

DiskStation

DS1618+



Synology DiskStation DS1618+ is 6-bay NAS with powerful CPU processor, designed for businesses seeking compact, yet efficient storage solution for versatile advanced computing applications. Supercharge your storage with the optional M.2 SSD adapter card for dual SSD cache drives, DS1618+ is idea to serve as a centralized file server for simplifying data management and protecting critical assets. Synology DS1618+ is backed with Synology's 3-year limited warranty.

High-Performance Scalable Storage Server

Synology DS1618+ is a 6-bay network attached storage solution with great performance and scalability. DS1618+ supports up to 16 drives with two Synology **DX517³** expansion units, allowing you to start small and easily scale up on demand. In addition to 10GbE add-on cards, which can upgrade the network capacity of DS1618+, the PCIe slot also can be installed with the optional **PCIe M.2 SSD adapter card M2D18²** supporting not only **SATA** but **NVMe** interfaces **dual M.2 SSD slot** to function as SSD cache for greatly enhanced storage performance without using the 3.5" drive bays.

DS1618+ is equipped with a **quad-core** processor and **4GB DDR4 memory (expandable up to 32GB)**. With Link Aggregation enabled, DS1618+ delivers outstanding sequential throughput performance at over **1,550 MB/s reading** and **580 MB/s writing¹**

Cross-Platform File Sharing and Data Synchronization

DS1618+ can serve as a centralized backup destination, providing large storage capacity with affordable cost of ownership. Large amount of data scattered on employees' workstations can be easily backed up and synced to a centralized target on DS1618+. **Cloud Sync** keeps your Dropbox, Google Drive, Microsoft OneDrive, Baidu, and Box storage in sync with DS1618+. **Cloud Station Suite** allows you to effortlessly sync files across multiple devices, including Windows, macOS, Linux, and Android or iOS mobile devices.

With block-level incremental backup and cross-version deduplication, Synology **Hyper Backup** provides multi-version backup with optimized storage utilization and allows for backing up to multiple destinations—local shared folders, external hard drives, network shared folders, rsync servers, and public cloud services.

Highlights

- Powerful and scalable 6-bay NAS optimized for data-intensive tasks in small and medium businesses
- Quad-core, 2.1 GHz CPU with AES-NI support and 4GB DDR4 memory, expandable up to 32GB
- Outstanding performance at over 1550 MB/s reading and 580 MB/s writing¹
- Boost IOPS system performance with optional M.2 SSD cache by using a M2D18 adapter card²
- PCIe 3.0 slot for optional 10GbE add-on card and four built-in 1GbE (RJ-45) ports with failover and Link Aggregation support.
- Advanced Btrfs file system offering 65,000 system-wide snapshots and 1,024 snapshots per shared folder
- Scale up to 16 drives with two DX517³ expansion units

Effortless Virtualization Environment

Synology's **Virtual Machine Manager** adds unlimited capabilities to your NAS. Set up and run various virtual machines, including **Windows**, **Linux**, and **Virtual DSM** so that you can test new software versions in a sandbox environment, isolate your customers' machines, and increase the flexibility of your DS1618+ 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 computation efficiency. **Windows Offloaded Data Transfer (ODX)** speeds up data transfer and migration rates, while **OpenStack Cinder** support turns your Synology NAS into a block-based storage component.

Powerful Collaboration

Synology Drive unifies multiple file portals on Synology NAS and greatly simplifies data management by synchronizing files across various platforms. To fulfill your need for office collaboration, Drive also provides seamless sharing features to ensure that you do not lose important files.

With **Synology Office, Calendar and Chat**, the Collaboration Suite allows secure and efficient private communications as well as content organization that your business can easily manage and control.

Btrfs: Next Generation Storage Efficiency

DS1618+ introduces the **Btrfs file system**, bringing the most advanced storage technologies to meet the management needs of modern businesses:

- **Built-in data integrity check** detects data and file system corruption with data and meta-data checksums and improves the overall stability.
- **Flexible Shared Folder/User Quota System** provides comprehensive quota control over all user accounts and shared folders.
- **Advanced snapshot technology** with customizable backup schedule allows up to **1,024 copies** of shared folder backups in a minimum **5-minute interval** without occupying huge storage capacity and system resources.
- **File or folder level data restoration** brings huge conveniences and saves time for users who wish to restore only a specific file or folder.
- **File self-healing:** Btrfs file system can auto-detect corrupted files with mirrored metadata, and recover broken data using the supported RAID volumes, which include RAID1, 5, 6, and 10.

