



# Synology DiskStation DS111

Feature-rich 1-bay NAS Server for Workgroups and Offices

Synology DiskStation DS111 is an affordable and full-featured 1-bay NAS server designed to increase productivity for business workgroups. Cross platform file sharing, rich office applications, data backup and security are easily achieved in a flexible solution. Running on DiskStation Manager 3.0 (DSM 3.0) operating system, it delivers ease of use and variety of features.

### Highlights

- Optimal Price/Performance Ratio
- Windows+Mac+Linux Cross Platform File Sharing
- · Rich Office Applications
- Effortless File Backup
- Peace of Mind with AES 256-bit Share-level encryption

### **Optimal Price/Performance Ratio**

The Synology DS111 delivers an average 105.59 MB/sec reading speed in a Windows environment, and 60.71 MB/sec writing. The Synology DS111 provides a reliable solution for data sharing with an easy to use interface, and comprehensive office applications, including a complete backup solution making it one of the best values in 1-bay NAS devices available today.

### **Easy Setup and Management**

Synology DSM 3.0 operating system offers intuitive and easy-to-use web experience. 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 DS111 from the Internet. The EZ-Internet Wizard steps through all of the settings including firewall settings, port-forwarding, PPPoE setup and DDNS registration.

The multi-tasking web UI on DSM 3.0 lets users to run multiple applications simultaneously on one tab browser and switch between them instantly. User Home feature makes creating private shared folders for a large number of users an easy task as it minimizes the steps and time for the administrator to create private shared folders. Sub-folder privilege settings further extend the flexibility to allocate permissions for different workgroups. All of these features are performed in a web browser, akin to a full desktop experience.

### Windows+Mac+Linux Cross Platform File Sharing

Synology DS111 is designed for data storage and sharing among Windows, Mac, and Linux. Seamless file sharing across different operation systems is an effortless process. Windows ADS integration allows the Synology DS111 to quickly and easily fit into an existing network environment with no need to recreate user accounts on the Synology DS111.

### Peace of Mind with Data Encryption

Data protection is an important matter for business of all sizes. Synology DS111 comes with share-level AES 256-bit encryption to aid in the prevention of unauthorized access attempts to the hard drives.

### **Rich Office Applications**

Synology Mail Station add-on provides a one step installation and enables Synology DS111 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 DS111. The built-in PHP+MySQL provides the ability to create interactive websites without complicated settings.

Synology DS111 supports two USB printers simultaneously as a Print Server, and the Add Printer Wizard simplifies setup process with a wizard.

### **Effortless File Backup**

The Synology DS111 offers a centralized backup target to consolidate fragmented and unstructured data across a network. PC Users can back up their data to the Synology DS111 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 DS111 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.

### **Eco Friendly**

Synology DiskStation is designed and developed perpetually with the concept of energy saving. Compared with average PC counterparts, Synology DS111 consumes a relatively low amount of power in operation (18.7W) and has the HDDs hibernate when not in use (7.7W). This not only helps to save energy but also extends the lifespan of the hard disk. 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**





### **Technical Specifications**

### Hardware

- CPU Frequency: 1.6GHz
  Memory Bus: 16bit@DDR1066
  Memory: 256MB
  Internal HDD: 1X 3.5" SATA(II) or 1X 2.5" SATA/SSD using Synology Disk Holder Type C
  Max Internal Capacity: 3TB
  Size (HAWIXD): 160mm X 63mm X 218mm
  External HDD Interface: USB 2.0 port X3 ESATA port x1

- Weight: 0.81 Kg
  LAN: Gigabit X1
  Wireless Support<sup>2</sup>
  Hardware Encryption Engine
  Fan: X1(50x50x20mm)
  Power Recovery
  A Clinput Power Voltage: 100V to 240V
  Power Frequency: 50Hz to 60Hz, Single Phase
- · Power Consumption3: 18.7W (Access); 7.7W (HDD

- Power Consumption: 18.7W (Access); //W (HUL) 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 Browser / 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

- Default IP cam #: 1
   MAX IP cam # (licenses required): 84
- Photo Station
- hoto 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, mos, orf, rw2, dng, xsf)
  Supported Video Format': 3G2, 3GP, ASF, AVI, DAT, DIVX,
  FILY, MAY, MOV, MPA, MPEG, MRPC, QT, WMX, 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, Radioio

- DLNA/UPnP Media Server
- DLNA Certified PS3/Xbox 360 Support
- P.53/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, MZT, MZTS, MAV, MRV, MP4, MPEG1, MPEG2, MP6c4, MTS, MOV, GT, SWF, TB, TRS, YOB, WMV, XVID, RV3O, RV4O, 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>6</sup>: MP3, M4A, M4P, WAV, AIF

   Supported Video Format: M4V, MOV, MP4

   Supported Playlist Format: M3U, WPL

- Print Server<sup>7</sup>
   Max Printer #: 2
- Printing Protocols: LPR, CIFS, AppleTalk

- Synology Packages
   Mail Station
- Squeezebox Server
   Webalizer
- phpMyAdmin Time Backup

### iPhone and Android Applications

### **General Specifications**

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

- File System
- EXT4
   EXT3
   FAT32 (External Disk Only)<sup>8</sup>
- · NTFS (External Disk Only)

### Volume Management

- Max iSCSI Target / LUN: 10 / 10
   Volume Type: Basic

### Windows Access Control List (ACL) Support

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

- Backup Solutions
- Network Backup
   Local Backup
- Apple Time Machine backup application)

  3rd-Party Backup Support

**Environment and Packaging** 

- File Sharing Capability

   Max User Account: 2048

   Max Group: 256

   Max Sharef Folder: 256

   Max Concurrent Connections (SAMBA, FTP, AFP): 128

Environment
RoHS Compliant

Package Content
DS111 Main Unit · Installation DVD

Desktop Backup (using Synology Data Replicator 3 or

Hard drive not included.
 Wireless dongles not included. Please check http://www.synology.com/ for supported wireless dongles.
 Measured with 2 Seagate 750GB 513750640NS hard drive. The figures could vary on different environments.
 I fee license to install 1 IP camera. Additional licenses can be

PC / Mac / Linux

- Encrypted Network Backup over Rsync
   HTTPS Connection
- Management
  DSM Upgrade Email Notification

Security
FTP over SSL/TLS
IP Auto-Block
Firewall

- Email Notification
   SMS Notification
   Customized User Quota
   DDNS Support
   PPPOE
   Resource Monitor
   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

purchased to expand the license quota.

porturbate 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 in Photo Station as compressed Flash video. The music in WAV and Alf Format can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.

Welcome Note
 Assembling Kit
 AC Power Adaptor
 AC Power Cord
 2M RJ-45 LAN Cable

### Supported Browsers

- Chrome 5
   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)

**Optional Accessories** Synology Remote Camera License Pack

- upported woone bevices (Floto Station, File S 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

For Mac users, DS111 supports PostScript USB printers only.

IP Camera

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

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# Networking Synology USB Remote 1 Speakers External Disk DS111 USB Printer DS111 Windows ADS Server Wireless Router

PC / Mac / Linux

# http://www.synology.com

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