

# Synology Product Guide

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## Synology at a Glance

Founded in 2000, Synology is a young and energetic company dedicated to developing high-performance, reliable, versatile, and environmentally-friendly Network Attached Storage (NAS) products. Our goal is to deliver user-friendly solutions and solid customer service to satisfy the needs of business, home offices, individual users and families.

## Excellent Research & Development Team

Synology's ability to constantly expand the horizon and develop depth stem from the excellent research & development team who strives for the consolidation of past experience and an unfailing supply of creativity. Long-term tracking of technology trend and tendency along with customer feedback collection are what make the R&D team successful in continuously developing astonishing products and receiving compliments from users. All elements combined yield the motivation behind Synology's ever-improving quality.

## Complete Customer Service

Synology provides full-featured customer service, in which the customer-oriented technical support team offers professional solutions to product, purchase, update, and post-sale inquiries. Solving the problems in a timely fashion and listening to customer's voice become the primarily goals of our support team. Synology wants every customer to get what they deserve – a five-star service.

## Awards

Synology's products, the DiskStation series, have received recognition in the worldwide IT industry with awards and praises. These are some of the most acknowledged awards among all.



In January 2012, DiskStation DS2411+ received "Editor's Choice" award and scored 5 out of 5 stars from Macworld, U.K.



In December 2011, DiskStation DS3611xs received the "Finalist" award from Comunicaciones Hoy magazine, Spain.



In December 2011, DiskStation DS411+II received the "2011 SME Best Choice" award from Winmag Pro, Netherlands.



In January 2012, DiskStation DS212 won "Storage Product of the Year (2011)" award from PC User, Australia.

Extreme-performance, High Scalability and Full-featured NAS Servers for Large Scale Business

# xs Series



High-performance and Full-featured NAS Servers for Small and Medium Business

# + Series



## DS3612xs

- Dual Core 3.1 GHz CPU, with floating point
- 2 GB ECC RAM (Up to 6GB)
- 4X USB 2.0, 2X InfiniBand ports<sup>(2)</sup>
- 4X Gigabit LAN ports
- Supports add-on interface card (additional 2X 10GbE LAN ports)
- Supports 12X 3.5" HDD or 2.5" HDD<sup>(3)</sup>
- Power consumption: 132W(Access), 57.2W(HDD Hibernation)

## RS3412xs/RS3412RPxs<sup>(1)</sup>

- Dual Core 3.1 GHz CPU, with floating point
- 2 GB ECC RAM (Up to 6GB)
- 4X USB 2.0, 2X InfiniBand ports<sup>(2)</sup>
- 4X Gigabit LAN ports
- Supports add-on interface card (additional 2X 10GbE LAN ports)
- Supports 10X 3.5" HDD or 2.5" HDD<sup>(3)</sup>
- Power consumption: 115.5W(Access), 57.2W(HDD Hibernation)

