Synology DiskStation DS112

Feature-rich 1-bay NAS Server for Small Business & Workgroups

Synology® DiskStation DS112 offers an affordable and full-featured network attached storage solution, specifically designed for small business & workgroup users who need to share data cost-effectively, while increasing productivity with comprehensive business-oriented applications. Running on DiskStation Manager (DSM) operating system, it delivers ease of use and a variety of features.

Highlights:

- Optimal Price/Performance Ratio
- Features SuperSpeed USB3.0
- Cool and Quiet Design
- Hardware Encryption Engine
- Windows®+ Mac®+ Linux® Cross Platform File Sharing
- Rich Office Applications
- Running on Synology DiskStation Manager (DSM)

Optimal Price/Performance Ratio

Synology DS112 delivers an average 110.19 MB/s reading speed in a Windows environment, and 71.84 MB/s writing. Coming with USB3.0 support which offers transmission speeds of up to 5 Gbps, namely 10 times faster than USB 2.0, DS112 delivers exceptional performance in its class.

DiskStation DS112 provides a reliable solution for data sharing with an easy-to-use management interface, and comprehensive office applications, including a complete backup solution making it one of the best values in 1-bay NAS servers available today.

Windows+Mac+Linux Cross Platform File Sharing

Synology DS112 is designed for data storage and sharing among Windows, Mac, and Linux. Seamless file sharing across different operation systems is an effortless process. Windows ADS integration allows the Synology DS112 to quickly and easily fit into an existing network environment with no need to recreate user accounts on Synology DS112.

If you are always on the move, Synology provides a handy app, DS file for iPhone®, iPad® and Android™ users. Anything stored on Synology DS112 can now be accessed remotely using DS file via the Internet.

Rich Office Applications

Synology DS112 runs on the award-winning operating system, Synology DiskStation Manager (DSM), offering comprehensive applications and features designed specifically for Small Business & Workgroups.

The built-in mail server turns Synology DS112 into a dedicated mail service provider, and the USB printer sharing capability minimizes businesses' cost by sharing printing resources throughout the office. VPN Server package offers an easy VPN solution that turns your DS112 into a VPN server, providing a secure way of connecting to a private LAN at a remote location.

Synology Web Station with support for PHP/MySQL® web content allows hosting of up to 30 websites, and 3rd party web applications such as Content Management, Customer Relationship Management & e-Commerce system.

Effective Backup Solutions

Synology DS112 offers a centralized backup target to consolidate fragmented and unstructured data across a network. PC users can back up their data to Synology DS112 using Synology Data Replicator software, and Mac OS X® users enjoy native Apple® Time Machine® integration.
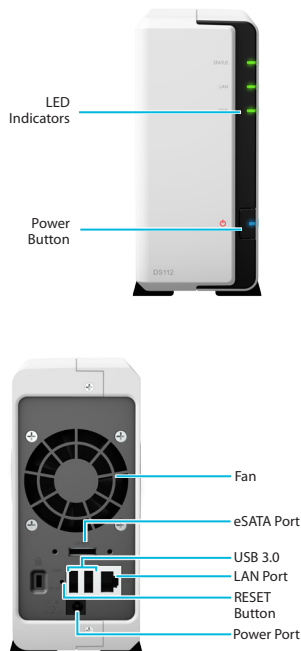
A backup wizard is provided for backing up data from Synology DS112 to another Synology DiskStation, to other rsync server, or to an external drive. Backing up to Amazon® S3 cloud service is also supported. The add-on package, Time Backup, keeps DiskStation data in multiple versions, so IT administrators could easily keep track of them and restore to a previous version whenever required.

Energy Efficient with Cool and Quiet Design

Synology DS112 is designed with energy efficiency in mind. Not only does it provide a 60x60mm fan and the smart airflow to keep the system running cool 24/7, its noise dampening design makes it really quiet compared to PC counterparts. Synology DS112 consumes only 13.2 watts in operation, and support of Wake on LAN/WAN, multiple scheduled power on/off, and hard drive hibernation can further reduce power consumption and operation cost, as well as extending the lifespan of the hard disk.

