



# Synology DiskStation DS410

4-bay All-in-1 NAS Server with Optimal Price/Performance Ratio for Home to Business Workgroup Users

**Synology® DiskStation DS410 offers an affordable, high-performance and full-featured network attached storage solution that is specifically designed for home to business workgroup users who need to share and protect data cost-effectively, while increasing productivity with comprehensive business-oriented applications.**

## Highlights

- Optimal Price/Performance Ratio
- Power-saving with Only 56 Watts in Operation
- Wake on LAN/WAN
- Scheduled Power On/Off
- Supports both 3.5" and 2.5" Hard Drives
- Includes Feature-Rich Synology DiskStation Manager 2.3 (DSM 2.3)

## Optimal Price/Performance Ratio

The Synology DS410 delivers an average 110 MB/sec reading speed under RAID 5 configuration in a Windows environment, and 54.9 MB/sec writing. The Synology DS410 provides a reliable solution for data sharing with an easy to use interface, and comprehensive businesses-oriented applications, including a complete backup solution making it one of the best values in 4-bay NAS devices available today.

## Easy Setup and Management

For users who are limited on time and not familiar with configuring complicated routers, the Synology EZ-Internet Wizard simplifies the process of setting up access to the Synology DS410 from the Internet. The EZ-Internet Wizard steps through all of the settings including firewall settings, port-forwarding, PPPoE setup and DDNS registration.

Running on AJAX technology, the UI is intuitive and easy-to-use. Creating private shared folders for a large number of users is easy with the User Home feature because it minimizes the steps and time for the administrator to create private shared folders. The sub-folder privilege settings further extend the flexibility to allocate permissions for different workgroups.

## Flexible RAID Management

The Synology Hybrid RAID (SHR) automatically builds an optimal RAID volume with data protection based on the hard drives installed, eliminating the need to have hard drives of identical size, while still offering a manual setup option for advanced users.

## Complete Backup Solutions

The Synology DS410 offers a centralized backup target to consolidate fragmented and unstructured data across a network. PC Users can back up their data to the Synology DS410 using the free Synology Data Replicator software, while Mac OS X users enjoy native Apple® Time Machine integration. A web-based backup wizard is provided for backing up data in the Synology DS410 to another Synology DiskStation or any rsync server via an encrypted transmission, or to an external hard drive via USB or eSATA connection. In addition, backing up to the cloud using Amazon® S3 service is also supported.

## Full-featured Business Applications

The Synology DS410 runs on the renowned system firmware, Synology DSM 2.3, offering comprehensive applications and features designed specifically for business workgroups. Comprehensive network protocol support assures seamless file sharing across Windows, Mac, and Linux platforms. Windows ADS integration allows the Synology DS410 to quickly and easily fit into an existing business network environment with no need to recreate user accounts on the Synology DS410.

Internet file access is simplified by the encrypted FTP server and the web-based file explorer, Synology File Station 3. HTTPS, firewall, and IP auto-block support ensure file sharing over the Internet is protected at a high security level.

Synology Web Station with support for PHP/MySQL web content allows hosting up to 30 websites on a Synology DS410. Synology Surveillance Station 4 offers a centralized interface to safeguard the office environments by deploying IP cameras. H.264 video format is supported to deliver high quality video. The Mail Station add-on turns a Synology DS410 into a mail server with only few steps of installation. The USB printer sharing capability minimizes businesses' cost by sharing printing resources throughout the office.

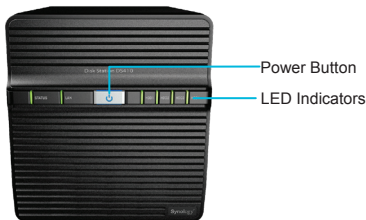
DSM 2.3 users are encouraged to develop and install third-party applications on the Synology DS410. Meanwhile, a list of third-party applications that were tested by Synology is available for users to install on the Synology DS410.

## Energy Efficient Design

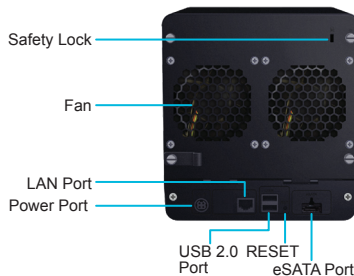
Synology DiskStations are designed and developed with energy efficiency in mind. Compared with the average PC counterparts, the Synology DS410 consumes only 56 watts in operation. The support of wake on LAN/WAN, scheduled power on/off and hard drive hibernation can further reduce power consumption and 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



Power Button  
LED Indicators



Safety Lock  
Fan  
LAN Port  
Power Port  
USB 2.0 RESET Port  
eSATA Port

## Technical Specifications

### Hardware

- CPU: 1.06GHz, with floating point
- RAM Size: 512 MB (64bit@DDR533)
- Internal HDD<sup>(1)</sup>: 4X 3.5" SATA(II) or 4X 2.5" SATA/SSD
- External HDD Interface: 2X USB ports, 1X eSATA port
- Size: 168mm X 184mm X 230mm
- Weight: 2.23kg
- LAN: 1X Gigabit
- Fan: 2X (80mm X 80mm)
- Noise Level<sup>(2)</sup>: 23dB(A)
- Power Recovery
- AC Input Power Voltage: 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Max Internal Capacity: 8TB (4X 2TB hard drives)<sup>(3)</sup>
- Max Supported IP Camera #: 12<sup>(4)</sup>
- 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
- Max Operating Altitude: 10,000 feet

### Power Consumption<sup>(5)</sup>

- 56W (Access); 20W (HDD Hibernation)