## RS2212+/RS2212RP+<sup>(1)</sup>

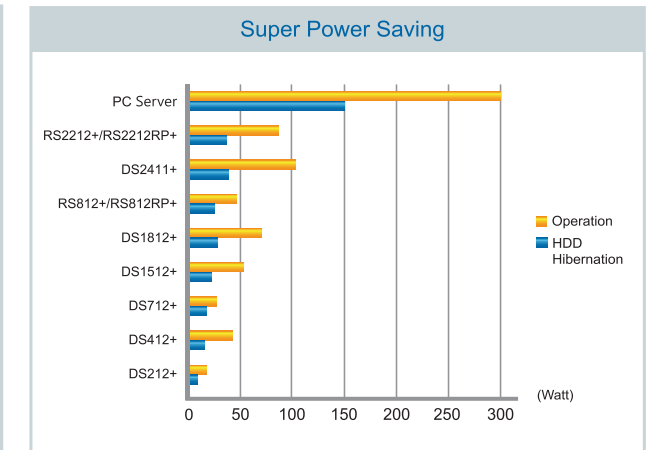
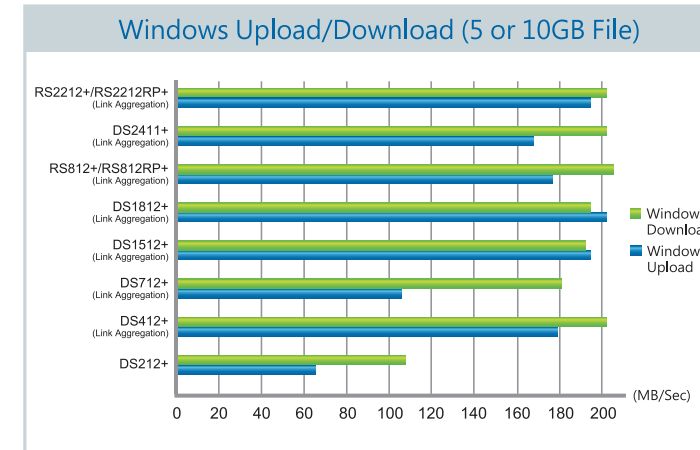
- Dual Core, 2.13 GHz CPU, with floating point
- 1 GB DDR3 RAM (Up to 3GB)
- 4X USB 2.0, 1X InfiniBand port<sup>(2)</sup>
- Supports 10X 3.5" HDD or 2.5" HDD<sup>(3)</sup>
- Power consumption: 88W(Access), 36W(HDD Hibernation)

## DS2411+

- Dual Core 1.8 GHz CPU, with floating point
- 1GB RAM (Up to 3GB)
- 4X USB 2.0, 1X InfiniBand port<sup>(2)</sup>
- Supports 12X 3.5" HDD or 2.5" HDD<sup>(3)</sup>
- Power consumption: 104.5W(Access), 38.5W(HDD Hibernation)

(1) RS3412RPxs has redundant power supply. (2) InfiniBand carries 12Gb/s SATA signal. (3) HDD not included.

(1) RS2212RP+ has redundant power supply. (2) InfiniBand carries 12Gb/s SATA signal. (3) HDD not included.



Note: The performance figures are achieved in Synology lab by using very powerful client computers with extremely optimized network settings, and could vary on different environments. A regular office desktop/notebook may not be able to achieve this high performance figures. More information on [www.synology.com](http://www.synology.com).

Note: The power consumption value is for reference only and will vary with hard drive models and capacity.



### RS812+/RS812RP+<sup>(1)</sup>

- Dual Core, 2.13 GHz CPU, with floating point
- 1 GB DDR3 RAM (Up to 3GB)
- 2X USB 2.0, 1X eSATA port
- Supports 4X 3.5" HDD or 2.5" HDD<sup>(2)</sup>
- Power consumption: 46.2W(Access), 25.3W(HDD Hibernation)

### DS1812+

- Dual Core 2.13 GHz CPU, with floating point
- 1GB DDR3 RAM (Up to 3GB)
- 2X USB 3.0, 4X USB 2.0, 2X eSATA port
- Supports 8X 3.5" HDD or 2.5" HDD<sup>(2)</sup>
- Power consumption: 71.5W(Access), 28.6W(HDD Hibernation)

### DS1512+

- Dual Core 2.13 GHz CPU, with floating point
- 1GB DDR3 RAM (Up to 3GB)
- 2X USB 3.0, 4XUSB 2.0, 2X eSATA port
- Supports 5X 3.5" HDD or 2.5" HDD<sup>(2)</sup>
- Power consumption: 50.6W(Access), 22W(HDD Hibernation)

### DS712+

- 1.8 GHz CPU, with floating point
- 1GB DDR3 RAM
- 3X USB 2.0, 1X eSATA port
- Supports 2X 3.5" HDD or 2.5" HDD<sup>(2)</sup>
- Power consumption: 27.5W(Access), 17.6W(HDD Hibernation)

### DS412+

- Dual Core 2.13 GHz CPU, with floating point
- 1GB DDR3 RAM
- 2X USB 3.0, 1XUSB 2.0, 1X eSATA port
- Supports 4X 3.5" HDD or 2.5" HDD<sup>(2)</sup>
- Power consumption: 44W(Access), 15W(HDD Hibernation)

