



## DiskStation DS116

Synology® DiskStation DS116 is a compact 1-bay NAS server with outstanding performance, bringing you a novel way to store, share, stream and synchronize data in your daily life. With comprehensive office and multimedia applications, DS116 is designed to boost up productivity and let you enjoy multimedia content effortlessly. Synology DS116 is also backed with Synology's 2-year limited warranty.

### Highlights

- Compact & quiet, blending into your small offices and home
- Dual-core CPU with hardware encryption engine
- Over 112.53 MB/s reading, 111.41 MB/s writing<sup>1</sup>
- Dual USB 3.0 ports for external storages and printers
- Multimedia streaming via DLNA-certified media server
- Brightness adjustable front LED indicators with schedule control
- Easy to use, web-based operating system on all browsers

### Optimal Price/Performance Ratio

Synology DS116 is a compact, all-purpose 1-bay NAS with supreme performance, designed to make your daily data storage activities simpler than ever. Equipped with a **Marvell® ARMADA™ dual-core CPU** and **1GB DDR3 RAM**, DS116 delivers high speed performance with over **112.53 MB/s reading speed** and over **111.41 MB/s writing speed** in a Windows® environment.<sup>1</sup> Powered with a **hardware encryption engine**, the encrypted data transmission performance can reach over **61.13 MB/s reading speed** and **46.07 MB/s writing speed**, standing out to be one of the best price/performance ratio NAS available today. With built-in **floating-point unit** support, DS116 speeds up thumbnail generation to yield a refreshing photo viewing experience. The **dual USB 3.0 ports** on the rear panel can provide high speed data transmission to a large variety of external USB devices, including Wi-Fi dongles, printers, external hard drives and more.

With a variety of software applications, DS116 turns your hard drive into a versatile storage server, which acts not only as your private cloud to access files anywhere, but also as a backup device, online photo album, local copy of your public cloud, 24/7 download portal, and so much more.

### Cross-Platform File Sharing and Data Synchronization

Synology DS116 supports comprehensive network protocols, ensuring a seamless file sharing experience across Windows®, Mac®, and Linux® platforms. **Windows AD** and **LDAP integration** allows DS116 to fit quickly and effortlessly into any existing network environment without the necessity to recreate user accounts. **Cloud Sync** keeps your Dropbox, Google™ Drive, Microsoft OneDrive, Baidu and Box storage in sync with your personal DiskStation at home. The **Cloud Station Suite** allows you to sync files among multiple devices — Windows PC, Mac, Linux, iOS or Android™ tablets/phones — effortlessly keeping everything up-to-date. All the seamless file sharing over the Internet is protected at a high security level with the HTTPS, firewall, and IP auto-block mechanisms supported by DS116.

### Comprehensive Office Applications

With Synology DS116 and its rich office applications, your productivity can be boosted up and can therefore help you to become more efficient. **SpreadSheet** allows you to create, edit and collaborate on a spreadsheet with other people simultaneously on any browser and to share with a specific group of people effortlessly. **VPN Server** package offers an easy VPN solution that turns your Synology DS116 into a VPN server, providing a secure way of connecting to a private LAN from a remote location. **RADIUS Server** strengthens network security by overseeing wireless access authentication via RADIUS (Remote Authentication Dial-In User Service) networking protocol. Synology **Surveillance Station** offers a centralized interface to



### Cross-platform File Synchronization

Auto-synchronize your files among DiskStation, PC and mobile devices using Synology Cloud Station.

manage IP cameras deployed in your office or home, allowing users traveling miles away to safeguard their personal environment by watching live views, recording events, and taking snapshots with a computer or iOS/Android device.

### Extensive Multimedia Features

With the abundant amount of tools supported by DS116, managing your multimedia content has never been easier. **Photo Station**'s intuitive design allows you to effortlessly organize photos into customized categories, smart albums, and blog posts; as well as link them to social networking websites like Facebook, Twitter, Flickr, and Weibo with just a few clicks. **Audio Station** comes with a built-in lyrics plugin, Internet radio, and support for DLNA®, AirPlay®, and Bluetooth speakers for quality playback. With **Video Station**, you can watch movies and TV shows online or directly through the **DS video** app on Apple TV.