Reliability, Availability & Disaster Recovery

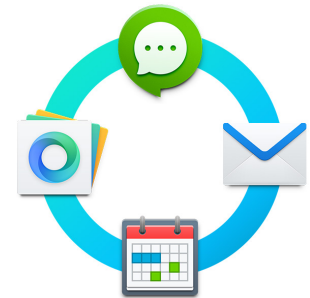
System reliability is of paramount importance to businesses which depend upon their commercial servers every day. DS1618+ responds to these concerns with wide-ranging availability and redundancy features:

- **Synology High Availability Manager** ensures seamless transitioning between clustered servers with minimal impact to applications, preventing unexpected interruptions and costly downtime.
- **Redundant power supplies, system fans** and **network ports** with failover support ensure maximum continuous service uptime.
- High reliability system design including **fan-less CPU heat-sink** and passive cooling technology, preventing single points of failure.
- **Optional 5-year warranty⁴** is available in select regions.



Virtual Machine Manager

Virtual Machine Manager implements various virtualization solutions, allowing you to manage multiple virtual machines on your DS1618x+, including **Windows**, **Linux**, and **Virtual DSM**.



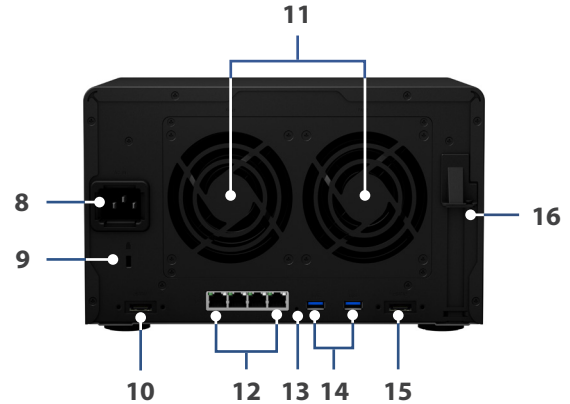
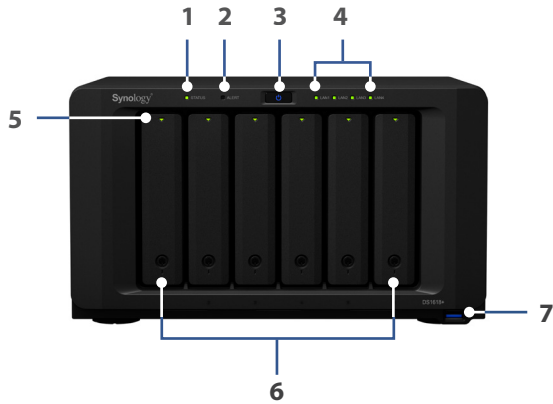
Synology Collaboration Suite

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

Hardware Overview

Front

Rear



1	Status indicator	2	Alert indicator	3	Power button	4	LAN indicator
5	Drive status indicator	6	Drive tray	7	USB 3.0 port	8	Power port
9	Kensington Security Slot	10	eSATA port	11	Fan	12	1GbE RJ-45 port
13	RESET button	14	USB 3.0 port	15	eSATA port	16	PCIe expansion slot

Technical Specifications

Hardware

CPU	Intel Atom C3538 quad-core 2.1GHz
Hardware encryption engine	Yes (AES-NI)
Memory	4 GB DDR4-2133 SO-DIMM (expandable up to 32 GB with 16 GB SO-DIMM x 2)
Compatible drive type	<ul style="list-style-type: none"> • 6 x 3.5" or 2.5" SATA SSD/HDD (drives not included) • 2 x M.2 2280/2260/2242 SSD³ (drives not included)
External port	<ul style="list-style-type: none"> • 3 x USB 3.0 port • 2 x Expansion port
Size (HxWxD)	<ul style="list-style-type: none"> • 166 x 282 x 236 mm • 166 x 282 x 243 mm (with server ears)
Weight	5.05 kg
LAN	4 x 1GbE (RJ-45)
Wake on LAN/WAN	Yes
PCIe 3.0 slot	<ul style="list-style-type: none"> • x8 slot x 1 (4-lane) • 10GbE network interface cards support • M.2 SSD adapter card support
Scheduled power on/off	Yes
System fan	2 (92 x 92 x 32 mm)
AC input power voltage	100V to 240V AC
Power frequency	50/60Hz, single phase
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-20°C to 60°C (-5°F to 140°F)
Relative humidity	5% to 95% RH
Maximum operating altitude	3,048 m (10,400 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, ext4External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT⁵
Supported RAID type	Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Storage management	<ul style="list-style-type: none">Maximum single volume size: 108 TBMaximum of system snapshots: 65,536⁶Maximum internal volumes: 512Maximum iSCSI targets: 32Maximum iSCSI LUNs: 256iSCSI LUN clone/snapshot support
SSD cache	<ul style="list-style-type: none">Read-write cache supportM.2 SSD support
File sharing capability	<ul style="list-style-type: none">Maximum local user accounts: 2,048Maximum local groups: 256Maximum shared folders: 512Maximum concurrent SMB/NFS/AFP/FTP connections: 1,000
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, encrypted 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 and 10, Mac OS X® 10.11 onwards
Supported browser	Chrome®, Firefox®, Internet Explorer® 10 onwards, Safari® 10 onwards; Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards)
Interface Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

