

DiskStation DS411slim

Green, Quiet, and Reliable 4-bay 2.5" HDD NAS Server for Home to Small Office



Synology DiskStation DS411slim is designed to provide users with a compact yet feature laden solution for easy file sharing and backup. Snap-in 2.5" hard drives design brings low power consumption, quiet operation, reliability and easy disk replacement in a compact size. The operating system, Synology DiskStation Manager 3.0, delivers rich features for multimedia enjoyments, Internet sharing, worry-free data protection and energy-saving options.

Highlights

- Small Footprint
- Flexible RAID Data Protection
- Cross Platform File Sharing & Backup
- DLNA Certified Media Server
- · Cool and Quiet
- Power-Saving (9W~16W)

Green, Quiet, and Reliable

The Synology DS411slim is designed to work with 2.5" hard drives. The low power consumption characteristic of 2.5" hard drives will lower your electricity bill, as well as reduce your carbon footprint. In addition, 2.5" hard drives have reduced vibration, increased MTBF (mean time before failure), and shock tolerance. It not only extends hard drive's lifespan, but also provides better reliability. The smart fan design keeps the DS411slim's fan off under normal operations and spinning up at a very low speed only when needed, thus minimizing the noise level.

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.

Cross Platform File Sharing & Backup

Synology DiskStation is designed for data storage and sharing among Windows, Mac, and Linux. Seamless file sharing across different operation systems is an effortless process. Internet file access is simplified by the encrypted FTP server, the web-based File Browser and File Station. HTTPS, firewall, and IP auto-block support ensure file sharing over the Internet is protected at a high security level.

The Synology DS411slim offers a centralized backup target to consolidate fragmented and unstructured data across a network. PC Users can back up their data to the Synology DS411slim 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 DS411slim 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.

Your Own Entertainment Center

<u>Download Station</u> functions as a 24x7 BitTorrent, FTP, HTTP, eMule, and NZB download center without a PC. The eMule download engine allows search-n-download capability with a web-browser without installing additional desktop applications.

<u>Audio Station</u> supports music, Internet radio stations, and iPod playback with the optional speakers. An optional direction-free Synology Remote allows you to freely enjoy your music. Streaming mode allows your music to be shared with multiple users over the Intranet or Internet.

<u>DLNA/UPnP Compliant Media Sever</u> allows you to stream multimedia files with an UPnP Digital Media Adapter (DMA) to a stereo system or a TV-set. Sony PS3 and Microsoft Xbox360 are also supported.

<u>iTunes® Server</u> is an easy way to share music with other iTunes clients over the network. Password protection prevents unauthorized sharing.

Eco Friendly

Synology DiskStation is designed and developed perpetually with the concept of energy saving. Compared with average PC counterparts, Synology DiskStation 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 DiskStation truly earns the title of "green product" because of the unique Scheduled Power On/Off feature.

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







Technical Specifications

Hardware

- CPU Frequency: 1.6GHz
 Memory: DDR3 256MB
 Internal HDD': 2.5° SATA X4
 Max Internal Capacity: 4TB (4X 1TB HDD)²
 Size (HxWXD): 120mm X 105mm X 142mm
 External HDD Interface: USB 2.0 port X2, eSATA port X1
 Weight: 0.66kg
 LAN: Gigabit X1
 Wireless Support³

- Noise Level⁴: 21.1 dB(A)
- Noise Level*: 21.1 dB(A)
 Power Recovery
 AC Input Power Voltage: 100V to 240V
 Power Frequency: 50Hz to 60Hz, Single Phase
 Power Consumption:
 Access: 16BW
 Idle: 13.2W
 HDN Hilbarnation: 9 6W

- HDD Hibernation: 9.6W 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, SSMI Class B

