

FlashStation FS3600



Accelerate Your Business with an Affordable All-Flash Solution

FS3600 is a 24-bay all-flash server for enterprises to boost the performance of I/O sensitive applications such as database, virtual machines, or OLTP, with a competitive TCO. Powered by Synology's award-winning DiskStation Manager (DSM) operating system, FS3600 makes data management tasks efficient and simple from a single pane of glass. The feature-rich, integrated data protection mechanisms can further ensure service availability.

Highlights

- **High Performance**
Over 193,000 iSCSI 4K random write IOPS¹
- **Competitive TCO**
Affordable all-flash solution with a cost per Gigabyte ratio at \$0.23/GB²
- **Simplify IT Operation**
Easy to deploy with an intuitive user interface
- **Easy Capacity Expansion**
Scale up to 72 2.5" drives for over 500 TB³
- **Ready to Go Virtualized**
Integrates with mainstream virtualization environments with no hidden cost
- **Protect and Restore Data in a Snap**
Safeguard critical data and reduce RTO with Snapshot Replication
- **Enhance SSD RAID Resiliency**
Exclusive Synology RAID F1 technology eliminates the risk of simultaneous SSD failure
- **Accelerate Business Productivity**
Build an on-premises, multi-user collaboration environment with fined-grained control

Fast, Scalable, and Affordable

FS3600 is an all-flash data management solution delivering more than **193,000 iSCSI 4K random write IOPS**¹, ideal for enterprises pursuing a high-speed infrastructure that responds fast under I/O intensive workloads, such as database, virtual machines, or OLTP applications. FS3600 is **10GbE-ready** and can be easily integrated to businesses' existing LAN environment, with a competitive cost per Gigabyte ratio at \$0.23/GB².

Powered by **Synology DiskStation Manager (DSM)**, an award-winning and web-based operating system, FS3600 provides an intuitive graphical user interface for IT administrators to manage and monitor system resource easily and efficiently. FS3600 supports easy storage capacity expansion with Synology Expansion Unit **RX1217sas/RX2417sas**³, with no need to remove existing data or install additional management software.

Built for Your SAN Storage Needs

Synology FS3600 provides a fully certified virtualization solution with **VMware® vSphere™**, **Microsoft® Hyper-V®**, **Citrix® XenServer™**, and **OpenStack Cinder**. It supports both **iSCSI** and **NFS** protocols and integrates with **VMware VAAI** and **Microsoft ODX**, allowing IT administrators to effectively deploy and facilitate storage operations in various virtualization environments. IT administrators can efficiently manage virtualized workloads through built-in DSM features and add-on plugins for VMware and Windows environments. Features including **fast clone**, **NFS v4.1**, and **thin provisioning** deliver more flexibility to accommodate to administration needs.

With no additional license fees required, your virtualized workload can be further protected by a complete suite of data protection applications including **Synology Snapshot Replication**, **Hyper Backup**, **Active Backup for Business** and **Synology High Availability** to cover various protection scenarios.

Virtualize Workloads Flexibly in a Protected Environment

Synology Virtual Machine Manager (VMM) is an intuitive hypervisor software application allowing you to easily set up virtual machines and run various operating systems, including **Windows**, **Linux** and **Virtual DSM**. Besides, you can build up a cluster environment with multiple Synology systems while keeping the flexibility to scale out online and migrate virtual machines for load balancing and resource allocation. Each virtual machines can also be fully protected by a set of disaster recovery features including instant snapshot, replication, clone, restore and failover, safeguarding your digital assets with no additional cost.

With **VMM Pro** license, you can further utilize the advanced features of remote replication, remote storage migration, high availability and live migration, minimizing the risk of service downtime and managing IT resources agilely.

Trustworthy Service Continuity

Service continuity is critical for modern businesses. FS3600 brings thoughtful software and hardware integration to ensure high standard system availability if a disaster or any major outage occurs.