### DS212+

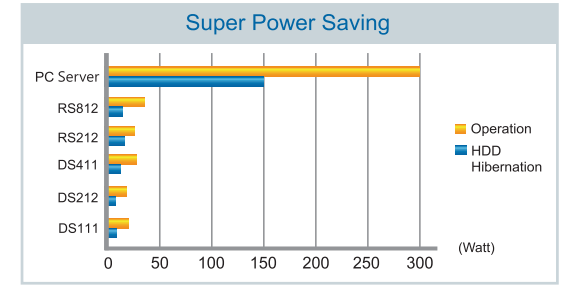
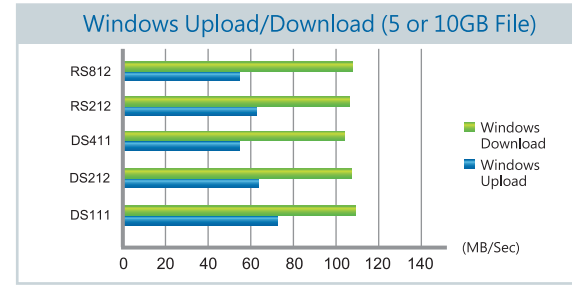
- 2.0 GHz CPU
- 512MB DDR3 RAM
- 2X USB 3.0, 1X USB 2.0, 1X eSATA port, 1X SD card
- Supports 2X 3.5" HDD or 2.5" HDD<sup>(2)</sup>
- Power consumption: 18.7W(Access), 7.9W(HDD Hibernation)

(1) RS812RP+ has redundant power supply. (2) HDD not included. (3) 2.5" Disk Holder required.



All-in-one NAS Servers with Optimal Price/Performance Ratio for Home to Business Workgroup

# Value Series



Note: The performance figures are achieved in Synology lab by using very powerful client computers with extremely optimized network settings, and could vary on different environments. A regular office desktop/notebook may not be able to achieve this high performance figures. More information on [www.synology.com](http://www.synology.com).

Note: The power consumption value is for reference only and will vary with hard drive models and capacity.



## RS812

- 1.6 GHz CPU
- 512MB DDR3 RAM
- 2X USB 2.0, 1X eSATA port
- Supports 4X 3.5" HDD or 2.5" HDD<sup>(1)</sup>
- Power consumption: 37W(Access), 14.3W(HDD Hibernation)

## RS212

- 1.6 GHz CPU
- 256MB DDR3 RAM
- 2X USB 2.0, 1X eSATA port
- Supports 2X 3.5" HDD or 2.5" HDD<sup>(1)</sup>
- Power consumption: 25.3W(Access), 16.5W(HDD Hibernation)

## DS411

- 1.6 GHz CPU
- 512MB DDR3 RAM
- 2X USB 2.0, 1X eSATA port
- Supports 4X 3.5" HDD or 2.5" HDD<sup>(1)</sup>
- Power consumption: 29.7W(Access), 11W(HDD Hibernation)

## DS212

- 1.6 GHz CPU
- 256MB DDR3 RAM
- 2X USB 3.0, 1X USB 2.0, 1X SD card
- Supports 2X 3.5" HDD or 2.5" HDD<sup>(1)</sup>
- Power consumption: 18.2W(Access), 6.8W(HDD Hibernation)

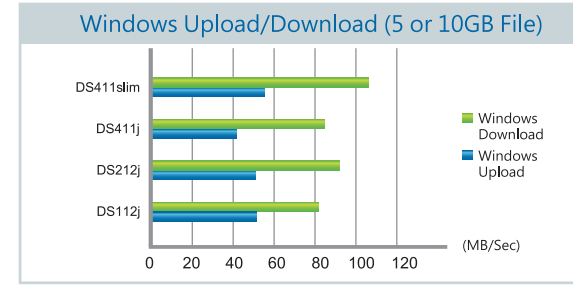
## DS111

- 1.6 GHz CPU
- 256MB DDR3 RAM
- 3X USB 2.0, 1X eSATA port
- Supports 1X 3.5" HDD or 2.5" HDD<sup>(1)(2)</sup>
- Power consumption: 18.7W(Access), 7.7W(HDD Hibernation)

