



## DiskStation DS2413+

Synology® DiskStation DS2413+ is a high performance NAS server scalable up to 24 drives for enterprise users, specifically designed for businesses that requires an efficient way to centralize data protection, simplify data management, and rapidly expand storage capacity with minimal time spent on setup and management.

### Highlights

- **205.53 MB/sec Reading, 199.09 MB/sec Writing**
- **Scale up to 24 Drives with Synology DX1211**
- **CPU Passive Cooling Technology & System Fan Redundancy**
- **2 LAN with Failover and Link Aggregation Support**
- **Windows® ADS and ACL Support**
- **VMware®, Citrix®, Hyper-V® compliance**
- **Running on Synology DiskStation Manager (DSM)**

### Experience High Performance Data Throughput

With the Link Aggregation enabled, Synology DS2413+ delivers an average 205.53 MB/sec reading speed under RAID 5 configuration in a Windows environment, and 199.09 MB/sec writing<sup>1</sup>. Synology DS2413+ bring you the high performance that your data-intensive applications demand for a storage system, and offer the ability to scale the storage capacity.

### High Reliability for Critical Business Applications

Businesses need a strong foundation to face mission-critical tasks. Synology DS2413+ delivers high data availability to ensure access when it's needed. The 2 LAN with failover support and hot-swappable drives will ensure continual service uptime should the drives need replacement or the unexpected LAN failure.

CPU is the heart of any system, and DS2413+ incorporates a passive cooling structure to avoid the dependency of a dedicated processor cooling fan, and mitigate any critical point of failure. When system detects fan fails, the built-in redundancy mechanism will spin up the functional fan(s) to properly ventilate the system, and support continuous operations until the replacement fan arrives. Therefore, potential system damages are minimized and system availability is maximized.

### Robust & Affordable Scalability Up to 96TB

When the storage capacity of the Synology DS2413+ is nearing its limits, it can easily be expanded by the Synology DX1211. The Synology DS2413+ securely connects to the Synology DX1211 with specially-designed connection cable which carries SATA signals to ensure maximum throughput. The Synology DX1211 can directly expand the existing storage on the Synology DS2413+ to a maximum 96TB capacity<sup>2</sup>.

### iSCSI and Virtualization Ready

With the iSCSI support in DSM, the Synology DS2413+ provides a seamless storage solution for virtualization servers, such as VMware, Hyper-V, and Citrix. It is the ideal alternative to SAN solution for businesses. Affordable and cost-effective, iSCSI allows SMB users to consolidate storage into data center storage arrays while providing hosts with the illusion of locally-attached disks.



### Figure 1) Enterprise Interoperability

DS2413+ fits seamlessly into enterprise domains by utilizing existing user credentials.

## Fit to Business Environment

Windows ADS and LDAP integration allows the Synology DS2413+ to quickly and easily fit in an existing business network environment with no need to recreate users' accounts on the Synology DS2413+. The User Home feature minimizes the administrator's effort in creating a private shared folder for a large amount of users.

Windows ACL support on DS2413+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on DS2413+ through their familiar Windows user interface. The privileges set on Windows ACL will be applied to all access entries, including AFP, FTP, File Station, NFS and WebDAV. The secure privilege offers IT staff peace of mind, no worries about any loopholes.

## Full-featured Business Applications

Synology DiskStation DS2413+ runs on renowned multitasking operating system, the Synology DiskStation Manager (DSM). Offering a comprehensive list of business applications, the DS2413+ can be customized to run multiple applications of your choice to fulfill the requirement of your business environment. The DS2413+ replaces several pieces of traditional network hardware with rich features designed specifically for workgroups and offices such as antivirus, video surveillance, webmail, VPN, and LDAP directory services.