### DLNA-Certified Media Server

As a certified **DLNA DMS** (Digital Media Server), DS116 serves as a ready media server with the capability to host digital multimedia content for remote playback. DLNA-compliant devices can access the shared content on DS116 in the same local area network without fussing over privilege settings. DS116 not only makes your multimedia files accessible without preconfiguration, but also transforms your mobile device into a remote control through Synology mobile apps. Movies, photos, and music can be immediately streamed to your TV or players, right from the palm of your hand.

### Anywhere/Anytime Availability

**QuickConnect** and **EZ-Internet** configures your DS116 to be accessed over the Internet with minimal effort. Combined with Synology's popular mobile apps, including **DS photo**, **DS audio**, and **DS video** for multimedia access, **DS download**, **DS file**, and **DS cloud** for file download/access/synchronization, you can enjoy your NAS from anywhere and at anytime.



### Anytime Availability

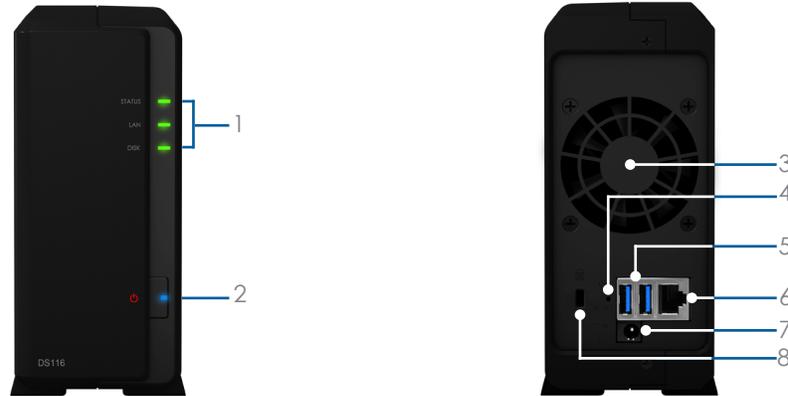
Access your DiskStation anywhere using Synology mobile apps.

### Energy-efficient with Cool and Quiet Design

All Synology NAS are designed with energy efficiency in mind. Inside DS116, there's a 60 x 60 mm fan with smart airflow functions that keep the system running cool 24/7. DS116 consumes very little power at only **10.68 watts** while accessing and **6.28 watts** when hard drive hibernation is enabled. The noise dampening design makes DS116 quiet compared to its PC counterparts. The support of Wake on LAN/WAN, multiple scheduled power on/off can further reduce power consumption and operation cost.

All Synology products are produced with RoHS compliant parts and packed with recyclable packing materials. Synology acknowledges the responsibility as a global citizen to continually work to reduce the environmental impact of every product produced.

# Connections & Buttons



1	LED indicator	2	Power button	3	Fan	4	Reset button
5	USB 3.0 port	6	Gigabit (RJ-45) LAN port	7	Power port	8	Kensington Security Slot

## Technical Specifications

### Hardware

CPU	Marvell ARMADA 385 88F6820 dual-core 1.8GHz
Hardware encryption engine	Yes
Floating point unit	Yes
RAM size	DDR3 1GB
Compatible drive type	3.5" or 2.5" SATA III/II x 1 (hard drives not included. Disk holders are required for 2.5" drives.)
Max internal raw capacity	8TB (1 x 8TB hard drive)
External ports	USB 3.0 port x 2
Size (HxWxD)	166mm x 71mm x 224mm
Weight	0.7 kg
LAN	Gigabit (RJ-45) x 1
Wireless support	Yes (wireless dongles not included)
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
AC input power voltage	100V to 240V AC
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

