

# FlashStation FS3400



## All-Flash, Lightning Speed Server For Large-Scale Businesses

FS3400 is a 24-bay all-flash NAS designed to run IO-intensive and latency-sensitive applications, which is perfect for real-time analytics, online-transaction processing, and mission-critical database services. Featuring enhanced endurance of SSD arrays, hassle-free data mirroring, and various virtualization deployments, FS3400 leverages exclusive RAID F1 technology, Synology High Availability, and advanced iSCSI storage, making it an ideal entry-level flash storage. FS3400 is backed by Synology's 5-year limited warranty.

### Highlights

- High-performance all-flash NAS designed for IO-intensive, latency-sensitive applications
- Exclusive Synology RAID F1 technology which effectively boosts system endurance and avoids SSD array data loss
- Advanced iSCSI storage supporting various virtualization deployments including VMware vSphere®, Windows Hyper-V®, Citrix XenServer®, and OpenStack Cinder®
- Intel® Xeon® D-1541 8-Core CPU and 16GB DDR4 ECC RDIMM memory (expandable to 128GB)
- Scalable to 72 drives when connected with 2 Synology Expansion Unit RX2417sas<sup>1</sup>
- Built-in dual 10GbE and quad 1GbE Ethernet ports with failover and Link Aggregation support
- One PCIe 3.0 x8 slot that allows for 25/40GbE network interface card expansion
- Backed by Synology's 5-year limited warranty<sup>2</sup>

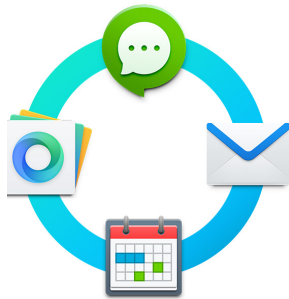
## Scalable, High-Performance All-Flash Storage

Equipped with an Intel® Xeon® 8-core CPU and 16GB DDR4 ECC RDIMM memory (upgradable to 128GB), FS3400 delivers more than 137,000 iSCSI 4K random write IOPS in an aggregated 10GbE environment.<sup>3</sup> With built-in dual 10GbE and quad 1GbE Ethernet ports to provide fast data transmission bandwidth, one PCIe 3.0 slot for additional 25G/40G network interface card expansion, an enlargeable storage for up to 72 drives with various SAS and SATA SSD support, FS3400 delivers optimal performance, and is a highly configurable and affordable all-flash server solution for businesses of all sizes.

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## A Powerful Collaboration Solution

Utilize the collaboration suites on your FS3400 to build a private cloud, enhance teamwork, and boost productivity.



### Synology Collaboration Suite

*A powerful and secure private cloud solution for business collaboration and organization, offering intuitive and effective management options.*

- **Synology Drive** allows you to access the data and files on your FS3400 through a unified portal helps achieve data synchronization across platforms. You can also install the online editor **Synology Office** and collaborate with others on **documents, spreadsheets, and slides**.
  - **Synology MailPlus** allows businesses to set up private and reliable mail servers with its high-availability design. It gives your employees an intuitive web-based client to manage emails and boost productivity.
  - **Synology Calendar** enables you to manage team schedules and organize daily tasks effortlessly. Event information can also be synced to your CalDAV clients, allowing you to check schedules anywhere and anytime.
  - **Synology Chat** is a web-based application that allows you to start instant and safe conversations, and optimizes internal conversations within companies with its powerful information management and interaction features.
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## Effortless Virtualization Deployment



### Virtual Machine Manager

*Virtual Machine Manager implements various virtualization solutions, allowing you to manage multiple virtual machines on your FS3400, including Windows, Linux, and Virtual DSM.*

Synology's **Virtual Machine Manager** adds boundless capabilities to your NAS. You can set up and run various virtual machines including **Windows, Linux, and Virtual DSM** on your NAS to test new software versions in a sandbox environment, isolate your customers' machines, and increase the flexibility of your FS3400 with reduced hardware deployment and maintenance costs. **Synology iSCSI storage** fully supports most virtualization solutions to enhance work efficiency with a simple management interface. **VMware vSphere™ 6.5 and VAAI integration** helps offload storage operations and optimizes computational efficiency. While **Windows Offloaded Data Transfer (ODX)** speeds up data transfer and migration rates, the support for **OpenStack Cinder** transforms your FS3400 into a block-based storage component.