Packages and Applications

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
Universal Search	Offer global search into applications and files
Hyper Backup	Support local backup, network backup, and backup data to public clouds
Active Backup for Server	Centralize data backup for Windows and Linux servers without client installation
Backup tools	DSM configuration backup, macOS Time Machine support, Cloud Station Backup Shared folder sync - maximum tasks: 8
Cloud Station Suite	Sync data between multiple platforms by installing the client utilities on Windows, Mac, Linux, Android and iOS devices, while retaining up to 32 historical versions of files Maximum concurrent file transfers: 1,000
Cloud Sync	One or two-way synchronization with public cloud storage providers including Amazon Drive, Amazon S3-compatible storage, Baidu cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, WebDAV servers, Yandex Disk
Surveillance Station	Maximum IP cameras: 40 (total of 1,200 FPS at 720p, H.264) (includes two free camera licenses; additional cameras require the purchasing of additional licenses)
Virtual Machine Manager	Deploy and run various virtual machines on Synology NAS, including Windows, Linux, or Virtual DSM
High Availability Manager	Reduce service downtime by setting up two identical NAS into one high-availability cluster
Snapshot Replication	<ul style="list-style-type: none">Maximum shared folder snapshots: 1,024Maximum replications: 32
Active Directory Server	A flexible and cost-effective domain controller solution
VPN Server	Maximum connections: 20, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec
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)
MailPlus	Intuitive webmail interface for MailPlus Server, customizable mail labels, filters, and user interface

Collaboration tools	<ul style="list-style-type: none"> • Chat maximum users: • Office maximum users: , maximum simultaneous editing users: • Calendar: support CalDAV and access via mobile devices
Note Station	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments
Storage Analyzer	Volume and quota usage, total size of files, volume usage and trends based on past usage, size of shared folders, largest/most/least frequently modified files
Antivirus Essential	Full system scan, scheduled scan, white list customization, virus definition auto update
Download Station	Supported download protocols: BT, HTTP, FTP, NZB, eMule, Thunder, FlashGet, QQDL Maximum concurrent download tasks: 80
Web Station	Virtual host (up to 30 websites), PHP/MariaDB®, 3rd-party applications support
Other packages	Video Station, Photo Station, Audio Station, DNS Server, RADIUS Server, iTunes® Server, Log Center, additional 3rd-party packages are available in Package Center

Environment and Packaging

Environment safety	RoHS compliant
Package content	<ul style="list-style-type: none"> • DS1618+ main unit x 1 • Quick Installation Guide x 1 • Accessory pack x 1 • AC power cord x 2 • RJ-45 LAN cable x 2
Optional accessories	<ul style="list-style-type: none"> • 4GB DDR4-2133 ECC SO-DIMM (D4NS2133-4G) • 16GB DDR4-2133 ECC SO-DIMM (RAMEC2133DDR4SO-16G) • Synology E10G17-F2 / E10G15-F1 10Gbps Ethernet adapters • Synology M2D18 M.2 SSD adapter card • Synology M2D17 M.2 SSD adapter card • Expansion Unit DX517 • VisualStation VS360HD, VS960HD • Surveillance Device License Pack • MailPlus License Pack • Virtual DSM License Pack
Warranty	3 years

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

1. Performance figures may vary depending on environment, usage, and configuration.
2. DS1618+ supports dual M.2 SSD through M2D18 adapter card, sold separately.
3. DS1618+ supports up to two Synology DX517, sold separately. exFAT Access is purchased separately in Package Center
4. 5 year warranty is available as an optional bundle with EW201, 2-year Extended Warranty service add-on. Visit https://www.synology.com/en-global/products/Extended_Warranty for more information on availability.
5. exFAT Access is purchased separately in Package Center.
6. System snapshot includes snapshots taken by iSCSI Manager, Snapshot Replication, and Virtual Machine Manager. Availability of these packages varies by model.

SYNOLOGY INC.

Synology is dedicated to taking full advantage of the latest technologies to bring businesses and home users reliable and affordable ways to centralize data storage, simplify data backup, share and sync files across different platforms, and access data on-the-go. Synology aims to deliver products with forward-thinking features and the best in class customer services.

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