### Certification

- FCC Class, CE Class B, BSMI Class B

### Networking Protocols

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

### Windows ADS Domain Integration

- ADS Support
- Domain users login via Samba/AFP/FTP
- Synology Data Replicator 3 for Domain Users

### Security

- Firewall
- 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 Only)

### File Sharing

- Max User Account: 2,048
- Max Group: 256
- Max Shared Folder: 256
- Max Concurrent Connections (SAMB/A, FTP, AFP): 256

### Utilities

- Synology Assistant
- Synology Data Replicator 3
- Synology Download Redirector
- Add printer wizard

### Applications

- Surveillance Station
- Photo Station
- File Station
- Audio Station
- Web Station (PHP/MySQL)
- Download Station
- iTunes Server

### iPhone Applications

- DS photo
- DS audio
- DS cam

### Packages

- Mail Station
- phpMyAdmin
- SqueezeCenter
- Webalizer

### DLNA/UPnP Media Server Support

- DLNA Certified
- Sony PS3, Microsoft Xbox360
- Audio Format: AAC, FLAC, M4A, MP3, Ogg Vorbis, PCM, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless
- 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
- Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO
- Playlist Format: WPL, M3U

### iTunes Server Support

- Audio Format<sup>(6)</sup>: MP3, M4A, M4P, WAV, AIF
- Video Format: M4V, MOV, MP4
- 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 Support

- Video Format<sup>(7)</sup>: 3GP, 3GP, ASF, AVI, DAT, DivX, FLV, M4V, MOV, MP4, MPEG, MPG, QT, WMV, XviD, RM, RMBV, VOB
- Image Format: BMP, JPG (jpe, jpeg), GIF

### Management

- AJAX-based Management UI
- Wake on LAN/WAN
- Sub-folder Privileges Setting
- User Home
- Applications privileges Setting
- BitTorrent Port Range Setup
- BitTorrent DHT Support
- Changing Management UI Ports
- 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 (eSATA, USB)
- Scheduled Power On/Off
- Firmware Upgrade
- FTP passive port range
- Hide-able Shared Folder
- Internal HDD Hibernation
- Movable Shared Folder
- Removable Default Shared Folder
- System Temperature
- DDNS
- PPPoE
- Resource Monitor
- SMS Notification
- SNMP
- UPS Management (Over USB 2.0)
- User Quota
- Web-based Download Station

### RAID/Storage Management

- Volume Type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spares, RAID 6, RAID 10
- Upgrade from Basic to RAID 1, from Basic to RAID 5, from RAID 1 to RAID 5, from RAID 5 to RAID 5+Spares
- Expand RAID 1, RAID 5, RAID 5+Spares or RAID 6 with Larger Hard Drives
- Expand RAID 5 by Adding a Hard Drive On The Fly
- iSCSI

### Backup Solutions

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

### Supported Clients

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

### Supported Browsers

- Internet Explorer 7 and onward
- Firefox 3 and onward
- Safari 3 and onward (Mac)

### Supported Mobile Devices (Photo Station, File Station)

- iPhone OS 2.2.1 and onward
- Windows Mobile 6.0 (IE Mobile or Opera 9.0 onward)
- Symbian OS 9.1, S60 3rd Edition onward

### Printer Support<sup>(8)</sup>

- Max Printer #: 2
- Supported Protocols: LPR, CIFS, AppleTalk

### Languages

- English, German, French, Italian, Spanish, Danish, Norwegian, Swedish, Dutch, Russian, Japanese, Korean, Czech, Polish, Traditional Chinese, Simplified Chinese, Portuguese (Brazil), Portuguese (European), Turkish, and Hungarian

### Environment

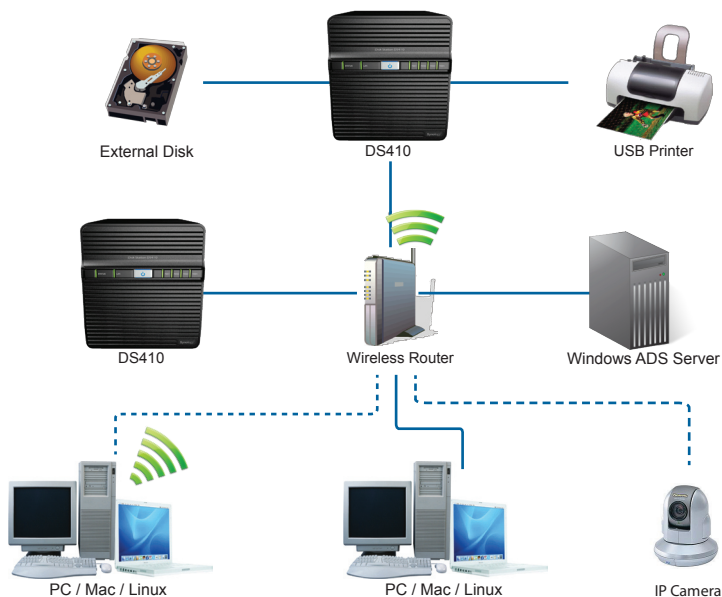
- RoHS Compliant

### Package Content

- DS410 Main Unit
- Installation CD
- Welcome Note
- Assembling Kit
- AC Power Adapter
- AC Power Cord
- 2M RJ-45 LAN Cable

- (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) The actual capacity will differ according to volume types.  
 (4) 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.  
 (5) Measured with 4 Seagate 750GB ST3750640NS hard drive. The figures could vary on different environments.  
 (6) The music can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.  
 (7) User can click and download the file, but not play it in Photo Station 3 as compressed Flash video.  
 (8) For Mac users, the Synology DS410 supports PostScript USB printers only.

## Networking



## 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) server 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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