### General

Networking protocols	CIFS, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN*, L2TP)
File system	Internal: ext4 External: ext4, ext3, FAT, NTFS, HFS+ (read only)
Storage management	Maximum single volume size: 16TB, Maximum internal volume: 1, Maximum iSCSI Target: 10, Maximum iSCSI LUN: 10
Supported RAID type	Basic
File sharing capability	Maximum user accounts: 2048, Maximum groups: 256, Maximum shared folders: 256, Maximum concurrent CIFS/AFP/FTP/File Station connections: 128
Privilege	Windows Access Control List (ACL)
Directory service	Windows AD Integration: Domain Users login via Samba (CIFS)/AFP/FTP/File Station, LDAP Integration
Security	FTP over SSL/TLS, IP auto-block, firewall, encrypted network backup over Rsync, HTTPS connection
Utilities	Synology Web Assistant, Cloud Station Drive, Cloud Station Backup, Photo Station Uploader, Evidence Integrity Authenticator
Supported clients	Windows 7 onwards, Mac OS X® 10.10 onwards
Supported browsers	Chrome™, Firefox®, Internet Explorer®: 8 onwards, Safari® 7 onwards, Safari (iOS® 7 onwards on iPad®), Chrome (Android 4.0 onwards on tablets)
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

## Applications

File Station	Virtual drive, remote folder, Windows ACL editor, compress/extract archived files, bandwidth control for specific users or groups, create sharing links, transfer logs
Backup Solutions	Network backup; local backup; desktop backup; configuration backup; OS X Time Machine; backup data to public cloud; shared folder sync - maximum task number: 2
FTP Server	Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocols, boot over the network with TFTP and PXE support, transfer logs
Printer Server	Maximum printer: 2, printing protocols: LPR, CIFS, IPP, iOS printing, Google Cloud Print™, multi functional print server (MFP functions are for Windows PC only)
Security Advisor	Malware detection/removal, user account/password, network, system-related security scan
iOS/Android Applications	DS cloud, DS file, DS finder, DS cam, DS note, DS audio, DS download, DS photo, DS video
Windows phone® applications	DS file, DS finder, DS audio, DS download, DS photo, DS video

## Add-on Packages

Antivirus Essential	Full system scan, scheduled scan, white list customization, virus definition auto update
Cloud Station Server	Maximum concurrent file transfers: 128, retain historical and deleted file versions
Cloud Sync	One or two-way synchronization with public cloud storage providers including Amazon Cloud Drive, Amazon S3-compatible storage, Baiduyun, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, Megafon Disk, Microsoft OneDrive, OpenStack Swift-compatible storage, WebDAV servers, Yandex Disk
DLNA/UPnP® Media Server	DLNA certified, PS3®/PS4®/Xbox 360®/Xbox One® support
Download Station	Supported download protocols: BT/HTTP/FTP/NZB/eMule Maximum concurrent download tasks : 30
Log Center	SSL connection, log rotation: 6 months, 1 year, 2 years, 3 years, email notification
Mail Server	Supported Mail Server protocols: POP3, SMTP, IMAP, support LDAP/AD account
Mail Station	Webmail interface for Mail Server; receiving mails from multiple POP3 mailboxes, customizable SMTP server
Note Station	Rich-text note organization with 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
Surveillance Station	Maximum IP camera: 16 (total of 480 FPS at 720p, H.264) (Including two free camera licenses. Procurement of additional licenses is required.)
VPN Server	Maximum connections: 5, supported VPN protocols: PPTP, OpenVPN, L2TP
Web Station	Virtual Host (up to 30 websites), PHP/MariaDB®, 3rd-Party applications support
Other Packages	Photo Station, Audio Station, iTunes® Server, 3rd-party packages

## Environment and Packaging

Environment	RoHS Compliant
Package content	DS116 main unit, Welcome note, accessory pack, AC power adapter, RJ-45 LAN cable
Optional accessories	Camera License Pack, 2.5" Disk Holder Type C, VS360HD
Warranty	2 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 may vary depending on the environment.

### 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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