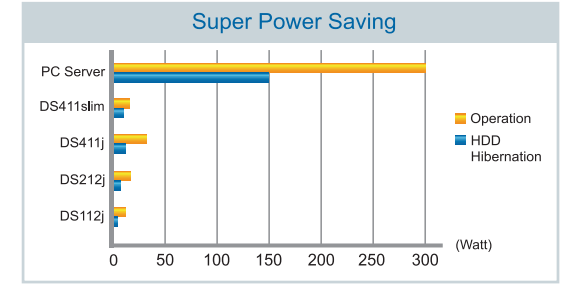
(1) HDD not included. (2) 2.5" Disk Holder required.

Easy to Use and Budget-friendly NAS Servers  
for Home to Small Office

# j Series



Note: The performance figures are achieved in Synology lab by using very powerful client computers with extremely optimized network settings, and could vary on different environments. A regular office desktop/notebook may not be able to achieve this high performance figures. More information on [www.synology.com](http://www.synology.com).



Note: The power consumption value is for reference only and will vary with hard drive models and capacity.

## DS411 slim

- 1.6 GHz CPU
- 256MB DDR3 RAM
- 2X USB 2.0, 1XeSATA port
- Supports 4X 2.5" HDD<sup>(1)</sup>
- Power consumption: 16.8W(Access), 9.6W(HDD Hibernation)

## DS411j

- 1.2 GHz CPU
- 128MB RAM
- 2X USB 2.0 ports
- Supports 4X 3.5" HDD or 2.5" HDD<sup>(1)</sup>
- Power consumption: 30.8W(Access), 11W(HDD Hibernation)

## DS212j

- 1.2 GHz CPU
- 256MB RAM
- 2X USB 2.0 ports
- Supports 2X 3.5" HDD or 2.5" HDD<sup>(1)(2)</sup>
- Power consumption: 17.6W(Access), 5.5W(HDD Hibernation)

## DS112j

- 1.0 GHz CPU
- 128MB RAM
- 2X USB 2.0 ports
- Supports 1X 3.5" HDD or 2.5" HDD<sup>(1)(2)</sup>
- Power consumption: 12.1W(Access), 4.4W(HDD Hibernation)

## USB Station 2





- Plug-and-play USB drive sharing
- Easy file management
- DLNA certified media server
- 24/7 PC-less download server
- Print server
- Power consumption: 5W(Access)

(1)HDD not included. (2) 2.5" Disk Holder required.

# Scalability & Backup – RX1211/RX1211RP/DX1211/DX510/RX410

Choose the right expansion unit to your NAS server for volume expansion on-the-fly and secured data backup

- Plug-n-use
- Hot-swappable HDD design
- HDD hibernation
- Managed with Synology DiskStation Manager operating system

NAS Server	No. of Applicable Expansion Unit(s)	Max. No. of HDDs
DS3612xs	 DX1211	X 2 units 36 pcs
DS2411+	X 1 unit	24 pcs
RS3412xs/RS3412RPxs	 RX1211/RX1211RP	X 2 units 34 pcs
RS2212+/RS2212RP+		X 1 unit 22 pcs
DS1812+	 DX510	X 2 units 18 pcs
DS1512+		X 2 units 15 pcs
DS712+		X 1 unit 7 pcs
RS812+/RS812RP+	 RX410	X 1 unit 8 pcs
RS812		

# Surveillance – VisualStation VS80

For local display of IP Cameras

- No PC required
- 5.2W during operation
- Up to 9 channels live-viewing
- USB mouse for snapshot & PTZ
- Timeline navigation bar for recorded events
- Multiple compression formats: MJPEG, MPEG-4, H.264



## Accessories

### 2.5" Disk Holder

For installing 2.5" HDD on Synology DiskStation

- Type C : DS111, DS212j, DS112j



### Synology RAM Module

For expanding the memory on Synology DiskStation & RackStation

- 1GB/2GB RAM  
Applied models : DS2411+
- 2GB ECC RAM  
Applied models : DS3612xs, RS3412xs/RS3412RPxs
- 2GB DDR3 RAM  
Applied models : DS1812+, DS1512+, RS2212+/RS2212RP+, RS812+/RS812RP+