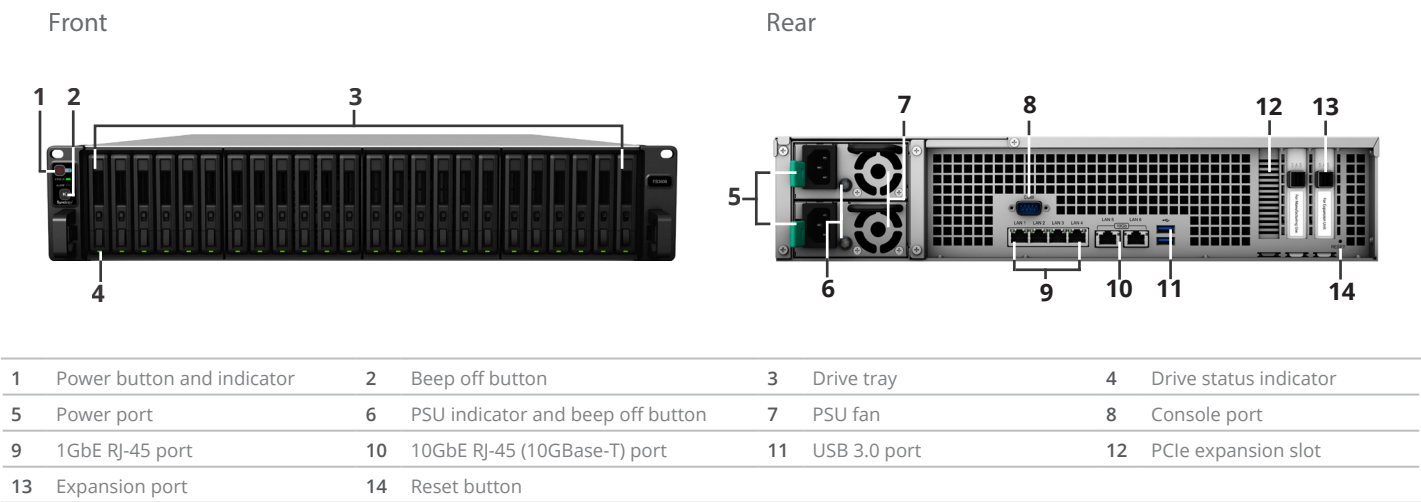
- **Synology High Availability** provides fast transitions between clustered servers to keep services online.
 - **Snapshot Replication** provides schedulable, near-instantaneous data protection with version control, ensuring documents in shared folders and VMs in iSCSI LUNs remain safe and available.
 - **Synology RAID F1** technology introduces patented algorithms to prevent the risk of simultaneously SSD failure.
 - Redundant components, including power supply units, system fans, and network ports support automatic failover to prevent single points of hardware failure.
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On-Premises Collaboration Solution

FS3600 comes with **Synology Collaboration Suite**, a web-based productivity application to benefit team cooperation. Administrators can utilize the advantage of private cloud to provide fine-grained control of data and workloads and prevent accidental data leakage.

- **Synology Drive** introduces a free and unified web portal to allow cross-platform data synchronization and backup. **Intelliversioning** saves historical copies with minimum storage space occupied and supports on-demand data restoration.
- **Synology Office**, integrated with **Documents**, **Spreadsheets**, and **Slides**, provides a well-rounded collaboration environment to allow multiple users to simultaneously edit, comment, and share company data - with no license fee needed.
- Set up a reliable mail server with **Synology MailPlus**, which introduces high-availability design and an intuitive web-based client to manage emails and increase productivity.
- Start conversations instantly and safely with **Synology Chat** and optimize team communications with its powerful features, such as message encryption, pinning, forwarding, reminders, and scheduling, etc.

Hardware Overview



Technical Specifications

Hardware

CPU	Intel® Xeon® D-1567 12-core 2.1 GHz, Turbo Boost up to 2.7 GHz
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">2 x USB 3.0 port1 x Expansion port
Dimensions (HxWxD)	<ul style="list-style-type: none">88 x 430.5 x 692 mm88 x 482 x 724 mm (with server ears)
Weight	14.9 kg
LAN	<ul style="list-style-type: none">2 x 10GbE RJ-45 (10GBASE-T)4 x Gigabit RJ-45
Wake on LAN/WAN	Yes
PCIe 3.0 slot	<ul style="list-style-type: none">1 x 8-lane x8 slotHigh-performance network interface card support
Scheduled power on/off	Yes
System fan	4 (80 x 80 x 32 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 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"> Internal: Btrfs, ext4 External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT⁴
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"> Maximum single volume size: 108 TB/200 TB (at least 32 GB RAM required, for RAID 5 or RAID 6 groups only) Maximum system snapshots: 65,536⁵ Maximum internal volumes: 256
SSD cache	Read/write cache support
File sharing capability	<ul style="list-style-type: none"> Maximum local user accounts: 16,000 Maximum local groups: 512 Maximum shared folders: 512 Maximum concurrent SMB/NFS/AFP/FTP connections: 4,000
Privilege	Windows Access Control List (ACL), application privileges
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, shared folder encryption, 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, ไทย, 日本語, 한국어, 繁體中文, 简体中文

