



## DiskStation DS413j

Synology® DiskStation DS413j is a budget-friendly 4-bay NAS server for small offices and home use, specifically designed to provide a solution for file storage and sharing with data protection for your home environment with low power consumption, quiet operation and reliability.

### Highlights

- **Optimal Price/Performance Ratio**
- **Effective Backup Solutions**
- **Hassle-free System Installation**
- **Running on Synology DiskStation Manager (DSM)**

### Build Your Own Cloud

With Synology DS413j, you can centralize and share up to 16TB of data and files with coworkers and friends. If you find this way of managing files useful, you can have your own cloud by using Cloud Station to access and sync files across different computers. There is no need to configure a router to remote access the DS413j, by using Synology's ezCloud, you can easily extend coverage to the Internet.

Manage your files on your Synology DS413j with File Station which provides easy file navigation on your DiskStation, allowing you to copy, move, delete, rename, upload, or download files without boundaries.

If you are always on the move, Synology provides a handy app, DS file for iPhone®, iPad® and Android™ users. Anything stored on Synology DS413j can now be accessed remotely using DS file via the Internet.

### Flexible Storage 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.

Multiple Volumes on RAID allows you to create more than one volume on a RAID structure, providing a flexible and efficient way to manage your storage across all available hard drives. When the need arises to expand the volumes, simply allocate more storage space on the UI, and DSM does the rest for you without any service disruption.

### Versatile Multimedia Center for Home

With the built-in media server on the DS413j, you can stream digital multimedia content from a Synology DiskStation to a media device such as a stereo system, Sony™ PlayStation® 3 and Microsoft® Xbox 360. You can also stream videos and music to a DLNA®/UPnP® compatible TV set so you can enjoy your favorite movies or TV shows that are stored on your DiskStation. Your living room just got better.

For fully digitized music listening experience from the comfort of your couch, by connecting DS413j to a home stereo system and using DS audio App for iPad, iPhone and Android, users can control music playback with simplicity.



**Figure 1) Media Server**

Music and videos on DS413j can be streamed to a DLNA/UPnP TV, so you can enjoy your favorite movies or TV shows without hassle.

## Share your Memories to Friends

Photo Station simplifies photo, video, and blog sharing to the public. Features such as theme personalization, blog, and user privilege settings make Photo Station your state-of-the-art lifestyle sharing center on the Internet. Photo Station syncs the album automatically to Facebook, so it is now even more closely intertwined with your social life.

## Your 24x7 Download Server

Download Station functions as a 24x7 BT, FTP, HTTP, eMule, and NZB download center without a PC. The eMule & BT search engine allows search-n-download capability without installing additional desktop applications.

RSS feed feature will bring the latest updates directly to you. You can subscribe to multiple RSS feeds that list the information of all your favorite downloads, and your download experience is entirely automated.

## Back up All Your Important Files

The Synology DS413j offers a centralized backup target to all your PC/Mac® computers in the house. PC Users can back up their data to the Synology DS413j 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 DS413j to another Synology DiskStation or to an external hard drive via USB connection.

## Hassle-free System Installation

Web Assistant is a web-based utility to make every DiskStation as easy to install as possible. Installation is done inside your existing web browser by setting up all vital system components in few simple steps. Combined with a quick start widget, users can simultaneously tour the DSM operating system and set it up to use right away.

## Peace of Mind with Data Encryption

The Synology DS413j is equipped with an encryption engine which offloads the encryption calculation task away from the main CPU, helping to improve file transfer speeds of the DiskStation.

Data protection is an important matter for businesses of all sizes. High-end features previously available only on enterprise level hardware are now accessible via Synology DS413j to small and medium-sized businesses.

DS413j provides share-level AES 256-bit encryption to aid in the prevention of unauthorized access attempts to the hard drives.

## Energy Efficient with Cool and Quiet Design

Synology DS413j is designed with energy efficiency in mind. Not only does it provide a larger fan and the smart airflow to keep the system running cool 24/7, its noise dampening design makes it really quiet (18.9 dB) compared to PC counterparts. The support of multiple 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	1.6GHz
Hardware Encryption Engine	Yes
RAM Size	DDR3 512MB
Internal HDD/SSD	3.5" or 2.5" SATA(II) X 4 (hard drives not included)
Max Internal Capacity	16TB (4X 4TB hard drives) (The actual capacity will differ according to volume types.)
External HDD Interface	2X USB 2.0 ports
Size (HxWxD)	184mm X 168mm X 230mm
Weight	2.23kg
LAN	1X Gigabit
Wake on LAN/WAN	Yes
Noise Level <sup>1</sup>	18.9 dB(A)
AC Input Power Voltage	100V to 240V
Power Frequency	50Hz to 60Hz, Single Phase
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
Power Consumption <sup>2</sup>	31.56 W (Access), 7.68 W (HDD Hibernation)

