



# DiskStation DS411j

Budget-friendly 4-bay NAS Server for Small Office and Home Use

Synology DiskStation DS411j is designed to provide a cost-effective file storage and backup solution with RAID protection for multi-user home environments. The operating system, Synology DiskStation Manager, delivers rich features for multimedia enjoyments, worry-free backup, Internet sharing, and energy-saving options.

# **Key Features**

- Large Storage Capacity
- Secure RAID Data Protection
- 24/7 PC-Less Download Server
- DLNA Certified Media Server
- Cool and Ouiet

## **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.

# **Back Up Your Precious Data**

<u>DiskStation Manager</u> offers comprehensive solutions for you to back up data stored on DiskStation or your desktop computer to the DiskStation.

<u>Server backup</u> includes two alternatives: Network Backup and Local Backup. Both allow you to back up data in the shared folders and databases. Incremental backup option and flexible schedules are available. All can be easily configured with a step-by-step wizard.

<u>Desktop backup</u> provides your Windows PC with <u>Synology Data Replicator</u> for backing up desktop data, Outlook, and Outlook Express emails to your DiskStation by choosing one of the three backup modes: Immediate, Sync, and Scheduled backup, while Mac OS X users can use <u>Apple Time Machine</u> backup application to back up their critical data to DiskStation.

## **Enrich Your Web Presence**

<u>Photo Station</u> simplifies photo, video, and blog sharing over the Internet. The flexibility of photo theme customization, blog layout arrangement, visitor's privilege setting, RSS feed, and the dazzling 3-dimentional photo browsing with Cooliris make Photo Station your state-of-the-art lifestyle sharing center on the Internet.

<u>Web Station</u> with built-in PHP+MySQL allows you to publish your own websites or install numerous popular open source programs.

## **Access With Your Mobile Device**

The iPhone and Android App, <u>DS audio</u>, allows you to stream music stored on your DiskStation with your mobile devices where Internet access is available, while <u>DS photo+</u> allows browsing and uploading photos and videos stored on DiskStation from your mobile devices.

If you own a mobile device running on Windows Mobile® 6.0, iPhone OS 2.2.1 onward, or Symbian OS 9.1, you can log on your DiskStation to view photos with <u>Mobile Photo Station</u> and read supported file formats with <u>Mobile File Station</u> wherever Internet access is available.

# **Synology Protects Our Earth**

Synology DiskStation is designed and developed with energy efficiency in mind. Compared with the average PC counterparts, Synology DiskStation consumes a relatively low amount of power and makes the external hard drives hibernate when not in use. 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 Clock Rate: 1.2GHz, 16bit@DDR800
- CPU Clock Rate: 1.2GHz, 16bH@DDR800
   RAM Size: DDR2 128MB
   Internal HDD¹: 4X 3.5"or 4X 2.5"SATA(II)
   External HDD Interface: 2X USB ports
   Size: 168mm X 184mm X 230mm
   Weight: 2.23kg
   LAN: 1X Gigabit

- Applications

- Hardware Encryption Engine
   Wireless Support
   Fan: 2X (80mm X 80mm)
   Noise Level<sup>1</sup>: 21,7dB(A)
   AC Input Power Voltage: 100V to 240V
   Power Frequency: 50Hz to 60Hz, Single Phase
   Max Internal Capacity: 12TB (4X 3TB hard drives)<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': 42.9W (Access); 16W (HDD Hibernation)
  Certification: FCC Class B, CE Class B, BSMI Class B

## File Browser / File Station

- FTP Server

  Bandwidth Control

  Custom FTP Passive Port Range
- Anonymous FTP
   Transfer Log

## Web Station

- 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): 56

- Photo Station
  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, FLY, M4V, M0V, MPA, MPEG, MPG, OT, WMV, XviD, RM, 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

- 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, Radioic

## DI NA/UPnP Media Server

- DLNA/UPnP Media Server
  DINA Certified
  PS3/Xbox 360 Support
  Supported Audio Format: AAC, FLAC, M4A, MP3,
  Ogg, Vorbis, PCM, WAV, WMA, WMA WBR, 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, OT, 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<sup>8</sup>: MP3, M4A, M4P, WAV, AIF
- Supported Video Format: M4V, MOV, MP4
   Supported Playlist Format: M3U, WPL