## Ultimate Backup Solution

FS3400 integrates various backup applications to safeguard your important data on all devices with an intuitive user interface and durable storage technologies.



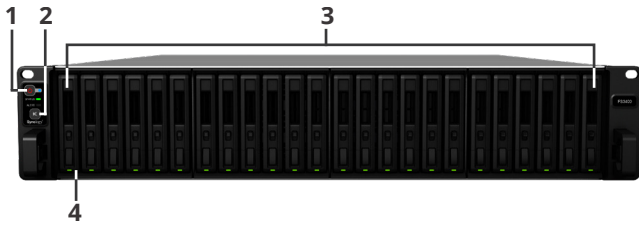
### Synology Active Backup Suite

*Integrated, modern, and license-free backup & instant recovery solution for business workloads in physical, virtual, and cloud environments.*

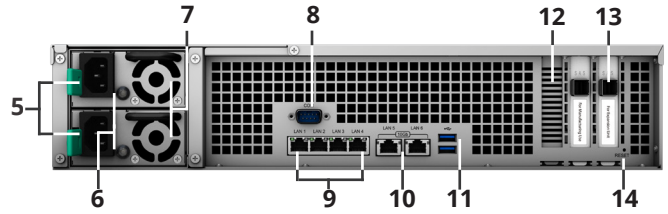
- Workstation/Server/Virtual Machine Backup: **Active Backup for Business** centralizes backup tasks for virtual machines, Windows PC, servers, and rsync/SMB file servers. Fast and reliable recovery options ensure running services, VMs, and files can be instantly available when needed.
- SaaS backup: **Active Backup for Office 365/G Suite** is an on-premise backup solution for public clouds with a centralized dashboard, which optimizes storage efficiency through the single instancing and block-level deduplication technology.
- NAS backup: **Hyper Backup** comprehensively backs up your data to a local shared folder, an external device, another Synology NAS, an rsync server, or a public cloud service to ensure data safety.
- Computer backup: **Synology Drive Client** backs up your Windows, Mac, and Linux desktop devices to safeguard important computer files. FS3400 is also compatible with Time Machine, allowing you to effortlessly back up your Mac to Synology NAS.
- Highly integrated backup solution: **Synology C2 Backup** is a public cloud service powered by Synology. By using Hyper Backup to back up your data on Synology Cloud2 (Synology C2), data safety and availability can be ensured when a disaster happens.

# Hardware Overview

Front



Rear



1	Power button and indicator	2	Beep off button	3	Drive tray	4	Drive status indicator
5	Power port	6	PSU indicator and beep off button	7	PSU fan	8	Console port
9	1GbE RJ-45 port	10	10GbE RJ-45 (10GBase-T) port	11	USB 3.0 port	12	PCIe expansion slot
13	Expansion port	14	Reset button				

## Technical Specifications

### Hardware

CPU	Intel® Xeon® D-1541 8-core 2.1GHz, Turbo Boost up to 2.7GHz
Hardware encryption engine	Yes (AES-NI)
Memory	16 GB DDR4 ECC RDIMM (expandable up to 128 GB)
Compatible drive type	24 x 2.5" SAS SSD/HDD or SATA SSD (drives not included)
Hot swappable drive	Yes
External port	<ul style="list-style-type: none"> <li>• 2 x USB 3.0 port</li> <li>• 1 x Expansion port</li> </ul>
Dimensions (HxWxD)	<ul style="list-style-type: none"> <li>• 88 x 430.5 x 692 mm</li> <li>• 88 x 482 x 724 mm (with server ears)</li> </ul>
Weight	14.9 kg
LAN	<ul style="list-style-type: none"> <li>• 2 x 10GbE RJ-45 (10GBASE-T)</li> <li>• 4 x Gigabit RJ-45</li> </ul>
Wake on LAN/WAN	Yes
PCIe 3.0 slot	<ul style="list-style-type: none"> <li>• 1 x 8-lane x8 slot</li> <li>• High-performance network interface card support</li> </ul>
Scheduled power on/off	Yes
System fan	4 (80 x 80 x 32 mm)
AC input power voltage	100V to 240V AC
Power frequency	50/60Hz, 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 Specification

