# Disk Station DS509+

Scalable 5-bay SATA NAS Server for Corporate Users



### **Key Features**

- High Speed
   39+ MB/Sec RAID 5 Write
   55+ MB/Sec RAID 5 Read
- Hot-swappable HDD Design
- 2 Gigabit LAN Ports
- Windows + Mac + Linux
- Power Saving (30W~69W)

### Shipped with Disk Station Manager 2.1 that provides:

- AJAX-Based Management Interface
- Windows ADS Support
- Business Mail Server
- Corporate Surveillance
- Schedule Power On/Off

And more ...

Synology Disk Station DS509+ offers PC server equivalent performance for efficient data sharing and backup. Its high performance coupled with sophisticated Synology Disk Station Manager 2.1 provides an ideal solution for cross platform sharing, secure server backup, Windows ADS integration, business mail server, and corporate surveillance. The plug-n-use Synology DX5 easily expands the DS509+'s storage capacity up to 10 hard drives on the fly.

### Corporate IT Management

Synology Disk Station DS509+ supports various volume types, like basic, RAID 0/1/5/6, and RAID 5+Spare to fit users' needs. Advanced operations allow RAID expansion and RAID type changing to provide flexible management experience.

S.M.A.R.T. is a monitoring system for hard drives used to detect and report various attributes of reliability, helping to anticipate malfunctions.

UPnP support allows users to stream multimedia files with an UPnP Digital Media Adapter (DMA) on a stereo system or a TV-set. Sony PS3 and Microsoft Xbox360 are also supported.

The Link Aggregation feature provides share-loading and failover support for Synology Disk Station DS509+.

### Affordable Scalability

When running out of the hard drive capacity on Synology Disk Station DS509+, users can expand more storage with Synology DX5. By attaching it to Synology Disk Station DS509+, the plug-n-use connectivity and eSATA 3.0 Gb/sec definition allow users to expand volume from Synology Disk Station DS509+. No firmware installation is needed.

### Perfect Backup Solution

Synology Network Backup allows users to back up files from one to another Synology Disk Station or any rsynccompatible server, the Local Backup allows backups to external hard drives via USB or eSATA, both providing flexible scheduling options.

The Local Backup provides Synology Disk Station DS509+ with the ability to back up data to a shared folder or, to external USB or SATA hard drives.

Synology DX5 delivers a perfect backup solution for Synology Disk Station DS509+, too. By attaching it to Synology Disk Station DS509+, the plug-n-use connectivity and eSATA 3.0 Gb/sec definition allows users to create an independent volume on the DX5 as a good backup target. No firmware installation is needed.

### Eco Friendly

Synology Disk Station is designed and developed perpetually with the concept of energy saving. Compared with average PC counterparts, Synology Disk Station DS509+ 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.

Additionally, 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.

Internal HDD Hibernation

Ez-Internet

from 4 to 5

**Backup Solutions** 

Replicator 3)

Supported Clients

Printer Support<sup>®</sup>

Environment

RoHS Compliant

DS509+ Main Unit
Installation CD

Welcome Note

Assembling Kit
AC Power Cord
2M RJ-45 LAN Cables

Package Content

Linux

3rd-Party Backup Support

Windows 2000 onward Mac OS X 10.3 onward

Network Backup

PPPoE

Removable Default Shared Folder

UPS Management (Over USB 2.0)

RAID ManagementVolume Type: Basic, JBOD, RAID 0, RAID 1,

RAID 5, RAID 5+Spare, RAID 6 RAID Change: Basic to RAID 1, RAID 1 to RAID 5, RAID 5 to RAID 5+Spare

Expand with Larger Hard Drives: RAID 1, RAID 5, RAID 5+Spare, RAID 6
Expand with More Hard Drive: RAID 5 from

3 to 4 HDDs, RAID 5 from 4 to 5 HDDs, RAID 5+Spare from 4 to 5 HDDs, RAID 6

Local Backup Desktop Backup (using Synology Data

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

Languages

 English, Danish, Dutch, Norwegian, Swedish,

German, French, Italian, Polish, Russian,

Spanish, Korean, Traditional Chinese, Simplified Chinese, Hungarian, Turkish,

Portuguese Brazil, Portuguese European

User QuotaWeb-based Download Station

### **CONNECTIONS & BUTTONS**

### LED Power Button 0 0 0 0 2 Safety Lock HDD Tray



### **Technical Specifications**

### Hardware

- CPU: 1.06GHz, 64bit@DDR533, with floating noint
- RAM Size: 1GB Internal HDD <sup>(1)</sup>: 5X 3.5" SATA(II) External HDD Interface: 2X USB ports, 1X eSATA port Size: 177mm X 203mm X 242mm
- Weight: 4.75kg

