



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
- 256-bit AES (Advanced Encryption Standard) Hardware Encryption Engine
- 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.

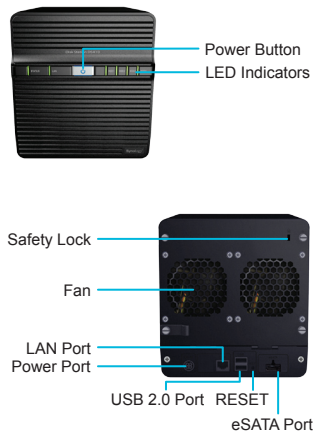
DSM 2.3 users are encouraged to develop and install third-party applications on the Synology DS410. Meanwhile, a list of third-party applications that were tested by Synology is available for users to install on the Synology DS410.

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



Technical Specifications

Hardware

- CPU Frequency: 1.06GHz
- Floating Point: Yes
- Memory Bus: 64bit@DDR533
- Memory: 512MB
- Internal HDD¹: 3.5" SATA(II) X4 or 2.5" SATA/SSD X4
- Max Internal Capacity: 12TB (4x 3TB hard drives)*
- Size (HxWxD): 168mm X 184mm X 230mm
- External HDD Interface: USB 2.0 port X2, eSATA port X1
- Weight: 2.23kg
- LAN: Gigabit X1
- Wireless Support²
- Hardware Encryption Engine
- Wake on LAN/WAN
- Noise Level³: 21.9 dB(A)
- Power Recovery
- AC Input Power Voltage: 100V to 240V
- Power Frequency: 50Hz to 60Hz, Single Phase
- Power Consumption⁴ 56W(Access); 20W(HDD 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 Station 3

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

Web Station

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

Surveillance Station 4

- Default IP cam #: 1
- MAX IP cam # (licenses required): 12⁵

Photo Station 4

- 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, RM⁶, RMVB⁷, VOB⁸, RV30⁹, RV40⁹, AC3⁹, AMR⁹, WMA3⁹

Download Station 2

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

Audio Station 2

- 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

- 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, RV30, RV40, AC3, AMR, WMA3
- Supported Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO, RAW (arw, srf, sr2, dcr, k25, kdc,

- cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rw2, dng, x3f)
- Supported Subtitles Format: srt, psb, smi, ass, ssa, sub, idx,ifo

iTunes Server

- Supported Audio Format: MP3, M4A, M4P, WAV¹, AIF²
- Supported Video Format: M4V, MOV, MP4
- Supported Playlist Format: M3U, WPL

Printer Server⁸

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

Synology Packages

- SqueezeCenter
- Mail Station
- Webalizer
- phpMyAdmin

iPhoto Servers

- DS photo
- DS audio
- DS cam

General Specifications

Networking Protocols

- CIFS, AFP, FTP, iSCSI, Telnet, SSH, NFS, SMB

File System

- EXT3
- FAT32 (External Disk Only)⁹
- NTFS (External Disk Only)⁹

Volume Management

- Synology Hybrid RAID
- iSCSI Target (Max size: 16TB):10
- Volume Type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, RAID 6, RAID 10
- RAID Migration: from Basic to RAID 1, Basic to RAID 5, Basic to RAID 5+Spare, RAID 1 to RAID 5, RAID 1 to RAID 5+Spare, RAID 5 to RAID 5+Spare, RAID 5 to RAID 6
- Expand RAID 1, RAID 5, RAID 5+Spare or RAID 6 with Larger Hard Drives
- Expand RAID 5 by Adding a Hard Drive On The Fly

File Sharing Capability

- Max User Accounts: 2,048
- Max Groups: 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
- Computer Backup
- Time Machine Backup (Mac)

Security

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

Management

- Firmware Upgrade
- Email Notification
- SMS Notification
- Customized User Quota
- DDNS Support
- PPPoE
- Resource Monitor
- UPS Management
- Scheduled Power Off
- Custom Management UI HTTP/HTTPS Ports

HDD Management

- HDD Hibernation
- S.M.A.R.T.
- Dynamic Bad Sector Mapping

Utilities

- Synology Assistant
- Synology Download Redirector
- Synology Data Replicator 3

Supported Clients

- Windows 2000 onward
- Mac OS X 10.3 onward
- Ubuntu 9.04 onward

Supported Browsers

- Internet Explorer 7
- Internet Explorer 8
- Firefox 3
- Firefox 3.5
- Safari 3 (Mac)
- Safari 4 (Mac)

Supported Mobile Devices (Photo Station, File Station)

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

Environment and Packaging

Environment

- RoHS Compliant

Package Content

- Main Unit

Installation CD

- Assembling Kit
- AC Power Adapter
- Power Cord

2M RJ-45 LAN Cable

- Optional Accessories**
- Remote
 - Camera License Pack

1. Hard drive not included.
2. Wireless dongles not included. Please check <http://www.synology.com/> for supported wireless dongles.
3. Fully loaded with Seagate 1TB 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: 17.2 dB(A); Temperature: 23.6°C; Humidity: 58.2%; More

- details about dB(A) value, check: <http://www.quietnoise.com/facts.htm>
4. Measured with 4 Seagate 750GB ST3750640NS hard drive. The figures could vary on different environments.
 5. 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.
 6. User can click and download the file, but not play it in Photo

- Station as compressed Flash video.
7. The music can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.
 8. For Mac users, DS410 supports PostScript USB printers only.
 9. Primary partition only.
 - * The actual capacity will differ according to volume types.

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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