Networking protocol	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP)
File system	<ul style="list-style-type: none"> <li>Internal: Btrfs, ext4</li> <li>External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT<sup>4</sup></li> </ul>
Supported RAID type	Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, Synology RAID F1
Storage management	<ul style="list-style-type: none"> <li>Maximum single volume size: 108TB/200TB (at least 32 GB RAM required, for RAID 5 or RAID 6 groups only)</li> <li>Maximum system snapshots: 65,536<sup>5</sup></li> <li>Maximum internal volumes: 256</li> </ul>
SSD cache	Read/write cache support
File sharing capability	<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: 4,000</li> </ul>
Privilege	Windows Access Control List (ACL), application privilege
Directory service	Windows® AD integration: Domain users login via SMB/NFS/AFP/FTP/File Station, LDAP integration
Virtualization	VMware vSphere® 6.5, Microsoft Hyper-V®, Citrix®, OpenStack®
Security	Firewall, encryption shared folder, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTPS (customizable cipher suite)
Supported client	Windows 7 onwards, Mac OS X® 10.11 onwards
Supported browser	Chrome®, Firefox®, Edge®, Internet Explorer® 10 onwards, Safari® 10 onwards; Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards) on tablets
Interface language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, ภาษาไทย, 日本語, 한국어, 繁體中文, 简体中文

## Packages and Applications

File Server & Synchronization	
Synology Drive	Provides a universal portal to synchronize files across various platforms, including Windows, macOS, Linux, Android and iOS. <ul style="list-style-type: none"> <li>Maximum hosted files: 5,000,000</li> <li>Maximum concurrent connections for PC clients: 2,000</li> </ul>
File Station	Virtual drive, remote folder, Windows ACL editor, compressing/extracting archived files, bandwidth control for specific users or groups, creating sharing links, transfer logs
FTP Server	Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocol, boot over the network with TFTP and PXE support, transfer logs
Presto File Server <sup>6</sup>	High-speed data transfer over WAN with exclusive SITA technology between Synology NAS and desktop
Cloud Sync	One or two-way synchronization with public cloud storage providers, including Alibaba Cloud OSS, Amazon Drive, Amazon S3-compatible storage, Backblaze B2, Baidu Cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, Tencent COS, WebDAV servers, Yandex Disk
Universal Search	Offers global searches for applications and files
iSCSI Storage & Virtualization	
iSCSI Manager	<ul style="list-style-type: none"> <li>Maximum iSCSI targets: 256</li> <li>Maximum iSCSI LUNs: 512</li> <li>Supports iSCSI LUN clone/snapshot</li> </ul>
Virtual Machine Manager	Multiple virtual machines deployable, including Windows, Linux, or Virtual DSM
Data Protection & Backup Solution	
Hyper Backup	Supports local backup, network backup, and backup data to public clouds
Backup tools	DSM configuration backup, macOS Time Machine support, Synology Drive Client desktop application Shared folder sync - maximum task numbers: 32
Snapshot Replication	<ul style="list-style-type: none"> <li>Maximum shared folder snapshots: 1,024</li> <li>Maximum replications: 64</li> </ul>
Synology High Availability	Reduces service downtime by setting up two identical NAS into one high-availability cluster
Active Backup for G Suite	Supports G Suite My Drive and Team Drive backup and restoration
Active Backup for Office 365	Supports Office 365 OneDrive for Business, mail, contacts, and calendar backup and restoration
Active Backup for Business	All-in-one backup solution designed for heterogeneous business IT environments that enables IT admins to remotely manage and monitor protection over PC, servers, and VM on one centralized console

