



# DiskStation DS116

Synology<sup>®</sup> 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 business 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 112.67 MB/s reading, 111.82 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 for 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 simpler than ever. Equipped with a **Marvell® ARMADA™ dual-core CPU** and **1GB DDR3 RAM**, DS116 delivers high performance – **112.67 MB/s reading speed** and **111.82 MB/s writing speed** – in a Windows® environment.<sup>1</sup> Powered with a **hardware encryption engine**, DS116 excels with its high-speed encrypted data transmission – over **112.97 MB/s for reading** and **93.73 MB/s for writing** – making itself one of the best NAS available today. DS116 comes with built-in **floating-point unit** support that allows quick thumbnail generation for your photos. 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.

Supported by numerous feature-rich applications, DS116 turns your hard drive into a versatile storage server, which acts not only as your private cloud for anywhere access, but also as a backup device, online photo album, local storage of your public cloud data, 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** allow 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 storages 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 business applications, you can boost personal productivity and therefore become more efficient at work. **SpreadSheet** allows you to create, edit and simultaneously collaborate on a spreadsheet with multiple users on any browser, and share it with a specific group of people effortlessly. **VPN Server** 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 the RADIUS (Remote Authentication Dial-In User Service) networking protocol. **Surveillance Station** offers a centralized interface to manage IP cameras deployed in your office or home, allowing users traveling miles away to safeguard their personal



#### **Cross-platform File Synchronization**

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



## **Extensive Multimedia Features**

With various 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 radios, 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 configure your DS116 to be accessed over the Internet with minimal effort. Multimedia content is downright accessable via Synology's popular mobile apps like DS photo, DS audio, and DS video. DS download, DS file, and DS cloud allow file download/access/synchronization from anywhere at anytime.

## 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 minimal power at only **10.68 watts** during access and **6.28 watts** during hard drive hibernation. The noise dampening design makes DS116 quiet compared to its PC counterparts. The support of Wake on LAN/WAN, 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.



**Anytime Availability** 

Access your DiskStation anywhere using Synology mobile apps.

## **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 portsre	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 <sup>®</sup> 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 <sup>®</sup> support
Download Station	Supported download protocols: BT/HTTP/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 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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DS116-2016-ENU-REV001

#### Headquarters

Synology Inc. 3F-3, No. 106, Chang An W. Rd., Taipei, Taiwan Tel: +886 2 2552 1814 Fax: +886 2 2552 1824

#### China

Synology Shanghai 20070, Room 516, No. 638, Hengfeng Rd., Zhabei Dist., Shanghai, China

#### France

Synology France SARL 39 rue Louis Blanc, 92400 Courbevoie, France Tel: +33 147 176288

#### North & South America

Synology America Corp. 3535 Factoria Blvd SE #200, Bellevue, WA 98006, USA Tel: +1 425 818 1587

#### United Kingdom

Synology UK Ltd. Unit C, Denbigh West Business Park, Third Avenue, Bletchley, Milton Keynes, MK1 10H, UK Tel: +44 1908 366380

#### Germany

Synology GmbH Grafenberger Allee 125 40237 Düsseldorf Deutschland Tel: +49 211 9666 9666