Packages and Applications

File Server & Synchronization

Synology Drive	Provide a universal portal to synchronize your files across various platforms, including Windows, macOS, Linux, Android and iOS. The built-in universal portal allows you to access data anytime and anywhere. <ul style="list-style-type: none"> Maximum hosted files: 5,000,000 Maximum concurrent connections for PC clients: 2,000
File Station	Virtual drives, remote folders, 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 ⁶	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	Offer global search into applications and files

iSCSI Storage & Virtualization

iSCSI Manager	<ul style="list-style-type: none"> Maximum iSCSI target: 256 Maximum iSCSI LUN: 512 iSCSI LUN clone/snapshot support
Virtual Machine Manager	Deploy and run various virtual machines on Synology NAS, including Windows, Linux, or Virtual DSM

Data Protection & Backup Solution

Hyper Backup	Support local backup, network backup, and data backup to public clouds
Backup tools	DSM configuration backup, macOS Time Machine support, Synology Drive Client desktop application Shared folder sync - maximum task number: 32
Snapshot Replication	<ul style="list-style-type: none"> Maximum of shared folder snapshots: 1,024 Maximum of Replication: 64
Synology High Availability	Reduce service downtime by setting up two identical NAS into one high-availability cluster
Active Backup for G Suite	Support G Suite My Drive and Team Drive backup and restoration
Active Backup for Office 365	Support 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 environment, enabling IT admins to remotely manage and monitor protection over PC, servers, and VM on one centralized console

Productivity & Collaboration	
Collaboration tools	Collaborate with instant message service Synology Chat, online editor Synology Office, and scheduling assistant Synology Calendar <ul style="list-style-type: none"> • Chat maximum user: 6,000 • Office maximum user: 3,400 • Calendar: support CalDAV and access via mobile devices
Note Station	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments
Synology MailPlus Server	Secure, reliable, and private mail solution with high-availability, load balancing, security and filtering design (includes 5 free email account licenses; additional accounts require the purchasing of additional licenses)
Synology MailPlus	Intuitive webmail interface for Synology MailPlus Server, customizable mail labels, filters, and user interface
Surveillance	
Surveillance Station	Maximum IP camera: 128 (total of 3,840 FPS at 720p, H.264) (including two free camera licenses; additional cameras require the purchasing of additional licenses)
All-in-One Server	
Synology Directory Server	Provide a flexible and cost-effective domain controller solution
Central Management System	Provide a single interface to manage and monitor multiple Synology NAS
VPN Server	Maximum connection: 40, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec
Mail Server	Supported Mail Server protocol: POP3, SMTP, IMAP, support LDAP/AD account
Mail Station	Webmail interface for Mail Server to receive emails from multiple POP3 mailboxes, customizable SMTP server
Web Station	Virtual host (up to 30 websites), PHP/MariaDB®, third-party applications support
Other packages	DNS Server, RADIUS Server, Log Center
Others	
Storage Analyzer	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
Antivirus Essential	Full system scan, scheduled scan, white list customization, virus definition auto update
Security Advisor	Malware detection/removal, user account/password, network, system-related security scan
Other packages	Additional 3rd-party packages available on Package Center
Environment and Packaging	
Environment safety	RoHS compliant
Package content	<ul style="list-style-type: none"> • FS3600 main unit x 1 • Quick Installation Guide x 1 • Accessory pack x 1 • AC power cord x 2
Optional accessories ⁷	<ul style="list-style-type: none"> • 16 GB/32 GB DDR4-2666 ECC RDIMM (D4RD-2666-16G⁸/D4RD-2666-32G) • Synology E10G17-F2/E10G18-T1/E10G18-T2 10Gbps Ethernet adapters • Synology Expansion Unit RX1217sas/RX2417sas • Synology VisualStation VS360HD, VS960HD • Surveillance Device License Pack • Synology MailPlus License Pack • Virtual DSM License Pack
Warranty	5 years ⁹

*Model specifications are subject to change without notice. Please refer to www.synology.com for latest information.

1. Performance figures may vary depending on the environment, usage, and configuration.
2. The cost per Gigabyte ratio is estimated based on one FS3600 with 24 x 3.84 TB SATA SSD. The cost of the drives may vary depending on the manufacturer or the reseller.
3. FS3600 can scale up to 72 drives with 2 x RX2417sas or 48 drives with 2 x RX1217sas. The Expansion Units are sold separately.
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.
7. Please refer to www.synology.com/compatibility for the latest optional accessory list.
8. It is required to use D4RD-2666-16G with identical memory modules of the same capacity and frequency.
9. 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.

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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