

# DiskStation

# DS1817



Synology DiskStation DS1817 is the first value series model featuring two built-in 10GBASE-T ports and upgradable RAM module, and is powered by quad-core processor with hardware encryption engine and expandable scalability of up to 18 drives. DS1817 is the ideal solution for centralizing data backups, protecting critical assets, and sharing files across different platforms. Synology DS1817 is backed by Synology's 3-year limited warranty.

## Optimal Performance & Affordable Price

Synology DS1817 is a 8-bay network attached storage solution with great performance and scalability. DS1817 is equipped with a **quad-core 1.7 GHz** processor, pre-installed **4GB RAM**, and two built-in **10GBASE-T** LAN ports, delivering sequential throughput at over **1,577 MB/s** reading and **739 MB/s** writing under a RAID 5 configuration with 10GBASE-T ports link-aggregated<sup>1</sup>. The built-in 10GBASE-T and 1GBASE-T ports support failover and Link Aggregation. DS1817 is a reliable and cost-effective storage solution suitable for home and business.

## Flexible Scalability

DS1817 can support up to 18 drives with two Synology **DX517**<sup>2</sup> expansion units attached, hosting up to **180 TB** of raw capacity. Storage capacity can be easily expanded according to corporate or personal needs.

## Comprehensive Business Applications

Powered by the innovative Synology DiskStation Manager (DSM), DS1817 comes fully-equipped with applications and features designed specifically for growing businesses:

- **Windows® AD** and **LDAP** support allow easy integration with existing business directory services without recreating user accounts.
- **Windows ACL** support provides fine-grained access control and efficient privilege settings, allowing DS1817 to fit seamlessly into current infrastructure.
- Internet file access is simplified by the encrypted FTP server and **Synology File Station**, which is a web-based file explorer. HTTPS, firewall, and IP auto-block support ensure file sharing over the Internet is protected with a high level of security.

## Highlights

- Scalable quad-core 8-bay storage solution with upgradable memory of up to 8GB
- Outstanding throughput at over 1,577 MB/s reading and 739 MB/s writing<sup>1</sup>
- Two 10GBASE-T (RJ-45) ports with failover and Link Aggregation support
- Scalable up to 18 drives with two DX517 expansion units<sup>2</sup>
- Synology High Availability (SHA) allows for uninterrupted services with seamless transitioning between clustered servers

## Virtualization Ready

DS1817 provides seamless storage solutions for virtualization environments, including **VMware**, **Citrix**, **Hyper-V**, and **OpenStack**. With **VMware vSphere 6** and **VAAI** integration certified, DS1817 helps offload specific storage operations and optimizes computation power for unparalleled performance and efficiency in VMware environments. As the centralized storage of a virtual environment, DS1817 enables virtual machine migration, allowing movement from server to server whilst eliminating service downtime and disruption to users. **Windows Offloaded Data Transfer (ODX)** and **Synology Advanced LUN** support greatly improve the efficiency of massive data transfer and migration. With **OpenStack** support, DS1817 can be used as a block-based storage component for servers complying with the **Cinder API**.

## Effective Synchronization & Backup Solution

DS1817 can serve as a centralized backup destination, making it easy to create a personal private cloud. **Cloud Sync** keeps your Dropbox, Google Drive, Microsoft OneDrive, Baidu, and Box storages in sync with DS1817 at home. **Cloud Station Suite** allows you to sync files among multiple devices, including Windows PC, Mac, Linux, and Android/iOS tablets and phones, effortlessly keeping everything up-to-date.

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

## 24/7 Smart Security Solution

Featuring user-friendly video management tools and an intuitive desktop-like interface, **Synology Surveillance Station** is a reliable private-security solution that can support multiple IP cameras connected to DS1817. Surveillance Station features optimized live view together with streamlined real-time monitoring. Its powerful analytics, such as motion detection and alert notification, allow you to stay informed of any suspicious activity with triggers sent via SMS, e-mail, and **DS cam** mobile application.

## Reliability & Availability

The 10GBASE-T and 1GBASE-T LAN ports of DS1817 support failover and Link Aggregation, and the LAN ports are resilient against unexpected network or cable failure. **Hot swappable drives** minimize system downtime by allowing simplified and rapid drive replacement.

Uninterrupted availability is a critical goal for all businesses. **Synology High Availability (SHA)** ensures seamless transition between clustered servers in the event of unexpected disasters and ensures that your services remain online.

**Optional 5-year warranty<sup>3</sup>** is available in select regions.



### Effective Sync & Backup Solution

Synology DS1817 can serve as a centralized backup destination, allowing you to back up files from multiple devices via Cloud Station Backup.

