

TerraMaster F2-210

Network Attached Storage Server

Datasheet



TerraMaster F2-210 is a 2-bay affordable NAS optimized for home and SOHO users

Great, Affordable Performance

TerraMaster's F2-210 is equipped with an ARM V8 64-bit quad-core processor, a frequency of up to 1.4 GHz, and a read/write speed reaching 114 MB/s(RAID 0, WD Red 4TB x 2). Its functions include file storage, data backup, cloud synchronization, remote access, 4K HD video transcoding, and many more. The device is suitable for applications ranging from home multimedia entertainment to small office and home office (SOHO) settings. As an affordable device, the F2-210 is only half the price of a NAS with an Intel x86 quad-core processor.

Multiple Layers of Data Security

The F2-210 device relies on the following five data security layers:

1. Schedule automatic backup
2. Remote backup
3. Btrfs file system and snapshots
4. T-RAID array security protection
5. AES Hardware encryption and transport encryption
6. Cloud backup

Enhance the Safety of your Data with a Next-Generation File System

Superior storage technology and optimized snapshot technology are the cornerstones of the Btrfs file system, which is what TerraMaster's F2-210 2-bay NAS unit relies on for advanced data protection, prevention of data corruption, and minimal maintenance expenses. Use of this file system promotes high data integrity, all the while promoting flexibility and efficiency in the areas of data protection and data recovery.

Optimized snapshot technology generates 256 snapshots for every shared folder, and up to 8,192 overall system snapshots. In this way, users can benefit from flexible, storage-saving data protection.

Since data recovery takes place at the file or folder level, businesses can also benefit from enhanced flexibility and efficient data recovery.

4K Ultra HD Video Transcoding

Compatible with the DLNA protocol, TerraMaster's multimedia servers enable users to stream 4K media content from TNAS to multimedia playback devices. The device offers 4K H.264/H.265(max 30fps) live transcoding, along with the opportunity to convert and playback 4K video on computers, smartphones, and media players that lack native support for HD formats.

A Private Space in the Cloud

TNAS offers users the opportunity to establish a personal cloud drive that satisfies their remote access needs. Rights of access can be tailored for your colleagues, relatives, or friends, and with support for two-way sync cloud drive, enjoying the benefits of convenient cloud life has never been easier.

TNAS.online for Simple Remote Access

TNAS.online spares you from setting up DDNS, complicated network settings, and further port forwarding rules when trying to access files on TNAS through the Internet. At no additional expense, the service provides a secure, modifiable URL that you can use to engage with audio and video content, along with other work files, on your Internet-enabled device.

Striving to Satisfy Small Businesses

Small businesses benefit from the opportunity to conveniently 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.

State-of-the-Art TOS 4.0.X Operating System

With the most recent version of the TOS operating system, TOS 4.0.X, you can back up your data, manage your file server, and optimize your sharing services in an intuitive, simple, and user-friendly way. The operating system includes a complex of application software, with rich application content, potent multimedia services, and numerous ways to back up your data

Smart Mobile App

With the TNAS mobile app, quickly access your TNAS device and its multimedia data without restrictions, all simply through your iOS or Android system.

Panel Illustration:



| SN | Item | SN | Item |
|----|------------------------------|----|-----------------------------|
| ① | Hard drive tray | ⑤ | Power interface |
| ② | Hard drive indicator | ⑥ | Network interface |
| ③ | Network indicator | ⑦ | USB 3.0 host interface (×2) |
| ④ | Power switch/Power indicator | | |

Rear Cover Illustration:

| SN | Item | Description |
|----|-------------------|---|
| ⑤ | Power interface | DC 12V power input NOTE: Do not use a third-party power adaptor. |
| ⑥ | Network interface | 1000M/100M bps network interface |
| ⑦ | USB 3.0 host (×2) | Use to connect USB storage device or USB wireless adaptor |

Specifications:

| Hardware | |
|---------------------------------------|--|
| Processor | |
| Processor Model | Realtek RTD1296 |
| Processor Architecture | ARM V8 64-bit |
| Processor Frequency | Quad Core 1.4GHz |
| Hardware Encryption Engine | √ |
| Hardware Transcoding Engine | 10-bit H.265 (HEVC), MPEG-4 Part 2, MPEG-2, VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 30 |
| Memory | |
| System Memory | 1GB |
| Pre-installed Memory module | / |
| Total Memory Slot Number | / |
| Maximum Supported Memory | 1GB |
| 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 |
| Compatible Drive types | 3.5" SATA HDD |
| | 2.5" SATA HDD |
| | 2.5" SATA SSD |
| Maximum Internal Raw Storage Capacity | 28TB (14TB x 2) (Capacity may vary by RAID types) |
| Max Single Volume | 108TB |
| Drive Hot Swap | √ |
| 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 1GbE Network Jack | 1 |