## Productivity & Collaboration

<b>Collaboration tools</b>	Supports collaboration with instant message service Synology Chat, online editor Synology Office, and scheduling assistant Synology Calendar <ul style="list-style-type: none"><li>• Maximum Chat users: 6,000</li><li>• Maximum Office users: 3,400</li><li>• Calender: Supports CalDAV and access via mobile devices</li></ul>
<b>Note Station</b>	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments
<b>Synology MailPlus Server</b>	Secure, reliable, and private mail solution with high-availability, load balancing, security and filtering design (Including 5 free email account licenses. Additional accounts require the purchasing of additional licenses)
<b>Synology MailPlus</b>	Intuitive webmail interface for MailPlus Server, customizable mail labels, filters, and user interface

## Surveillance

<b>Surveillance Station</b>	Maximum IP cameras: 100 (total of 3,000 FPS at 720p, H.264) (Including two free camera licenses. Additional cameras require the purchasing of additional licenses)
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## All-in-One Server

<b>Synology Directory Server</b>	Provides a flexible and cost-effective domain controller solution
<b>Central Management System</b>	Provides a single interface to manage and monitor multiple Synology NAS models
<b>VPN Server</b>	Maximum connections: 40, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec
<b>Mail Server</b>	Supported Mail Server Protocols: POP3, SMTP, IMAP, Support LDAP/AD account
<b>Mail Station</b>	Webmail interface for Mail Server to receive emails from multiple POP3 mailboxes, customizable SMTP server
<b>Web Station</b>	Virtual host (up to 30 websites), PHP/MariaDB®, third-party applications support
<b>Other packages</b>	DNS Server, RADIUS Server, Log Center

## Others

<b>Storage Analyzer</b>	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, least recently accessed files
<b>Antivirus Essential</b>	Full system scan, scheduled scan, white list customization, virus definition auto update
<b>Security Advisor</b>	Malware detection/removal, user account/password, network, system-related security scan
<b>Other packages</b>	Additional 3rd-party packages available in Package Center

## Environment and Packaging

<b>Environment safety</b>	RoHS compliant
<b>Package content</b>	<ul style="list-style-type: none"><li>• FS3400 main unit x 1</li><li>• Quick Installation Guide x 1</li><li>• Accessory pack x 1</li><li>• AC power cord x 2</li></ul>
<b>Optional accessories</b>	<ul style="list-style-type: none"><li>• 16GB/32GB DDR4-2666 ECC RDIMM (D4RD-2666-16G/D4RD-2666-32G)</li><li>• Synology E10G17-F2/E10G18-T1/E10G18-T2 10Gbps Ethernet adapters</li><li>• Synology Expansion Unit RX1217sas/RX2417sas</li><li>• VisualStation VS360HD, VS960HD</li><li>• Surveillance Device License Pack</li><li>• Synology MailPlus License Pack</li><li>• Virtual DSM License Pack</li></ul>
<b>Warranty</b>	5 years <sup>2</sup>

\*Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for most up-to-date information.

1. FS3400 can scale up to 72 drives with 2 x RX2417sas or 48 drives with 2 x RX1217sas. The Expansion Units are sold separately.
2. The warranty period starts from the purchase date as stated on your purchase receipt. Visit <https://www.synology.com/company/legal/warranty> for more information.
3. Performance figures may vary depending on the environment, usage, and configuration.
4. exFAT Access is sold separately in Package Center.
5. System snapshot includes snapshots taken by iSCSI Manager, Snapshot Replication, and Virtual Machine Manager. The availability of the listed packages may vary by model.
6. Presto File Server License is sold separately in Package Center.

## SYNOLOGY INC.

Synology creates network-attached storage, IP surveillance solutions, and network equipment that transform the way users manage data, conduct surveillance, and manage networks in the cloud era. By taking full advantage of the latest technologies, Synology aims to help users centralize data storage and backup, share files on-the-go, implement professional surveillance solutions, and manage networks in reliable and affordable ways. Synology is committed to delivering products with forward-thinking features and the best in class customer services.

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