



# FlashStation FS2500



## Efficient All-Flash Server for I/O-Intensive Applications

Synology FlashStation FS2500 features 12 bays for 2.5" SATA SSDs in a 1U enclosure. Its compact form factor and processing power make it an ideal solution for I/O-intensive and latency-sensitive applications such as VM storage and email servers in small to medium-size deployments. Powered by Synology DiskStation Manager (DSM), the FS2500 comes with reliable and easy-to-set-up solutions for uptime and data protection.

### Highlights

- **High Performance**  
Handles intensive I/O efficiently with over 170,000/82,000 4K random read/write IOPS<sup>1</sup>
- **Flexible Virtualization Storage**  
Certified support for VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, and OpenStack with Kubernetes CSI driver
- **Convenient Networking Options**  
Built-in dual 10GbE and dual Gigabit Ethernet ports offer easy integration with existing environments
- **Data and Services Protection**  
Back up critical data and cut your recovery time objective with built-in data protection and high availability tools
- **Long-Term Support**  
Backed by Synology's 5-year limited warranty<sup>2</sup>



### Next-Generation File System

*Btrfs is a modern file system designed to safeguard data integrity through metadata mirroring, file self-healing, and fast snapshot replication.*



### Upgrade Your Aging SAN

*Synology systems can integrate with your virtualization platforms and easily replace aging SAN storage arrays in any organization's existing infrastructure.*

## Solid State Storage for Small to Medium-Sized Businesses

The FS2500 is a lightning-fast, cost-effective, and space-saving storage solution for virtual machines, containers, email, and databases.

- Up to 172,552/82,917 4K random read/write IOPS and over 4,700/2,500 MB/s sequential read/write performance support both I/O-intensive applications and large file transfers<sup>1</sup>
- Built-in dual 10GbE and dual 1GbE RJ-45 ports provide fast connectivity options right out of the box, while 10/25/40GbE NIC support lets you add additional bandwidth through PCIe 3.0 expansion cards<sup>3</sup>
- Redundant power supply units and system fans coupled with network ports that support automatic failover prevent single points of hardware failure

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## Certified Virtual Machine and Container Storage

Deploy and facilitate storage operations in [virtualization environments](#) with full certification for VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, and OpenStack. A Kubernetes CSI driver provides integrated volume management.

The FS2500 is ideal as [virtual machine storage](#), but can also serve as an alternative VM host and run Docker containers.

- Manage storage directly from your hypervisor with [Synology Storage Console](#) for VMware or Windows platforms
- Offload storage operations and speed up data transfer using [VMware VAAI integration](#) and [Windows ODX](#)
- Save significant storage space with full [flash volume deduplication](#) when used together with [Synology SSDs](#)
- Protect full VMware® vSphere™ and Microsoft® Hyper-V® deployments with agentless [virtual machine backup](#) in [Synology Active Backup for Business](#)



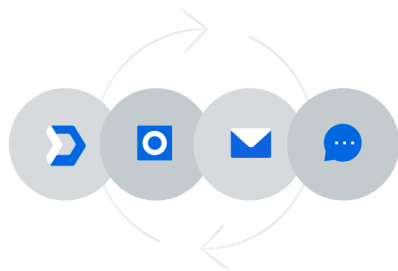
## Synology Backup Solutions

*DSM backup solutions are designed to be low-maintenance and efficient, delivering low RPO and RTO targets and offering a large selection of backup destinations for a variety of workloads.*

## Powerful Data and Uptime Protection Tools

Built-in solutions help maintain high system availability and facilitate fast recovery if a disaster or major outage occurs.

- **Synology High Availability** provides fast failover between two identical FS2500 units to keep services online when disaster strikes
- **Snapshot Replication** provides schedulable, near-instantaneous data protection with version control, ensuring that documents in shared folders and VMs on LUNs remain safe and available
- **Hyper Backup** protects your NAS by backing up data and configurations to multiple destinations with efficiency delivered by built-in deduplication, integrity checks, compression, and versioning
- **C2 Storage for Hyper Backup** offers a dedicated and secure public cloud destination for Synology NAS backup data<sup>4</sup>



## Synology Productivity Suite

*A powerful and secure private cloud solution that lets teams collaborate, sync files, and communicate with others anytime, anywhere.*

## Work and Collaborate From Anywhere

Synology's **productivity suite** provides a private cloud solution for on-site and remote workers to concurrently edit documents, share files, manage emails, send instant messages, and more.

By leveraging private cloud infrastructure, businesses can ensure complete data ownership and multi-layered security.