| | |
|-------------------------|--|
| USB 3.0 Port | 2 |
| USB 2.0 Port | / |
| COM | / |
| HDMI | / |
| VGA | / |
| LSI 9207-8i HBA Card | / |
| PCIe Slots | / |
| Appearance | |
| Size (H*W*D) | 227 x 119 x 133 mm |
| Packaging Size (H*W*D) | 258 x 220 x 170 mm |
| Weight | Net Weight: 1.42Kg Gross Weight: 2.53Kg |
| Others | |
| System Fan | 80 mm x 80 mm x25mm 1 pcs |
| Fan Mode | Smart, High speed, Middle speed, Low speed |
| Noise Level | 18.6dB(A) |
| Power Supply | 40W |
| AC Input Voltage | 100V - 240V AC |
| Current Frequency | 50/60 Hz, single frequency |
| Power Consumption | 25.6W |
| | 2.0W (hard drive dormancy) |
| 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) |
| | RJ-45 network cable (x1) |
| | Quick Installation Guide (x1) |
| | Limited Warranty Note(x1) |
| | Screws(a few) |
| | Power adapter (x1) |

| TOS Features | |
|---|--|
| OS Supported | |
| Supported Client OS | Windows OS, Mac OS, Linux OS |
| Supported Web Browsers | Google Chrome 48, Microsoft Internet Explorer 9, Mozilla Firefox 30, Apple Safari 4.5 or later version; Microsoft Edge is not recommended. |
| Supported mobile OS | ios 8.2, Android 5.0 or later version |
| Storage Management | |
| Supported RAID Types | Single, JBOD, RAID 0, RAID 1 |
| Maximum Internal Volume Number | 16 |
| Maximum iSCSI Target | 10 |
| Maximum iSCSI LUN | 10 |
| Volume Expansion with Larger HDDs | RAID 1 |
| Volume Expansion by Adding a HDD | / |
| RAID Migration | √ |
| SSD Cache | √ |
| Hot Spare | √ |
| SSD TRIM | √ |
| Hard Drive S.M.A.R.T. | √ |
| Seagate IHM | √ |
| NVRAM write cache(BBU-protected) | / |
| WORM(Write Once Read Many) | / |
| Shared Folder Snapshot | √ |
| LUN Snapshot | / |
| Storage QoS For Shared Folder | / |
| File Services | |
| File Protocol | SAMBA/AFP/NFS/FTP/WebDAV |
| Maximum Concurrent SAMBA/AFP/FTP Connections | 100 |
| Windows Access Control List (ACL) Integration | √ |
| NFS Kerberos Authentication | √ |
| Account & Shared Folder | |
| Maximum local user's account number | 128 |
| Maximum local group number | 128 |
| Maximum shared folders number | 128 |
| Maximum shared folders syncing tasks | 2 |
| Backup | |

| | |
|--|---|
| Rsync Server | √ |
| Rsync Backup | √ |
| Schedule Backup | √ |
| USB Device Backup | √ |
| Cloud Sync | √ |
| Time Machine Server | √ |
| File System Gluster | / |
| Networking | |
| TCP/IP | IPv4 |
| Protocols | CIFS/SAMBA, NFS, FTP, TFTP, HTTPS, SSH, iSCSI, SNMP, SMTP |
| Link Aggregation | / |
| DLNA Compliance | √ |
| VPN Client | √ |
| VPN Server | √ |
| Proxy Client | √ |
| Proxy Server | / |
| UPnP/Bonjour Discovery | √ |
| TNAS.online Remote Access | √ |
| DDNS | √ |
| Access Right Management | |
| Batch users creation | / |
| Import/Export users | / |
| User Quota Management | √ |
| Local user access control for CIFS/SAMBA and FTP | √ |
| Domain Authentication | |
| Microsoft Active Directory | √ |
| LDAP Client | √ |
| LDAP Server | √ |
| SSO | √ |
| Security | |
| Firewall Protection | √ |
| Account Auto-block Protection | √ |
| AES Volume and Shared Folder Encryption | √ |
| Importable SSL certificate | √ |
| Instant Alert via email, SMS, Beep | √ |

| Power Management | |
|--|--|
| Automatic Power On After Power Recovery | √ |
| Scheduled Power On/Off | √ |
| Wakeup On LAN | / |
| UPS Supported | √ |
| Administration | |
| Multi-window, Multi-task System Management | √ |
| Custom Desktop | √ |
| Control Panel | √ |
| Resource Monitor | √ |
| Syslog | √ |
| OS UI Language | English, German, French, Spanish, Italian, Magyar, Chinese, Japanese, Korean |
| Applications | |
| Application Center | √ |
| Mail Server | √ |
| Web Server | √ |
| Clam Antivirus | √ |
| Download | √ |
| Multi Media Server | √ |
| Docker | √ |
| Plex Media Server | √ |
| Snapshot | √ |

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