# Print Server<sup>9</sup> • Max Printer #: 2

Printing Protocols: LPR, CIFS, AppleTalk

- Synology Packages

  Mail Station

  Squeezebox Server

  Webalizer

  phpMyAdmin

  Time Backup

### iPhone and And id Applications

- DS photo+DS audio
- DS cam

## **General Specifications**

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

# File System • EXT4 • EXT3

- FAT32 (External Disk Only) <sup>10</sup>
   NTFS (External Disk Only)<sup>11</sup>

- NITD (External LISK Only)\*
  Volume Management
  Synology Hybrid RAID
  Max ISCSI Target / LUN: 10 / 10
  Max ISCSI Target / LUN: 10 / 10
  NAID (See Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, RAID 6, RAID 10, RAID 11, RAID 5H, SPARE RAID 5+Spare, RAID 5 To RAID 5, RAID 11 to RAID 5, RAID 11 to RAID 5+Spare, RAID 5 to RAID 6+Spare, RAID 5 to RAID 6+Spare, RAID 5 to RAID 6+Spare, RAID 5 to RAID 6+Spare AID 5 to RAID 6+Spare AID 5 to RAID 6+Spare or RAID 6 with

## Larger Hard Drives File Sharing Capability

- Max User Account: 1024
   Max Group: 256
- Max Shared Folder: 256 Max Concurrent Connections (SAMBA, FTP, AFP): 128

## Windows Access Control List (ACL) Support

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

# Environment

- Package Content
  DS411j Main Unit
  Installation DVD

- Backup Solutions

  Network Backup

  Local Backup

  Desktop Backup (using Synology Data Replicator 3 or Apple Time Machine backup application)
- Time Backup (Synology package)
- 3rd-Party Backup Supp

- Security
  FTP over SSL/TLS
  P Auto-Block
- Firewall
- Encrypted Network Backup over Rsynd
   HTTPS Connection

- Management
  DSM Upgrade
  Email Notification
  SMS Notification
  Customized User Quota
- DDNS Support
- IPv6 Support PPPoE
- Resource Monitor
- Resource Monitor
  UPS Management
  Scheduled Power On/Off
  Custom Management UI HTTP/HTTPS Ports

# HDD Managemen

- S.M.A.R.T.
   Dynamic Bad Sector Mapping
- Utilities

- Synology Assistant
   Synology Download Redirector
   Synology Data Replicator
- Support Browsers

- Internet Explorer 7 and 8
- Firefox 3.5 and 3.6
  Safari 4 and 5 (Mac)

- Supported Clients

  Windows 2000 onward

  Mac OS X 10.3 onward

  Ubuntu 9.04 onward
- Supported Mobile Devices (Photo Station, File Station)
- iPhone OS 2.2.1 onward Android OS 1.5 onward Windows Mobile (IE Mobile or Opera 9.0 onward)
- Symbian OS 9.1, S60 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, Turkish

# **Environment and Packaging**

- RoHS Compliant

- Hard drive not included.
   Wireless dongles not included. Please check http://www.synology.com/ for supported wireless dongles.
   Fully loaded with Seagate ITB \$31100052045 hard drive(s) in operation; Two G.R.A.5. Type 40AE microphones, each set up at 1 meter away from the DisKstoin front and rear Background noise: 17.2 dB/A); Temperature: 23.6°C; Humidity; 58.2%.
- · Welcome Note

PC / Mac / Linux

- Assembling Kit
   AC Power Adapter
   AC Power Cord
- 2M RJ-45 LAN Cable
- The actual capacity will differ according to volume types.

  Measured with 4 Seagate 750GB ST3750640NS hard drive. The figures could vary on different environments.

  1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota. User can click and download the following video formats: RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3, but not able to play it

# **Optional Accessories**

- Remote Camera License Pack

- in Photo Station as compressed Flash video.

  8. The music in VMV and Alf Format can be streamed, but the metadata Exe: title, albumi may not be indexed on the Titunes.

  9. For Mac users, DS411] supports PostScript USB printers only.

  10. Primary partition only.

  11. Primary partition only.

Stereo System

# 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 custome service to satisfy the needs of businesses, home offices, individual users and families.

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descriptions at anytime, without notice

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North & South America



IP Camera

TV