- **Synology Office** lets multiple users edit, comment on, and share files together using Synology Documents, Spreadsheets, and Slides
- **Synology Drive** is a private cloud file management solution that supports remote data access, synchronization, on-demand file restoration, and backup
- **Synology Chat** brings teams together with one-on-one chats, group chats, and encrypted private channels over multiple platforms
- **Synology MailPlus**<sup>5</sup> provides a secure, reliable, and private email server
- **Synology Calendar** helps teams keep track of what is most important with convenient calendar sharing and scheduling
- **Synology Hybrid Share** combines reliable on-premises storage and efficient syncing of shared folders in the cloud to enable seamless cross-site synchronization and local access at LAN speed<sup>4</sup>



## Synology Has You Covered

*Keep your business running with the technical support services included in Synology's 5-year limited warranty.<sup>2</sup>*

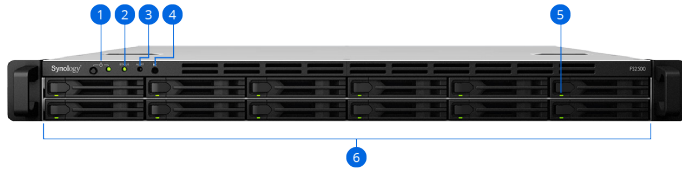
## Backed by Synology's 5-Year Limited Warranty

Maximize your return on investment with the comprehensive hardware replacement and premium technical support services offered under Synology's 5-year limited hardware warranty.<sup>2</sup>

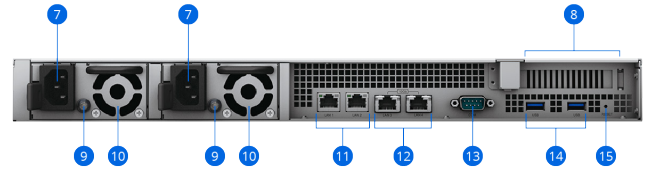
Choose **Synology SSDs** to populate your FlashStation and deal with a single vendor for warranty and support. Benefit from stable performance over time and low-latency data access thanks to rigorous testing and integration.

# Hardware Overview

## Front



## Rear



1	Power Button and Indicator	2	Status Indicator	3	Alert Indicator	4	Beep Off Button
5	Drive Status Indicators	6	Drive Trays	7	Power Ports	8	PCI Express Expansion Slot
9	PSU Indicators and Beep Off Buttons	10	PSU Fans	11	1GbE RJ-45 Ports	12	10GbE RJ-45 Ports
13	Console Port	14	USB 3.2 Gen 1 Ports	15	Reset Button		

# Technical Specifications

## Hardware

CPU	AMD Ryzen™ V1780B quad-core (8-thread) 3.35 GHz, max boost clock up to 3.6 GHz
Hardware encryption	AES-NI
Memory	8 GB DDR4 ECC UDIMM (expandable up to 32 GB)
Compatible drive types	<ul style="list-style-type: none"> <li>12 x 2.5" SATA SSD (drives not included)</li> <li>Only drives listed on the compatibility list can be used to create storage pools<sup>6</sup></li> </ul>
Hot swappable drives	Yes
External ports	2 x USB 3.2 Gen 1 ports
Form factor	Rackmount 1U
Size (HxWxD)	<ul style="list-style-type: none"> <li>44 x 437.5 x 521.9 mm</li> <li>44 x 481.9 x 555.9 mm (with server ears)</li> </ul>
Weight	8.3 kg
LAN ports	<ul style="list-style-type: none"> <li>2 x 1GbE RJ-45</li> <li>2 x 10GbE RJ-45</li> </ul>
Wake on LAN/WAN	Yes (only on 1GbE ports)
PCIe expansion	<ul style="list-style-type: none"> <li>1 x 8 width slot, Gen 3.0 x4 lanes</li> <li>Supports network interface cards<sup>3</sup></li> </ul>
Scheduled power on/off	Yes
System fans	4 x (40 x 40 x 28 mm)
AC input power voltage	100 V to 240 V AC
Power frequency	50/60 Hz, single phase
Operating temperature	0°C to 35°C (32°F to 95°F)
Storage temperature	-20°C to 60°C (-5°F to 140°F)
Relative humidity	5% to 95% RH
Maximum operating altitude	5,000 m (16,400 ft)

