



## DiskStation DS713+

Keeping up with the evolving needs of your business can be challenging. Get a head start with Synology® DiskStation DS713+ and its high-performance, straightforward approach to data-management and protection. Whenever you're ready, upgrade capacity with ease by adding an expansion unit. The Synology DiskStation DS713+ is backed with Synology's 3-year limited warranty.

### Highlights

- **202.3 MB/sec Reading, 135.84 MB/sec Writing Speed**
- **Dual Core CPU & Super-Speed USB 3.0 Ports**
- **Dual-LAN Failover and Link Aggregation Support**
- **Hassle-free Scalability Up to 7 Drives With Synology DX513**
- **Extensive Surveillance With 20 HD IP Camera Capacity**
- **VMware® with VAAI support, Citrix®, Microsoft® Hyper-V® compliant**
- **Easy-to-Use Synology DiskStation Manager (DSM)**

### High Performance Dual Core CPU

With dual core CPU and Link Aggregation, Synology DS713+ keeps up with the speed of your business with 202.3 MB/sec reading and 135.84 MB/sec writing speed under RAID1 configuration in a Windows environment.<sup>1</sup> For back up onto external hard drives, Super-Speed USB 3.0 ports provide ten times the transfer speed of its predecessor. Dual-LAN failover support and hot-swappable drives ensure continual service uptime during drive replacement or unexpected LAN failure.

### Straightforward RAID-Management

Synology Hybrid RAID (SHR) automatically optimizes RAID capacity and protection based on hard drives installed, eliminating the need for identical sizes while retaining custom setup options for advanced users. Multiple Volumes on RAID allows for more than one volume to be created on a single RAID structure, giving you flexibility across all available drives. Volumes can be expanded as necessary by allocation on the easy-to-use UI, and Synology's DiskStation Manager (DSM) does the rest without any service interruption.

### Flexible Scalability Up To 28 TB

When the storage capacity of DS713+ nears its limit, upgrading is easy with Synology DX513 expansion unit.<sup>2</sup> Connected via eSATA with specially designed locking devices, DX513 expands storage capacity up to a maximum of 28 TB with minimal time-investment in setup and configuration.

### Virtualization Ready

Fully compliant with VMware, Citrix, and Hyper-V, with iSCSI and VAAI support, DS713+ is the most affordable virtualization storage solution of its kind, allowing SMB users to consolidate data storage while giving the illusion of locally attached disks.



**Figure 1) Flexible Scalability**

DS713+ can expand its capacity on the fly and enlarge volumes across its expansion unit for storage or backup.

## Cross-Platform Interoperability

DS713+ runs Synology's award-winning DiskStation Manager (DSM) – an easy-to-operate OS which can be customized to include applications of your choice to fulfill your requirements.

Within your business environment, extensive network protocol support provides seamless cross-platform file sharing between Windows, Mac OS and Linux. Windows® AD and LDAP integration allows DS713+ to fit into existing business network infrastructure without having to recreate user accounts, while Windows ACL allows IT personnel to set up privileges to files and folders through familiar Windows UI, delivering peace of mind with simplicity.

## Easy Backup Solutions

To protect your critical business data, DS713+ can become a centralized backup target for consolidating fragmented and unstructured information across your network through a range of options. PC users can backup to DS713+ with Synology's Data Replicator, while DS713+ also fully supports Mac OS X's native Apple Time Machine. Synology's own backup wizard can back up information to another Synology NAS or any rsync server, with the option of using an encrypted connection, or to an external hard drive via USB 3.0 or eSATA. The wizard can also back up your information to the cloud, including Amazon® S3 and STRATO HiDrive.