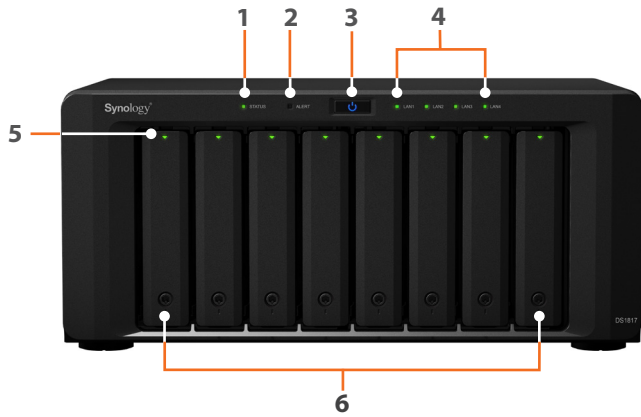


### Reliability, Availability & Disaster Recovery

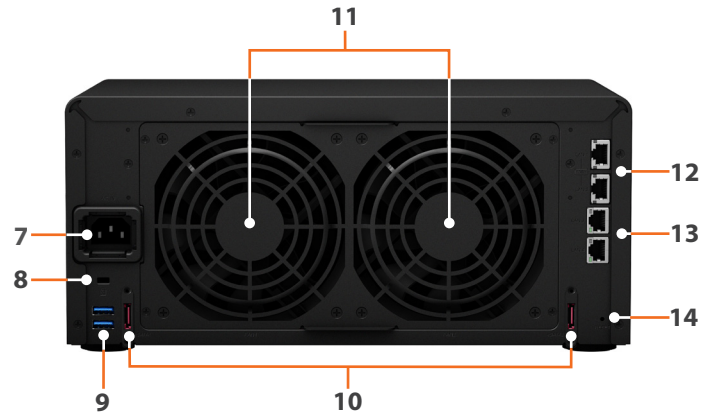
High Availability Manager ensures a seamless transition between clustered servers in the event of server failure with minimal impact on businesses.

## Hardware Overview

Front



Rear



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

## Technical Specifications

### Hardware

CPU	Annapurna Labs Alpine AL-314 quad-core 1.7GHz
Hardware encryption engine	Yes
Memory	4 GB DDR3L (expandable up to 8 GB)
Compatible drive type	8 x 3.5" or 2.5" SATA SSD / HDD (drives not included)
External port	<ul style="list-style-type: none"> <li>• 2 x USB 3.0 port</li> <li>• 2 x eSATA port</li> </ul>
Size (HxWxD)	157 x 340 x 233 mm
Weight	5.31 kg
LAN	<ul style="list-style-type: none"> <li>• 2 x 1GbE (RJ-45)</li> <li>• 2 x 10GBASE-T (RJ-45)</li> </ul>
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
System fan	2 (120 x 120 x 25 mm)
AC input power voltage	100V to 240V AC
Power frequency	50/60Hz, single phase
Operating temperature	5°C to 40°C (40°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 (10,000 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: ext4</li><li>External: ext4, ext3, FAT, NTFS, HFS+ (read only), exFAT*</li></ul>
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"><li>Maximum single volume size: 108 TB</li><li>Maximum internal volume: 256</li><li>Maximum iSCSI target: 32</li><li>Maximum iSCSI LUN: 256</li><li>iSCSI LUN clone/snapshot support</li></ul>
SSD cache	SSD read-write cache support
File sharing capability	<ul style="list-style-type: none"><li>Maximum local user account: 2,048</li><li>Maximum local group: 256</li><li>Maximum shared folder: 256</li><li>Maximum concurrent SMB/NFS/AFP/FTP connection: 1,024</li></ul>
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, 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® 10.10 onwards
Supported browser	Chrome®, Firefox®, Internet Explorer® 9 onwards, Safari® 8 onwards; Safari (iOS 7 onwards), Chrome (Android™ 4.0 onwards) on tablets
Interface language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

## Packages and Applications

File Station	Virtual drives, remote folders, Windows ACL editor, compressing/extracting archived files, bandwidth control for specific users/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 data backup 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 task number: 4
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 transfer: 1,024
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 camera: 30 (total of 900 FPS at 720p, H.264) (including two free camera licenses; additional cameras require the purchasing of additional licenses)
High Availability Manager	Reduce service downtime by setting up two identical NAS into one high-availability cluster
VPN Server	Maximum connection: 15, 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
Collaboration Suite	<ul style="list-style-type: none"><li>Chat maximum user: 150</li><li>Office maximum user: 150, maximum simultaneous editing user: 40</li><li>Calendar: support CalDAV and access via mobile devices</li></ul>
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
Security Advisor	Malware detection/removal, user account/password, network, system-related security scan

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 task: 50
Web Station	Virtual host (up to 30 websites), PHP/MariaDB®, third-party application support
Other package	Video Station, Photo Station, Audio Station, DNS Server, RADIUS Server, iTunes® Server, Log Center, third-party packages available on Package Center
iOS/Android™ application	DS audio, DS cam, DS cloud, DS file, DS finder, DS get, DS note, DS photo, DS video
Windows Phone® application	DS audio, DS file, DS finder, DS get, DS photo, DS video

## Environment and Packaging

Environment safety	RoHS compliant
Package content	<ul style="list-style-type: none"> <li>• DS1817 main unit x 1</li> <li>• Quick Installation Guide x 1</li> <li>• Accessory pack x 1</li> <li>• AC power cord x 1</li> <li>• RJ-45 LAN cable x 2</li> </ul>
Optional accessories	<ul style="list-style-type: none"> <li>• 4GB (RAM1600DDR3-4G)</li> <li>• Synology Expansion Unit DX517</li> <li>• Synology VS360HD</li> <li>• Surveillance Device License Pack</li> </ul>
Warranty	3 years

\*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 may vary depending on environment, usage, and configuration.
2. DS1817 supports up to two Synology DX517, sold separately.
3. 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](https://www.synology.com/en-global/products/Extended_Warranty) for more information on availability.
4. exFAT Access is purchased separately in Package Center.

## 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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