## General DSM Specifications

Networking protocols	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, and VPN (PPTP, OpenVPN™, L2TP)
File systems	<ul style="list-style-type: none"><li>• Internal: Btrfs, ext4</li><li>• External: Btrfs, ext4, ext3, FAT32, NTFS, HFS+, exFAT</li></ul>
Supported RAID types	Synology RAID F1, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, and RAID 10
Storage management	<ul style="list-style-type: none"><li>• Max. single volume size: 108 TB/200 TB<sup>7</sup></li><li>• Max. number of system snapshots: 65,536<sup>8</sup></li><li>• Max. number of internal volumes: 256</li></ul>
SSD cache	<ul style="list-style-type: none"><li>• Read/write cache support</li><li>• 2.5" SATA SSD support</li></ul>
File sharing capabilities	<ul style="list-style-type: none"><li>• Maximum local user accounts: 16,000</li><li>• Maximum local groups: 512</li><li>• Maximum shared folders: 512</li><li>• Maximum concurrent SMB/NFS/AFP/FTP connections: 2,000 (8,000 with RAM expansion)<sup>9</sup></li></ul>
Privileges	Windows® Access Control List (ACL) and application privileges
Directory services	Connects with Windows® AD/LDAP servers enabling domain users to login via SMB/NFS/AFP/FTP/File Station using their existing credentials
Virtualization	VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, OpenStack, and Kubernetes
Security	Firewall, shared folder encryption, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, and HTTPS (customizable cipher suite)
Supported browsers	Google Chrome®, Firefox®, Microsoft Edge®, Safari® 13 and later, and Safari (iOS 13.0 and later) on iPad, Chrome (Android™ 11.0 and later) on tablets
Interface languages	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, ไทย, 日本語, 한국어, 繁體中文, 简体中文

## Packages and Applications

### File Server & Synchronization

Drive	Synchronizes files across Windows®, macOS®, Linux®, Android™ and iOS. The built-in cross-platform portal allows access to data anytime and anywhere <ul style="list-style-type: none"><li>• Max. number of hosted files: 50,000,000</li><li>• Max. number of concurrent connections for PC clients: 550</li></ul>
File Station	Provides virtual drives, remote folders, Windows® ACL editor, compression/extraction of archived files, bandwidth control for specific users/groups, creation of sharing links, and transfer logs
Hybrid Share <sup>4</sup>	Efficiently synchronizes files across sites by keeping shared data on Synology C2 Storage and streaming files to Synology NAS worldwide on request. Frequently requested files are cached at each site for low-latency access
FTP Server	Supports bandwidth control for TCP connections, custom FTP passive port ranges, anonymous FTP, FTP over TLS/SSL and SFTP protocols, network booting with TFTP and PXE support, and transfer logs
Presto File Server <sup>10</sup>	Enables high-speed data transfer over WAN through the exclusive SITA technology between Synology NAS and desktop platforms
Cloud Sync	Offers one or two-way synchronization with public cloud storage providers including Alibaba Cloud OSS, Backblaze B2, Baidu Cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, Tencent COS, WebDAV servers and Yandex Disk
Universal Search	Search through files, metadata, and more on your NAS. Integration with Windows Search and macOS Spotlight makes it easy to find files
Migration Assistant	Migrates data, system setting, and applications seamlessly from one Synology NAS to another to ensure maximum service availability

### SAN Storage & Virtualization

SAN Manager	<ul style="list-style-type: none"><li>• Max. number of iSCSI targets: 256</li><li>• Max. number of LUNs: 512</li><li>• LUN Clone/Snapshot, Windows ODX support</li></ul>
Virtual Machine Manager <sup>11</sup>	Supports running Windows®, Linux®, and Virtual DSM-based virtual machines on Synology NAS

### Data Protection & Backup Solution

Hyper Backup	Supports local backup, network backup, and data backup to other servers and public clouds, including C2 Storage
Backup tools	<ul style="list-style-type: none"><li>• DSM configuration backup, macOS® Time Machine® support, Synology Drive Client desktop application</li><li>• Shared folder sync supports a maximum of 32 tasks</li></ul>

Snapshot Replication	<ul style="list-style-type: none"> <li>• Maximum number of snapshots for shared folders: 1,024</li> <li>• Maximum number of replications: 64</li> </ul>
Synology High Availability	Reduces service downtime by combining two identical NAS into a high-availability cluster
Active Backup for Business	An all-in-one backup solution designed for heterogeneous business IT environments. It enables IT admins to remotely manage and protect PCs, servers, and VMs from one centralized console
Active Backup for Google Workspace	Supports backup and restoration of Google Workspace My Drive, Team Drive, Gmail, Contacts, and Calendar
Active Backup for Microsoft 365	Supports backup and restoration of Microsoft 365 OneDrive for Business, Outlook, Contacts, and Calendar