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

CONNECTIONS & BUTTONS

LED Indicators

Power Button

DS112

Fan

eSATA Port
USB 3.0
LAN Port
RESET Button
Power Port

Technical Specifications

Hardware

- CPU Frequency: 1.6GHz
- Memory: DDR3 256MB
- Internal HDD/SSD: 3.5" or 2.5" SATA(II) X 1 (with 2.5" Disk Holder Type C) (hard drive not included)
- Max Internal Capacity: 4TB (1 X 4TB HDD)
- External Storage Interface: 2X USB 3.0 ports, 1X eSATA port
- Size (HxWxD): 166mm X 71mm X 224mm
- Weight: 0.72Kg

- LAN: Gigabit X1
- Wireless Support (wireless dongles not included)
- Wake on LAN/WAN
- Hardware Encryption Engine
- Fan: 1X (60x60x15mm)
- Noise Level[1]: 18.4 dB(A)
- Power Recovery
- AC Input Power Voltage: 100V to 240V

- Power Frequency: 50Hz to 60Hz, Single Phase
- Power Consumption[2]: 13.2W (Access); 9.72W (Idle); 5.04W (Hibernation)
- Operating Temperature: 5°C to 35°C (40°F to 95°F)
- Storage Temperature: -10°C to 70°C (15°F to 155°F)
- Relative Humidity: 5% to 95%RH
- Maximum Operating Altitude: 10,000 feet
- Certification: FCC Class B, CE Class B, BSMI Class B

Applications

File Browser
- Virtual Drive
- Remote Folder

File Station

FTP Server
- Bandwidth Control
- Custom FTP Passive Port Range
- Anonymous FTP
- Transfer Log

Mail Server
- Supported Mail Server Protocol : POP3, SMTP, IMAP

Web Station
- Virtual Host (up to 30 websites)
- PHP/MySQL
- Alternative HTTP Error Page
- 3rd-Party Applications Support

Surveillance Station
- Default IP cam #: 1
- MAX IP cam # (licenses required): 8 (1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.)

Photo Station
- Facebook Integration
- Supported Image Format: BMP, JPG (jpe, jpeg), GIF, RAW (arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rw2, dng, x3f)
- Supported Video Format: 3G2, 3GP, ASF, AVI, DAT, DivX, FLV,

M4V, MOV, MP4, MPEG, MPG, QT, WMV, XviD, RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3 (Users can click and download the following video formats: RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3, but not able to play it in Photo Station as compressed Flash® video.)

Download Station
- Supported Download Protocols: BT/HTTP/FTP/NZB/eMule
- Custom BT Port
- BT / eMule Bandwidth Control

Audio Station
- Supported Audio Format: (USB Mode) AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) MP3, M4A, M4B
- Supported Playlist Format: M3U, WPL
- Internet Radio: SHOUTcast®, Radioio®

DLNA/UPnP Media Server
- DLNA Certified
- PS3/Xbox 360® Support
- Supported Audio Format: AAC, FLAC, M4A, MP3, Ogg Vorbis, PCM, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless
- Supported Video Format: 3GP, 3G2, ASF, AVI, DAT, DivX, DVR-MS, ISO, M2T, M2TS, M4V, MKV, MP4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, XviD, RMVB
- Supported Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO
- Supported Subtitles Format: srt, psb, smi, ass, ssa, sub, idx, ifo

iTunes® Server
- Supported Audio Format: MP3, M4A, M4P, WAV, AIF (The music

in WAV and AIF format can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.)
- Supported Video Format: M4V, MOV, MP4
- Supported Playlist Format: M3U, WPL