- Weight: 4.75kg LAN: 2X (Sigabit Fan: 2X (80mm X 80mm) Noise Level <sup>(21</sup>, 26dB(A) Power Recovery AC Input Power Voltage: 100V to 240V Power Frequency: 50Hz to 60Hz, Single Phase
- Max HDD Support (Internal HDD): 2TB
- Max Supported IP Camera: 10 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

### FCC Class B, CE Class B, BSMI Class B

### Networking Protocols

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

- Windows ADS Integration
  Supports up to Windows Server 2008
  Domain users login via Samba/AFP/FTP
- Synology Data Replicator 3 for Domain Users
- Security
- 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 Read Only)

- File Sharing

  Max User Account: 2,048
  Max Group: 256
- Max Shared Folder: 256 Max Concurrent Connections (SAMBA, FTP,

## AFP): 512

Networking

- Utilities
- Synology Assistant
- Synology Data Replicator 3 Synology Download Redirector Add Printer Wizard

### Applications Surveillance Station 2

- Photo Station 3 File Station 2
- Audio Station
- Web Station
- PHP/MySQL
- Download Station 2 iTunes Server

## Packages Mail Station

- SqueezeCenter Weblizer

- UPnP Multimedia Service Support
- Sony PS3, Microsoft Xbox360 Audio Format: AAC, FLAC, M4A, MP3, Ogg Vorbis, WAV, WMA, WMA VBR, WMA PRO
- WMA Lossless Video Format: ASF, AVI, DAT, DivX, MP4,
- MPEG I, MPEG2, MPEG4, VOB, WMV, XviD Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO
- Plavlist Format: WPL, M3U Subtitle: srt, psb, smi, ass, ssa, sub, idx, ifo

iTunes Server Support

 Audio Format: MP3, M4A, M4P, WAV<sup>(4)</sup>, AIF<sup>(4)</sup> Plavlist 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, WPI

 Photo Station 3 Support
 Video Format: ASF, AVI, MPEG1, MPEG4, WMV, XviD, DivX, FLV, DAT<sup>(5)</sup>, MP4<sup>(5)</sup>, MPEG2<sup>(5)</sup>, RM(5), RMVB(5), VOB(5 Image Format: BMP, JPG (jpe, jpeg), GIF

- Management

  AJAX-based Management UI BitTorrent Port Range Setup
- BitTorrent DHT Support CIFS Recycle Bin
- Download Station Bandwidth control
- Download Station Port Range Setup Editable HTTP Error Page
- Email Alert Message
- Email Notification for New Use Package Management
- External HDD Hibernation
- Scheduled Power On/Off
- Firmware Upgrade
- FTP passive port range Hide-able Shared Folder

### hard drive. The figures could vary on different environments. environments. (4) The music can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes. (5) User can click and download the file, but not play it in Photo Station 3 as compressed Flash videc (6) For Mac users, DSS09+ supports PostScript USB printers only.

(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) Measured with 5 Seagate 750GB 5T3750640NS



### SYNOLOGY INC.

Synology Inc., founded in April 2000 by a duo experienced Synology Inc., founded in April 2000 by a duo experienced in system designing and marketing, is a dedicated Network Attached Storage (NAS) products provider located in the Taipei city, Taiwan. With a staunch and united team organization, Synology creates and brings forth NAS servers of originality Synology Disk Station, for the global market. Under the breezy yet conscientious team work, Synology embodies the spirit of vitality, creativity, specialty, and versatility, implanting a new breath into the staid NAS business. With our sustained and substantial investment in research and development. Synology substantial investment in research and development, Synology is pursing the laurels of contemporary NAS industry on an onal scale.

Synology NAS Servers are designed to fulfill its customers' need of security, performance, energy saving, and functionality on a broad range around the globe from prosumers to corporations. Moreover, to practice commitment made to its widespread customers and to provide every possible means of satisfactory services, Synology is using its best endeavors to the establishment a fully developed customer support and service team. Having a vision beyond the visible, Synology Disk Station signifies –Value.

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- 69W (Access); 30W (Hibernation)

- Certification