Synology®

Disk Station DS109
Feature-rich 1-bay SATA NAS Server for Workgroups and Offices

Key Features

- Easy-to-use
- Cool and Quiet
- Power-Saving (9W~19W)

Shipped with Disk Station Manager 2.1 that provides:

- AJAX-Based Management Interface
- Remote File Management with a Web Browser
- Mail Station add-on with one-step installation
- IP camera support
- Website Hosting with PHP+MySQL Support
- USB Printers Sharing
- 3rd-Party Application Integration

And more...

Synology Disk Station DS109 is designed to provide users with a flexible solution to share files and increase productivity. Packed with the Synology Disk Station Manager 2.1, it delivers ease of use and variety of features. Furthermore, the optional Synology 2.5" Disk Holder provides an easy way for users to deploy a 2.5" hard drive on the DS109, bringing the library quietness, power saving, and higher reliability for the DS109.

Effortless File Sharing & Backup

Synology Disk Station is designed for data storage and sharing among Windows, Mac, and Linux. Seamless file sharing across different operation systems is an effortless process.

Synology File Station 2 offers an innovative user interface with drag-n-drop and right-click capability allowing users not familiar with FTP to easily access files with a web browser.

Synology Data Replicator 3 allows Windows users to back up desktop data to the Synology Disk Station. Immediate, Sync, and Scheduled Backup are fully-supported.

Synology Local Backup helps to safeguard data by backing up to external hard drives via either USB or eSATA interfaces with flexible scheduling options.

Office Applications

Synology Mail Station add-on provides a one step installation and enables Synology Disk Station to be a mail server that supports Outlook-like Web mail, SMTP, POP3, and IMAP.

Synology Web Station with Virtual Host option allows users to host up to 30 websites on one single Synology Disk Station. The built-in PHP+MySQL provides the ability to create interactive websites without complicated settings.

Synology Disk Station supports two USB printers simultaneously, and the Add Printer Wizard simplifies setup process with a wizard.

3rd-Party Application Integration

Following "Synology NAS Server 3rd-Party Apps Integration Guide" on Synology website, users can customize their Synology Disk Station by installing their favorite applications.
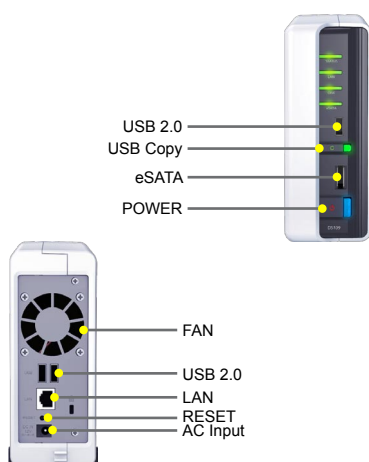
Eco Friendly

Synology Disk Station is designed and developed perpetually with the concept of energy saving. Compared with average PC counterparts, Synology Disk Station consumes a relatively low amount of power and hibernates when not in use. This not only helps to save energy but also extends the lifespan of the hard disk.

Synology Disk Station truly earns the title of "green product" because of the unique Scheduled Power On/Off feature, and the smart fan design effectively cools down the system with minimum power consumption, yet keeps the system quiet on operation.

Finally, all Synology products are produced with RoHS compliant parts and packed with recyclable packing materials. Synology recognizes its responsibility as a global citizen and is continually working to reduce the environmental impact of the products we create.

CONNECTIONS & BUTTONS

USB 2.0
USB Copy
eSATA
POWER

FAN
USB 2.0
LAN
RESET
AC Input

Technical Specifications

Hardware
- CPU: 1.2GHz, 16bit@DDR800
- RAM Size: 128 MB
- Internal HDD[1]: 1X 3.5" SATA(II) or 1X 2.5" SATA/SSD using Synology Disk Holder Type A
- External HDD Interface: 3X USB 2.0 ports, 1X eSATA port
- Size: 160mm X 218mm X 63mm
- Weight: 0.81kg
- LAN: 1X Gigabit
- Fan: 1X (50mmX50mm)
- Noise Level[2]: 25 dB(A)
- Power Recovery
- AC Input Power Voltage: 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Max HDD Support (Internal HDD): 2 TB
- Max Supported IP Camera #: 5
- 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

Power Consumption[3]
- 19 W (Access); 9 W (Hibernation)

Certification
- FCC Class B, CE Class B, BSMI Class B

Networking Protocols
- CIFS
- AFP (3.1)
- FTP
- NFS
- Telnet/SSH

Security
- FTP over SSL/TLS (explicit)
- FTP Auto-Block
- Encrypted Network Backup
- Encrypted rsync
- HTTPS Connection