Print Server
- Max Printer #: 2
- Printing Protocols: LPR, CIFS, AppleTalk®, Apple AirPrint™, Google Cloud Print™ (For Mac users, only PostScript USB printers are supported.)
- Multi Functional Print Server

Package Center
- Mail Station 2
- Webalizer
- Logitech® Media Server
- phpMyAdmin
- Time Backup
- VPN Server
- WordPress®
- Syslog Server
- Directory Server
- HiDrive® Backup

iOS® and Android Applications
- DS photo+
- DS audio
- DS cam
- DS file
- DS finder

General Specifications

Networking Protocols
- CIFS, AFP, FTP, iSCSI, Telnet, SSH, NFS, SNMP, WebDAV, CalDAV

File System
- EXT4
- EXT3 (External Disk Only)
- FAT (External Disk Only)
- NTFS (External Disk Only)

Volume Management
- Max Internal Volume #: 1
- Max iSCSI Target #: 10
- Max iSCSI LUN #: 10
- Volume Type: Basic

File Sharing Capability
- Max User Account #: 2048
- Max Group #: 256
- Max Shared Folder #: 256
- Max Concurrent Connections # (SAMBA, FTP, AFP): 128

Windows Access Control List (ACL) Support

Windows ADS Domain Integration
- Domain Users login via Samba/AFP/FTP/File Station

Backup Solutions
- Network Backup
- Shared Folder Sync
- Local Backup

- Desktop Backup (using Synology Data Replicator or Apple Time Machine backup application)
- 3rd-Party Backup Support

Security
- FTP over SSL/TLS
- IP Auto-Block
- Firewall
- Encrypted Network Backup over Rsync
- HTTPS Connection

Management
- DSM Update
- DSM mobile
- Email Notification
- SMS Notification
- Customized User Quota
- DDNS Support
- PPPoE
- Resource Monitor
- UPS Management
- UPnP® Router Support
- Scheduled Power On/Off
- Custom Management UI HTTP/HTTPS Ports

HDD Management
- HDD Hibernation
- S.M.A.R.T.

- Dynamic Bad Sector Mapping

Utilities
- Synology Assistant
- Synology Data Replicator

Support Browsers
- Internet Explorer® 7/8/9
- Firefox®
- Safari® 4/5 (Mac)
- Chrome™

Supported Clients
- Windows XP onward
- Mac OS X 10.5 onward
- Ubuntu 9.04 onward

Supported Mobile Devices (Photo Station, File Station)
- iPhone OS 2.2.1 onward
- Android OS 1.5 onward
- Windows Mobile (IE Mobile or Opera 9.0 onward)
- Symbian™ OS 9.1, S60 3rd Edition onward

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

Environment and Packaging

Environment
- RoHS Compliant

Package Content
- DS112 Main Unit
- Installation DVD

- Welcome Note
- Assembling Kit
- AC Power Adapter
- AC Power Cord
- 2M RJ-45 LAN Cable

Optional Accessories
- Synology Remote
- Camera License Pack
- 2.5" Disk Holder Type C

1. Fully loaded with Seagate® ST31000520AS hard drive(s) in operation; Two G.R.A.S. Type 40AE microphones, each set up at 1 meter away from the DiskStation front and rear; Background noise: 17.0 dB(A); Temperature: 22.0°C; Humidity: 64.4%; More details about dB(A) value, check http://www.memtechacoustical.com/facts.asp

2. Measured with 1 Western Digital® 3TB WD30EZRS hard drive. The figures could vary on different environments.

SYNOLOGY INC.

Founded in 2000, Synology is a young and energetic company dedicated to developing high-performance, reliable, versatile, and environmentally-friendly Network Attached Storage (NAS) products. Our goal is to deliver user-friendly solutions and solid customer service to satisfy the needs of businesses, home offices, individual users and families.

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Networking

External Disk | DS112 | USB Printer

DS112 | Wireless Router | Windows ADS Server

PC / Mac / Linux | PC / Mac / Linux | IP Camera