## Applications

File Station	Virtual Drive, Remote Folder
Backup Solutions	Network Backup, Local Backup, Desktop Backup (Window: Synology Data Replicator; Mac: Apple Time Machine backup application), Shared Folder Sync - Max Task Number : 2, Configuration Backup
Mail Server	Supported Mail Server Protocols : POP3, SMTP, IMAP
FTP Server	Bandwidth Control, Custom FTP Passive Port Range, Anonymous FTP, Transfer Log
Web Station	Virtual Host (up to 30 websites), PHP/MySQL®, 3rd-Party Applications Support
Printer Server	Max Printer #: 2, Printing Protocols: LPR, CIFS, IPP, Apple AirPrint™, Google Cloud Print™, Multi Functional Print Server (MFP functions are for Windows® PC only)
iOS/Android Applications	DS photo+, DS audio, DS cam, DS file, DS finder
Windows Phone Applications	DS finder

## Add-on Packages

Surveillance Station	Default IP cam #: 1, MAX IP cam # (licenses required): 5 (1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.)
Directory Server	LDAP Directory Server, Backup and Restore LDAP Database
VPN Server	Maximum Connections : 5, VPN Method: PPTP, OpenVPN™
DHCP Server	Independent DHCP Server on Different Network Interfaces, Multiple Subnets Support, Address Reservation
Syslog Server	SSL Connection, Log Rotation: 6 months, 1 year, 2 years, 3 years, Email Notification
Mail Station	Webmail Interface for Mail Server, Receiving Mails from Multiple POP3 Mailboxes, Customizable SMTP Server
Antivirus Essential	Full System Scan, Scheduled Scan, White List Customization, Virus Definition Auto Update
Time Backup	Maximum Task Number : 1, Multiple File Versions Retained, Instant File Restoration
Cloud Station	Maximum User Accounts : 8, Retain Historical and Deleted File Versions
DLNA/UPnP Media Server	PS3®/Xbox 360® Support
Download Station	Supported Download Protocols: BT/HTTP/FTP/NZB/eMule Maximum Concurrent Download Tasks : 20
Other Packages	Photo Station, Audio Station, iTunes® Server, 3rd-party packages

## General

Networking Protocols	CIFS, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN)
File System	EXT4, EXT3 (External Disk Only), FAT (External Disk Only), NTFS (External Disk Only)
Storage Management	Max File System Size: 16TB, Max Internal Volume #: 128, Max iSCSI Target #: 10, Max iSCSI LUN#: 10, Supported RAID Type : Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, RAID 6, RAID 10
File Sharing Capability	Max User Account: 1024, Max Group: 256, Max Shared Folder: 256, Max Concurrent CIFS/AFP/FTP Connections : 128
Privilege	Windows Access Control List (ACL)
Directory Service	Windows ADS Domain Integration, LDAP Integration
Security	FTP over SSL/TLS, IP Auto-Block, Firewall, Encrypted Network Backup over Rsync, HTTPS Connection
Utilities	Synology Web Assistant, Synology Assistant, Synology Data Replicator
Supported Clients	Windows XP onward, Mac OS X 10.5 onward, Ubuntu 9.04 onward
Support Browsers	Chrome, Internet Explorer®: 8, 9, Firefox®, Safari® (Mac): 5
Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

## Environment and Packaging

Environment	RoHS Compliant
Package Content	DS413j Main Unit, Installation Disc, Welcome Note, Assembling Kit, AC Power Cord, AC Power Adapter, RJ-45 LAN Cable X1
Optional Accessories	Remote, Camera License Pack
Warranty	2 years

\*Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. Fully loaded with Seagate® 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: 17.1 dB(A); Temperature: 24.2°C; Humidity: 63%; More details about dB(A) value, check <http://www.memtechacoustical.com/facts.asp>
2. Measured with 4 Western Digital® 3TB WD30EZRS hard drives. The figures could vary on different environments.

## SYNOLOGY INC.

Synology is dedicated to taking full advantage of the latest technologies to bring businesses and home users reliable and affordable ways to centralize data storage, simplify data backup, share and sync files across different platforms, and access data on-the-go. Synology aims to deliver products with forward-thinking features and the best in class customer services.

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