DiskStation DS414

Synology® DiskStation DS414 is a feature-rich 4-bay NAS specifically designed for growing businesses to effectively manage, protect and share data. Equipped with comprehensive office applications, DS414 raises working efficiency while securing data with full backup solutions.

Highlights

- Dual Core CPU with Floating-Point Unit
- Over 207.07MB/s Reading, 135.63MB/s Writing[1]
- Dual LAN with Failover and Link Aggregation Support
- 1GB RAM Boosting Multitasking Power
- Features SuperSpeed USB3.0
- Hot-swappable & Tool-Less Hard Drive Tray Design
- Running on Synology DiskStation Manager (DSM)

Optimal Price/Performance Ratio

Considering its generous hardware specifications, Synology DS414 is a huge step forward. Featuring built-in floating-point unit in CPU, 1GB RAM, dual LAN, SuperSpeed USB3.0 and the brand new tool-less HDD trays, DS414 stands out as one of the best values in 4-bay NAS devices available today. The built-in floating-point unit enhances the overall capability of the main CPU to enable higher working efficiency. With RAM twice the size of its predecessor, DS414 also exhibits a surprising boost in multi-tasking performance. Under link aggregation, DS414 delivers over 135.63MB/sec writing speed under RAID 5 configuration in a Windows® environment, and over 207.07MB/sec reading.[1]

Designed with attention to recovery mechanism, DS414 comes with dual LAN failover support to ensure continual network service in case of LAN failure, while hot-swappable design facilitates easy hard drive replacement. For friendly and effortless hard drive installation, DS414 contains the new tool-less hard drive trays, allowing users to fixate 3.5" hard drives without a screwdriver. External storage access is made fast and easy, with two SuperSpeed USB 3.0 interfaces in the back, alongside one USB 2.0 interface in the front panel for quick access.

Windows + Mac + Linux Cross Platform File Sharing

Synology DS414 offers comprehensive network protocol support, assuring seamless file sharing across Windows®, Mac®, and Linux® platforms.Windows® AD and LDAP integration allows Synology DS414 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.

For users who are always on the move, Synology provides a handy app, DS file, for popular mobile devices such as iPhone®, iPad®, Android™ devices and Windows Phone™. Anything stored on Synology DS414 can now be accessed remotely using DS file.

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 DS414 offers a centralized backup target to consolidate fragmented and unstructured data across a network. PC users can back up their data to Synology DS414 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 DS414 to another Synology NAS, to other rsync server, or to an external drive. Backing up to Amazon® S3 and Glacier cloud service is also supported. The add-on package, 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 DS414 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.

Rich Office Applications

Synology DS414 runs on the award-winning operating system, Synology DiskStation Manager (DSM), which offers comprehensive applications and features designed specifically for office and business workgroups.

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. The Mail Server package turns Synology DS414 into a dedicated mail service provider, while Mail Station, provides a webmail interface for users to access emails stored on Synology DS414.

VPN Server package offers an easy VPN solution that turns your Synology DS414 into a VPN server, providing a secure way of connecting to a private LAN at a remote location. RADIUS Server strengthens network security by overseeing wireless access authentication via RADIUS (Remote Authentication Dial-In User Service) networking protocol.
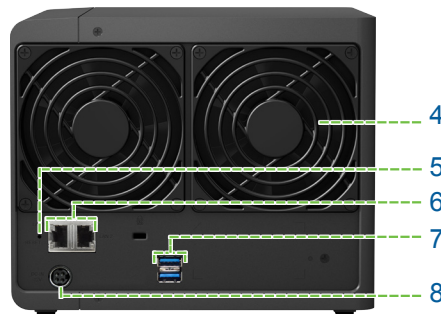
As to environment security, Synology Surveillance Station offers a centralized interface to manage IP cameras deployed in your office or home, allowing users traveling miles away to safeguard the environment by watching live views, recording events, and taking snapshots with a computer or iOS/Android device.

Energy Efficient with Cool and Quiet Design

All Synology NAS is designed with energy efficiency in mind. Not only does DS414 provide two 92 X 92 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	LED Indicators
2	USB 2.0 Port
3	Power Button
4	Fan
5	RESET Button
6	LAN Port
7	USB 3.0 Port
8	Power Port

Technical Specifications

Hardware

CPU Frequency	Dual Core 1.33GHz
Hardware Encryption Engine	Yes
Memory	DDR3 1GB
Internal HDD/SSD	3.5" or 2.5" SATA(II) X 4 (hard drives not included)
Max Internal Capacity	16TB (4 X 4TB hard drive) (The actual capacity will differ according to volume types.)
Hot Swappable HDD	Yes
External Storage Interface	USB 3.0 port X 2, USB 2.0 port X 1
Size (HxWxD)	165mm X 203mm X 233.2mm
Weight	2.02 kg
LAN	Gigabit X 2
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: 2048, Max Group: 256, Max Shared Folder: 256, Max Concurrent CIFS/AFP/FTP Connections: 256
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

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: 4, 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): 16 (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: 15, VPN Method: PPTP, OpenVPN™, L2TP
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: 4, Multiple File Versions Retained, Instant File Restoration
Cloud Station	Maximum Concurrent File Transfers: 256; 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 : 50
Other Packages	Photo Station, Audio Station, Video Station, iTunes® Server, 3rd-Party Packages

Environment and Packaging

Environment	RoHS Compliant
Package Content	DS414 Main Unit, Installation Disc, Welcome Note, Accessory Pack, AC Power Cord, AC Power Adapter, RJ-45 LAN Cable X 2
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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