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

File Sharing
- Max User Accounts: 1,024
- Max Groups: 128
- Max Shared Folder: 256
- Max Concurrent Connections (SAMBA, FTP, AFP): 64

Utilities
- Synology Assistant
- Synology Data Replicator 3
- Synology Download Redirector
- Add Printer Wizard

Applications
- Surveillance Station 2
- Photo Station 3
- File Station 2
- Audio Station
- Web Station
- PHP/MySQL
- Download Station 2
- iTunes Server

Packages
- Mail Station
- SqueezeCenter
- Weblizer

UPnP Multimedia Service Support
- Sony PS3, Microsoft Xbox360
- Audio Format: AAC, FLAC, M4A, MP3, Ogg Vorbis, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless
- Video Format: ASF, AVI, DAT, DivX, MP4, MPEG1, MPEG2, MPEG4, VOB, WMV, XviD
- Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO
- Playlist Format: WPL, M3U
- Subtitle: srt, psb, smi, ass, ssa, sub, idx, ifo

iTunes Server Support
- Audio Format: MP3, M4A, M4P, WAV[4], AIF[4]
- Playlist Format: M3U, WPL

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

Photo Station 3 Support
- Video Format: ASF, AVI, MPEG1, MPEG4, WMV, XviD, DivX, FLV, DAT[5], MP4[5], MPEG2[5], RM[5], RMVB[5], VOB[5]
- Image Format: BMP, JPG (jpe, jpeg), GIF

Management
- AJAX-based Management UI
- BitTorrent Port Range Setup
- BitTorrent DHT Support
- CIFS Recycle Bin
- Download Station Bandwidth control
- Download Station Port Range Setup
- Editable HTTP Error Page
- Email Alert Message
- Email Notification for New User
- Package Management
- External HDD Hibernation
- Scheduled Power On/Off
- Firmware Upgrade
- FTP passive port range
- Hide-able Shared Folder
- Internal HDD Hibernation
- Removable Default Shared Folder
- Ez-Internet

- PPPoE
- UPS Management (Over USB 2.0)
- User Quota
- Web-based Download Station

Backup Solutions
- Network Backup
- Local Backup
- Desktop Backup (using Synology Data Replicator 3)
- 3rd-Party Backup Support

Supported Clients
- Windows 2000 onward
- Mac OS X 10.3 onward
- Linux

Printer Support[6]
- Max Printer #: 2
- Supported Protocols: LPR, CIFS, AppleTalk

Languages
- English, Danish, Dutch, Norwegian, Swedish, German, French, Italian, Polish, Russian, Spanish, Korean, Traditional Chinese, Simplified Chinese, Hungarian, Turkish, Portuguese Brazil, Portuguese European

Environment
- RoHS Compliant

Package Content
- DS109 Main Unit
- Installation CD
- Welcome Note
- Assembling Note
- AC Power Adapter
- AC Power Cord
- 2M RJ-45 LAN Cable

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(1) Hard drive not included.
(2) FAN only. Measured at 2300~6200RPM, varied among models. More details about dB(A) value, check http://www.quietnoise.com/facts.htm
(3) Measured with 1 Seagate 750GB ST3750640NS hard drive. The figures could vary on different environments.
(4) The music can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.
(5) User can click and download the file, but not play it in Photo Station 3 as compressed Flash video.
(6) For Mac users, DS109 supports PostScript USB printers only.

Networking

External Disk · DS109 · USB Speakers · USB Printer · Synology Remote · DS109 · Wireless Router · Digital Media Adapter · Windows ADS Server · PC / Mac/ Linux · IP Camera · TV · Stereo System

SYNOLOGY INC.

Synology Inc., founded in April 2000 by a duo experienced in system designing and marketing, is a dedicated Network Attached Storage (NAS) products provider located in the Taipei city, Taiwan. With a staunch and united team organization, Synology creates and brings forth NAS servers of originality ,Synology Disk Station, for the global market. Under the breezy yet conscientious team work, Synology embodies the spirit of vitality, creativity, specialty, and versatility, implanting a new breath into the staid NAS business. With our sustained and substantial investment in research and development, Synology is pursing the laurels of contemporary NAS industry on an international scale.

Synology NAS Servers are designed to fulfill its customers' need of security, performance, energy saving, and functionality on a broad range around the globe from prosumers to corporations. Moreover, to practice commitment made to its widespread customers and to provide every possible means of satisfactory services, Synology is using its best endeavors to the establishment a fully developed customer support and service team. Having a vision beyond the visible, Synology Disk Station signifies –Value.

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