### Productivity & Collaboration

Collaboration tools	<p>Collaborate with instant messaging service Synology Chat, online documents editor Synology Office, and scheduling assistant Synology Calendar</p> <ul style="list-style-type: none"> <li>• Maximum users for Chat: 3,000</li> <li>• Maximum users for Office: 2,900</li> <li>• Calendar supports CalDAV and access via mobile devices</li> </ul>
Note Station	A note taking platform that supports rich text, note organization and versioning, encryption, sharing, media embedding, and attachments
Synology MailPlus Server <sup>5</sup>	A secure, reliable, and private mail solution featuring high-availability, load balancing, security, and filtering options
Synology MailPlus	An intuitive webmail interface for Synology MailPlus Server with configurable mail labels, filters, and user interface

### Surveillance

Surveillance Station <sup>12</sup>	Maximum IP cameras: 100, for a total of 3,000 FPS at 720p (H.264)
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### Management & Administration

Synology Directory Server	Provides a flexible and cost-effective domain controller solution
Central Management System	Provides a single interface to manage and monitor multiple Synology NAS
VPN Server	<ul style="list-style-type: none"> <li>• Maximum connections: 60</li> <li>• Supported VPN protocols: PPTP, OpenVPN™, L2TP/IPSec</li> </ul>
Active Insight	Gain useful intelligence, including health statistics of all NAS deployments across multiple sites and actionable advice to solve any issues, on a centralized cloud-hosted management platform
Storage Analyzer	Displays volume and quota usage, total size of files, volume usage and trends based on past usage, size of shared folders, large files, most recently modified files, and least recently accessed files
Antivirus Essential	Provides full system scans, scheduled scans, white list customization, and auto-update of virus definitions
Web Station	Enables hosting for up to 30 websites with support for PHP/MariaDB® and 3rd-party applications
Other packages	DNS Server, RADIUS Server, and Log Center

### Others

iOS/Android™ applications	Synology Drive, Synology MailPlus, Synology Secure SignIn, Synology Chat, Synology LiveCam, Synology Active Insight, DS cam, DS file, DS finder, and DS note
Other packages	Additional 3rd-party packages are available in the Package Center

### Environment and Packaging

Environment safety	RoHS compliant
Package contents	<ul style="list-style-type: none"> <li>• 1 x FS2500 main unit</li> <li>• 1 x Quick Installation Guide</li> <li>• 1 x Accessory pack</li> <li>• 2 x AC power cord</li> </ul>
Optional accessories <sup>13</sup>	<ul style="list-style-type: none"> <li>• DDR4 ECC UDIMM: D4EU01-8G / D4EU01-16G</li> <li>• 10GbE Network Interface Cards: E10G21-F2 / E10G18-T2 / E10G18-T1</li> <li>• 25GbE Network Interface Card: E25G21-F2</li> <li>• 2.5" SATA SSD: SAT5200 / SAT5210</li> <li>• MailPlus License Pack<sup>5</sup></li> <li>• Surveillance Device License Pack<sup>12</sup></li> <li>• Virtual DSM License Pack<sup>11</sup></li> <li>• Sliding Rail Kit: RKS-01</li> </ul>
Warranty	5 years <sup>2</sup>

Note: Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. Performance figures are obtained through internal testing by Synology. Actual performance may vary depending on the testing environment, usage, and configuration. See [performance charts](#) for more information.
2. The warranty period starts from the date of purchase as stated on your purchase receipt. Visit <https://www.synology.com/company/legal/warranty> for more information.
3. For the most up-to-date list of compatible NICs, please check our [compatibility list](#).

4. C2 Storage for Hyper Backup and Hybrid Share requires purchase of an eligible [annual or monthly subscription](#). A free trial is available for each newly registered device.
5. Five MailPlus email accounts are included. Additional email accounts can be added with the purchase of Synology MailPlus License Packs. [Learn more](#)
6. Check our [compatibility list](#) for supported drives.
7. Volumes up to 108 TB are supported with the default installed memory. Volumes up to 200 TB can be created if the memory is upgraded to 32 GB. [Learn more](#) about maximum volume sizes.
8. System snapshots include snapshots taken by SAN Manager, Snapshot Replication, and Virtual Machine Manager. Availability of these packages varies by model.
9. Maximum concurrent connections can be increased to 8,000 with maximum installed memory of 32 GB RAM.
10. Presto File Server license can be purchased separately through the application.
11. Certain advanced features require [Virtual Machine Manager Pro](#). One Virtual DSM license is included. Additional Virtual DSM instances require the purchase of [Virtual DSM Licenses](#).
12. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. [Learn more](#)
13. Please refer to our [compatibility list](#) for the latest optional accessories list.

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