Synology DiskStation DS112+

High-Performance 1-bay All-in-1 NAS Server



Synology® DiskStation DS112+ offers a high-performance, and full-featured network attached storage solution that helps small and medium-sized businesses centralize backup, protect critical assets and share files quickly and efficiently. Synology protects your investment in the DS112+ with a 2-year limited warranty.

Highlights

- 107.92 MB/sec Reading, 76.66 MB/sec Writing[1]
- Features SuperSpeed USB 3.0
- Hardware Encryption Engine
- Rich Office Applications
- Complete Backup Solutions
- Cool and Quiet Design
- Running on Synology DiskStation Manager (DSM)

High Performance

The Synology DS112+ is designed for business users who demands high-performance for file sharing and running of office applications. The Synology DS112+ delivers an average 107.92 MB/sec reading and 76.66 MB/sec writing speeds in a Windows® environment[1].

Coming with USB 3.0 support which offers transmission speeds of up to 5 Gbps, namely 10 times faster than USB 2.0, DS112+ takes less time for data transfer for external hard drives and consumes less power.

Peace of Mind with Data Encryption

The Synology DS112+ is equipped with an encryption engine which offloads the encryption calculation task away from the main CPU, helping to improve file transfer speeds of the DiskStation.

Data protection is an important matter for businesses of all sizes. High-end features previously available only on enterprise level hardware are now accessible via Synology DS112+ to small and medium-sized businesses. DS112+ provides share-level AES 256-bit encryption to aid in the prevention of unauthorized access attempts to the hard drives.

Rich Office Applications

Synology DS112+ runs on the renowned operating system, Synology DiskStation Manager, (DSM) offering applications and features designed specifically for SMBs. Directory Server package turns Synology DS112+ into an LDAP-based directory server which is capable of centralizing the management and authentication of user accounts for different applications, therefore enhancing network security and reducing management costs.

Internet file access is simplified by FTP server and the web-based File Station. Synology DiskStation eliminates the requirement of advanced FTP knowledge for Internet file sharing. With just a few clicks, FTP service can be established. File Station provides easy file navigation on your DSM desktop, allowing you to move or copy files without installing any software on your client computer.

The built-in mail server offers a professional mail service 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.

Complete Backup Solutions

A backup wizard is provided for backing up data from DS112+ to another Synology DiskStation or any rsync server via an encrypted connection, or to an external hard drive via USB 3.0 or eSATA connection. The wizard also makes it easy to back up DiskStation data to the cloud via Amazon® S3. In addition, users can back up and restore DiskStation shared folders in multiple versions using Synology Time Backup package.

Shared Folder Sync allows users to synchronize a specific folder from Synology DS112+ to another DiskStation– a server-to-client backup mechanism that takes place whenever something is changed on the server side. Users will be able to share documents within their local office seamlessly and safely with encrypted connection. When your DiskStation is down, you will be able to have an immediate backup running in no time.

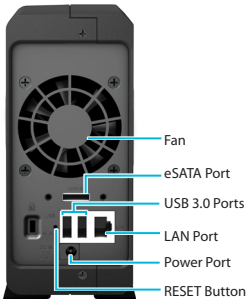
Energy Efficient with Cool and Quiet Design

Synology DS112+ is designed with energy efficiency in mind. Not only does it provide a larger fan and the smart airflow to keep the system running cool 24/7, its noise dampening design makes it really quiet (18.4 dB) compared to PC counterparts. The support of Wake on LAN/WAN, multiple scheduled power on/off and hard drive hibernation 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





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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Technical Specifications

Hardware

- CPU: Marvell Kirkwood 2.0GHz
- Memory: DDR3 512MB
- Internal HDD/SSD: 3.5" or 2.5" SATA(II) X1 (with 2.5" Disk Holder Type C) (hard drive not included)
- Max Internal Capacity: 4TB (1X 4TB hard drive) (hard drive not included)
- Size (HxWxD): 166mm X 71mm X 224mm
- External Storage Interface: USB 3.0 X 2, eSATA port X 1
- Wake on LAN
- Weight: 0.72Kg
- LAN: Gigabit X1
- Wireless Support (wireless dongles not included)
- Hardware Encryption Engine
- Fan: X1(60 X 60mm X15mm)
- Power Recovery
- AC Input Power Voltage: 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Power Consumption[2]: 14.6W (Access); 6.34W (HDD Hibernation)
- Noise Level[3]: 18.4 dB(A)
- 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: 6,500 feet
- Certification: FCC Class B, CE Class B, BSMI Class B

Applications

File Station
- Virtual Drive
- Remote Folder

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): 12 (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 (User 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

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
- Logitech Media Server
- Webalizer
- phpMyAdmin
- Time Backup
- VPN Server
- WordPress
- Syslog Server
- Directory Server
- HiDrive Backup

iPhone®/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): 256

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

Backup Solutions
- Network Backup
- 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 Upgrade
- 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

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

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

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

Networking