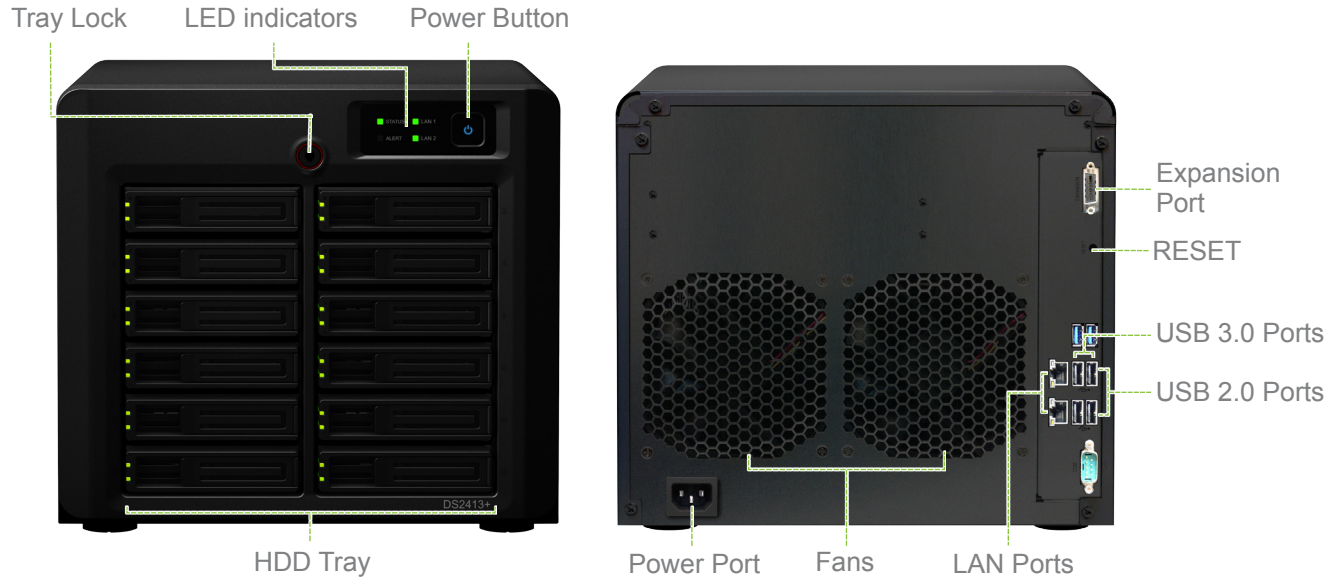
Applications are managed in the Package Center, an application portal that hosts applications as ready-to-use packages; to ensure high software integration as well as one-click-installation to eliminate guess work during installation. Additional approved 3rd party PHP web application such as content management, customer relationship management & e-Commerce system can be hosted on DS2413+ by using Web Station with support for PHP/MySQL® web content.

## Energy Efficient Design

Synology DS2413+ is designed and developed with energy efficiency in mind. Compared with the average storage server counterparts, DS2413+ consumes a relatively low amount of power. The support of Wake on LAN/WAN and scheduled power on and off can further reduce power consumption and operation cost. HDD hibernation can be configured to take effect automatically when the system has been inactive for a specified period of time. This not only saves energy but also extends the lifespan of the hard disks.

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	2.13GHz Duo Core
Floating Point	Yes
RAM Size	DDR3 2GB (expandable up to 4GB)
Internal HDD/SSD	3.5" or 2.5" SATA(III) X 12 (hard drives not included)
Max Internal Capacity	48TB (4X 12TB hard drives) (The actual capacity will differ according to volume types.)
Hot Swappable HDD	Yes
External HDD Interface	4X USB 2.0 ports, 2X USB 3.0 ports, 1X expansion port
Size (HxWxD)	270mm X 300mm X 340mm
Weight	9.93kg
LAN	2X Gigabit
Wake on LAN/WAN	Yes
Wireless Support	Yes (wireless dongles not included)
Noise Level <sup>3</sup>	21.5 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>4</sup>	111.1 W (Access), 41.8 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), LUN Backup - Max Concurrent Task Number: 8 Shared Folder Sync - Max Task Number : 8, 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): 20 (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 : 20, 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 Notificaiton
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 : 8, Multiple File Versions Retained, Instant File Restoration
Cloud Station	Maximum User Accounts : 32, 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 : 80
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: 108TB, Max Internal Volume #: 512, Max iSCSI Target #: 32, Max iSCSI LUN#: 256, Supported RAID Type : Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, RAID 6, RAID 10, Synology Expansion Unit Support : DX1211
File Sharing Capability	Max User Account: 2048, Max Group: 256, Max Shared Folder: 256, Max Concurrent CIFS/AFP/FTP Connections : 512
Privilege	Windows Access Control List (ACL)
Directory Service	Windows ADS Domain Integration, LDAP Integration
Virtualization	Vmware vSphere 4, Microsoft® Hyper-V, Citrix Ready
Security	FTP over SSL/TLS, IP Auto-Block, Firewall, Encrypted Network Backup over Rsync, HTTPS Connection
Utilities	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, Mag 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	DS2413+ Main Unit, Installation Disc, Welcome Note, Assembling Kit, AC Power Cord, RJ-45 LAN Cable X2
Optional Accessories	Remote, Camera License Pack, Expansion Unit (DX1211), 2GB RAM Module
Warranty	3 years

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

1. With Link Aggregation enabled. The performance figures could vary on different environments.
2. DS2413+ supports up to one Synology DX1211, purchased separately.
3. 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>
4. Measured with 12 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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