Applications

File Station 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

- MAX IP cam # (licenses required): 86

Photo Station

- "Photo Station
 Supported Image Format: BMP, JPG (jpe, jpeg), GIF, RAW
 (arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf,
 3ff, erf, mef, nos, orf, rw2, dng, xsf)
 Supported Video Format: 3G2, 3GP, ASF, AVI, DAT, DivX,
 FLY, MAY, MOV, MPA, MPEG, MPG, CJT, WMX, XwD, RW,
 RMVB', VOB', RV30', RV40', AC3', AMR', WMA3'

Download Station

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

- Mudio Station
 Supported Audio Format: (USB Mode) AAC, FLAC, M4A, M83, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) M93, M4A, M4B
 Supported Playlist Format M3J, 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
- 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, AC2, AMR, WMA3
 Supported Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSO, TIF (tift), LPG, 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, WAV6, AIF
 Supported Video Format: M4V, MOV, MP4
 Supported Playlist Format: M3U, WPL

- Printer Server⁹
 Max Printer #: 2
 Printing Protocols: LPR, CIFS, AppleTalk

Synology Packages

- SqueezeCenter Mail Station
- Webalizer
- phpMvAdmin
- Time Backup

iPhone / Android Applications

- DS photo+
 DS audio

General Specifications

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

File System • EXT4 • EXT3

- FAT32 (External Disk Only)¹⁰
 NTFS (External Disk Only)¹⁰

- Volume Management
 Synology Hybrid RAID

 Max ISCSI Target / LUN: 10 / 10

 Volume Type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID
 5+5pare, RAID 6, RAID 10

 RAID Migration: from Basic to RAID 1, Basic to RAID 5,
 Basic to RAID 5+5pare, RAID 1 to RAID 5, RAID 1 to RAID
 5+5pare, RAID 5 to RAID 5+5pare, RAID 5 to RAID 6

 Expand RAID 1, RAID 5, RAID 5+Spare or RAID 6 with
 Larger Hard Drives
- 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): 128

Windows Access Control List (ACL)

Environment and Packaging

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)
- Time Backup (Synology package. Max task number: 2)
- Time Machine Backup (Mac) USBCopy

- Security
 FTP over SSL/TLS

- FIP Over SSL/TLS
 IP Auto-Block
 Firewall
 Encrypted Network Backup over Rsync
 HTTPS Connection
- Management
 DSM Upgrade
- Email Notification SMS Notification
- Customized User Ouota
- DDNS Support PPPoE
- Resource Monito
- UPS Management
 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 Download Redirector
 Synology Data Replicator
- Supported Clients
- Windows 2000 onward
 Mac OSX 10.3 onward
- Linux

Supported Browsers

- Chrome 5
 Internet Explorer 7 and 8
 Firefox 3.5
- Safari 4 and 5 (Mac)

Supported Mobile Devices (Photo Station, File Station) Phone OS 2.2.1 onward Android OS 1.5 onward Windows Mobile (Et Mobile or Opera 9.0 onward) Symbian OS 9.1, 560 3rd Edition onward

Language

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

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

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http://www.synology.com

users and families.

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RoHS Compliant Package Content Main Unit (Base X1 included) Installatin DVD

Environment

- Hard drive not included.
 The actual capacity will differ according to volume types.
 Wireless dongles not included. Please check http://www.synology.com/ for supported wireless dongles.
 Fully loaded with Seagate 230 GS 179500225AS 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 resr, Background.
- · Assembling Kit
- AC Power Adapter
 AC Power Cord
 2M RJ-45 LAN Cable

- noise: 17.2 dB(A); Temperature: 23.6°C; Humidity: 58.2%. More details about dB(A) value, check: http://www.memtechacoustical.com/facts.asp Measured with 4 Seagate 3206 B 7193 2032 5AS hard drive. The figures could vary on different environments. I free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.

Optional Accessories

- Remote
 Camera License Pack

- User can click and download the file, but not play it in Photo Station as compressed Flash video.
 The music can be streamed, but the metadata (ex: title, album) may not be indexed on the Tiunes.
 For Mac users, DS411 slim supports PostScript USB printers only.
 ID-Primary partion only.



IP Camera

PC / Mac / Linux