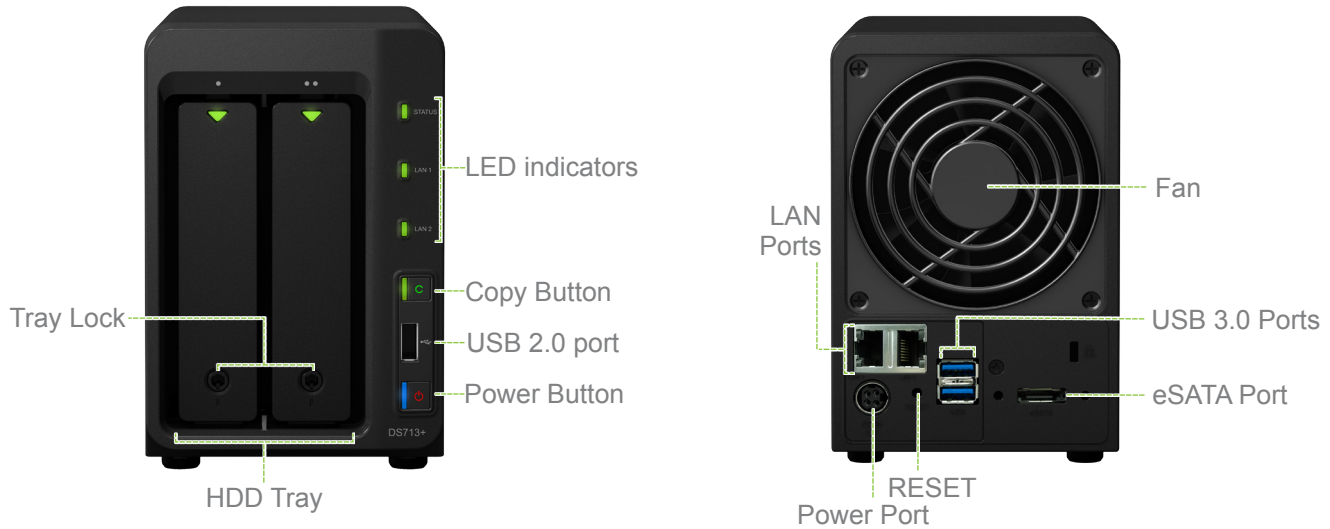
## Multi-Purpose Packages

Additional functions in the form of one-click-installation packages allow your DS713+ to take the place of other hardware. VPN Server turns your DiskStation into a Virtual Private Network server, providing secure access to your private LAN from remote locations. Surveillance Station creates a centralized interface for the management of IP cameras. Additional approved 3rd party PHP web application featuring tools such as content management, customer relationship management & e-commerce systems can be hosted on DS713+ by using Web Station with support for PHP/MySQL® web content.

## Energy Efficient Design

Synology DiskStations are designed and developed with energy efficiency in mind. Compared with its average PC counterpart, Synology DS713+ consumes relatively little power at 30.7 watts while operating. Wake on LAN/WAN and scheduled power on/off features can further reduce power consumption and operation costs. HDD hibernation can be configured to take effect automatically when the system has been inactive for a specified period of time to save energy and extend hard disk life. All Synology products are produced with RoHS compliant parts and packed with recyclable packing materials. Synology acknowledges the responsibility of a global citizen and works continually to reduce the environmental impact of every product.

# Connections & Buttons



# Technical Specifications

## Hardware

CPU Frequency	Dual Core 2.13 GHz
Floating Point	Yes
RAM Size	DDR3 1 GB
Internal HDD/SSD	3.5" or 2.5" SATA(III) X 2 (hard drives not included)
Max Internal Capacity	8 TB (4 TB HDD X 2) (actual capacity will differ according to volume types)
Hot Swappable HDD	Yes
External HDD Interface	USB 3.0 ports X 2, USB 2.0 ports X 1, eSATA X 1
Size (HxWxD)	157 x 103.5 x 232 mm
Weight	1.69 kg
LAN	Gigabit X 2
Wake on LAN/WAN	Yes
Wireless Support	Yes (wireless dongles not included)
Noise Level <sup>3</sup>	19.2 dB(A)
AC Input Power Voltage	100V to 240V
Power Frequency	50 Hz to 60 Hz, 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>	30.72W (Access), 17.88W (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: 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, DS audio, DS photo+

## 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 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: 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 compliant, PS3®/Xbox 360® supported
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: 108 TB, Max Internal Volume #: 512, Max iSCSI Target #: 32, Max iSCSI LUN#: 256, Supported RAID Type: Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1; with DX513: RAID 5, RAID 5+Spare, RAID 6; with DX513 or DX213 RAID 10, Synology Expansion Unit Support : DX513, DX213
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 AD 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	DS713+ Main Unit, Installation Disc, Welcome Note, Assembling Kit, AC Power Cord, RJ-45 LAN Cable X2
Optional Accessories	Remote, Camera License Pack, Expansion Unit (DX513, DX213)
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. Performance figures could vary on different environments.
2. DS713+ supports up to one Synology DX513/DX213, 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 WD30EZR 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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DS713+-2012-ENU-REV002

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