Synology®

DiskStation DS414j

Synology® DiskStation DS414j is a budget-friendly 4-bay NAS server specifically designed for small offices and home users to effectively manage, protect and share data. Equipped with comprehensive add-on applications, DS414j serves as your all-in-one network storage server for fun and for productivity.

Highlights

- **The First Synology j to Feature Dual Core CPU with Floating-Point Unit**
- **The First Synology j to Feature USB 3.0**
- **Over 112.28 MB/s Reading, 80.38 MB/s Writing**
- **Only 8.5W in HDD Hibernation**
- **Runs on Synology DiskStation Manager**

Absolutely Vintage, Perfectly Modern

A re-interpretation of one of Synology's most antique industrial design, DS414j comes with the latest storage technology to meet the need of both office and home users. Being the first Synology j series to feature dual core CPU and the SuperSpeed USB, DS414j delivers ground breaking performance in its tier: an average 112.28 MB/s reading in a Windows® environment, and 80.38 MB/s writing.[1] The built-in floating-point unit enhances the overall capability of the main CPU, and is particularly advantageous in speeding up thumbnail processing, making photo viewing a refreshingly new experience. The Synology DS414j 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. Running on Synology's award-winning DSM operating system, DS414j shares the rich reservoir of applications available in DSM Package Center.

Windows + Mac + Linux Cross Platform File Sharing

Synology DS414j offers comprehensive network protocol support, assuring seamless file sharing across Windows, Mac®, and Linux® platforms.Windows AD and LDAP integration allows Synology DS414j to fit quickly and effortlessly into any existing network environment, with no need to recreate user accounts. Internet file access is simplified by the encrypted FTP server and the web-based file explorer, Synology File Station. HTTPS, firewall, and IP auto-block support ensure file sharing over the Internet is protected at a high security level.

Cloud Station allows users to sync files among multiple devices, including Windows PC, Mac, Linux, iOS and Android™ tablets or phones, effortlessly keeping everything up-to-date.

Cross-platform File Synchronization

Auto-synchronize your files among DiskStation, PC and mobile devices using Synology Cloud Station.

Anytime Availability

Access your DiskStation anywhere using Synology mobile apps.

Effective Backup Solution

Synology DS414j offers a centralized backup target to consolidate fragmented and unstructured data across a network. PC users can back up their data to Synology DS414j using Synology Data Replicator software, and Mac OS X® users enjoy native Apple® Time Machine® integration.

A backup wizard is provided for backing up data from Synology DS414j to another Synology NAS, to other rsync servers, or to an external drive. Backing up to Amazon S3® and Glacier cloud service is also supported. Time Backup keeps DiskStation data in multiple versions, so IT administrators could easily keep track of them and restore to a previous version whenever required.

Shared Folder Sync allows users to synchronize a specific folder from Synology DS414j to another DiskStation – a server-to-client backup mechanism that takes place whenever something is changed on the server side. Users will be able to share documents within their local office seamlessly and safely with encrypted connection. When your DiskStation is down, you will be able to have an immediate backup running in no time.

Personal Multimedia Bank

With DS414j you can easily manage your multimedia contents and share them across Windows, Mac, and Linux platforms. Photo Station's intuitive design allows you to effortlessly organize photos into customized categories, smart albums and blog posts, and link them to social networking websites like Facebook, Twitter, Plurk and Picasa within a few clicks. Audio Station comes with built-in lyrics plugin, Internet radio, and support for DLNA®, AirPlay®, and Bluetooth speakers for quality playback. With Video Station, you can watch movies and TV shows online or record your favorite programs with a DVB-T or DVB-S stick.

Anywhere/Anytime Availability

Synology provides mobile applications that allow you to enjoy the full variety of your multimedia library even when on the go, allowing you to reach for your private albums, music and video collection at home in DS414j. Available on iOS, Android and Windows Phone platforms, DS photo+, DS audio, and DS video mobilize your Photo Station, Audio Station and Video Station, placing terabytes of content at your fingertips. What's more, DS download makes it possible for you to manage and monitor your download tasks remotely while you can access DS414j content with DS file whenever required.

Energy Efficient with Cool and Quiet Design

All Synology NAS is designed with energy efficiency in mind. Not only does DS414j provide two 80 X 80 mm fans and the smart airflow to keep the system running cool 24/7, its noise dampening design makes it really quiet compared to PC counterparts. The support of Wake on LAN/WAN, multiple scheduled power on/off 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
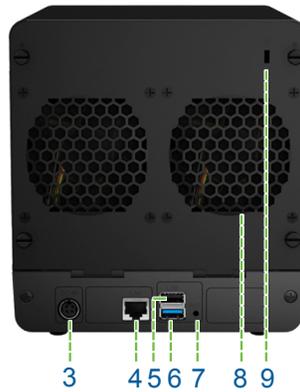
#	
1	Power Button
2	LED Indicators
3	Power Port
4	LAN Port
5	USB 2.0 Port
6	USB 3.0 Port
7	Reset Button
8	Fan
9	Kensington Security Slot

Technical Specifications

Hardware

CPU	MindSpeed Comcerto 2000 Dual Core 1.2GHz
Hardware Encryption Engine	Yes
Memory	DDR3 512 MB
Internal HDD/SSD	3.5" or 2.5" SATA(II) X 4 (hard drives not included)
Max Internal Capacity	20TB (4 X 5TB hard drive) (The actual capacity will differ according to volume types.)
Hot Swappable HDD	No
External Storage Interface	USB 3.0 port X 1, USB 2.0 port X 1
Size (HxWxD)	184mm X 168mm X 230mm
Weight	2.21 kg
LAN	Gigabit X 1
Wireless Support	Yes (wireless dongles not included)
Wake on LAN/WAN	Yes
Scheduled Power on/off	Yes
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

DSM Specifications

Networking Protocols	CIFS, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP)
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 #: 256, Max iSCSI Target #: 10, Max iSCSI LUN#: 10, Supported RAID Type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, Synology Hybrid RAID
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™, Firefox®, Internet Explorer® 8 onward, Safari® 5 onward, Safari (iOS 5 or later on iPad®), Chrome (Android 4.0 on tablets)
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

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, iOS Printing, Google Cloud Print™, Multi Functional Print Server (MFP functions are for Windows PC only)
iOS/Android Applications	DS audio, DS cam, DS cloud, DS download, DS file, DS finder, DS photo+, DS video
Windows Phone Applications	DS audio, DS file, DS finder, DS photo+, DS video

Add-on Packages

Surveillance Station	Default IP cam #: 1, MAX IP cam # (licenses required): 8 (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, L2TP
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 Concurrent File Transfers: 128; Retain Historical and Deleted File Versions
DLNA/UPnP® Media Server	DLNA certified, 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, Video Station, iTunes® Server, 3rd-Party Packages

Environment and Packaging

Environment	RoHS Compliant
Package Content	DS414j Main Unit, Welcome Note, Accessory Pack, AC Power Cord, AC Power Adapter, RJ-45 LAN Cable
Optional Accessories	Remote, Camera License Pack
Warranty	2 Years

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

1. The performance figures vary on different environments. Synology is dedicated to continual performance enhancement. Please find the latest figures on www.synology.com.

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