Compatible Devices	Android, Linux, Mac, Windows, iOS

7. WARRANTY & SUPPORT

7.1 Warranty Information

The TERRAMASTER F6-424 NAS Storage comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For detailed terms and conditions, please refer to the warranty card included with your product or visit the official TERRAMASTER website.

7.2 Technical Support

If you encounter any issues or have questions regarding your TERRAMASTER F6-424 NAS, please utilize the following resources:

- **Online Knowledge Base:** Visit the TERRAMASTER official website for FAQs, tutorials, and troubleshooting guides.
- **Community Forums:** Engage with other TERRAMASTER users and experts for shared solutions and advice.
- **Customer Service:** Contact TERRAMASTER technical support directly via their website's support portal for personalized assistance.