### Rail Kit

For installing 1U or 2U Synology RackStation in a rack

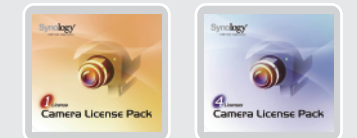
- Synology Rail Kit Fixed
- Synology Rail Kit Sliding



### Camera License Pack

For adding additional cameras on Synology Surveillance Station

- 1 cameras license
- 4 cameras licenses



# Top User Experience

An intuitive Operating System ready at your call

## Intuitive Web – Based Platform

DSM is innovative in many aspects. Server management and multitasking through a web browser is just the basic. There's direct login page for quick access to popular apps like Audio Station, File Station, and Surveillance Station. DSM brings in HTML5 & CSS3 technologies to make it not just PC-friendly, but also smartphone/tablet-friendly. The operating system is engineered for minimum learning curve.

## Total Customization

Enjoy a complete customization on desktop, which can be personalized with apps pinned in the taskbar or laid upon the desktop surface. You can also arrange apps or shortcuts into the same group via drag-n-drop and name it at your preferences. Lastly, pick your background wallpaper from Synology's list of choice or your own collection.

## Multitasking & Enhanced Manageability

DSM is designed as an expert on multitasking. DSM allows you to run multiple applications and switch between them without reloading the web pages. Programs run in parallel can be viewed in various ways. You can see the app icons pinned directly at the taskbar or mouse over one of the icons and instantly see a thumbnail preview of the windows. Finally, with just one click, all apps will be in pilot view for you to track.



# Synology ezCloud Services

ezCloud offers simple connection and internet presence control

## Take Advantages of QuickConnect Service

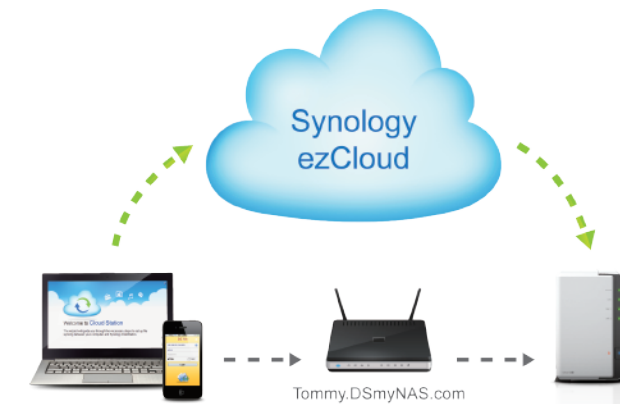
QuickConnect service helps you access files easier than ever. Apply for an ezCloud ID and you'll be able retrieve files remotely without any other network configuration. Just connect your DiskStation to the Internet, and you are all set to access your files remotely. QuickConnect Service can be paired to use with Cloud Station and DS file.

## Decide Your Own Personal DDNS

Gain a solid control over internet presence with Synology's DDNS service. ezCloud lets you directly register a personalized domain name from Synology. DDNS support is now one-stop, reliable, and free. No more hassles from seeking third-party service.

## DDNS Status – Always Be the First to Know

Synology DDNS comes with heartbeat service. If a problem in network connection is detected, notification will be sent to you via email, SMS, online instant messaging, or iOS devices to alert you on the status. You can also monitor via the web. Log into MyDS Center webpage to view all registered DiskStation and DDNS service. It's just that easy.





# Modularization

**DSM 4.0 is what you make of it** – All Synology applications are now available in the Package Center and made into packages! You can also pick from a collections of 3rd-party apps for backup or blogging. Synology manages the apps online and push out timely updates. For leisure or for businesses, just click to install or update apps right away; the entire process is better streamlined via the web.

## Office Productivity – Web Server, Mail Server, and OpenERP Packages

The Synology DiskStation offers cost-effective and easy-to-use business solutions. Web Station lets you setup your own website with PHP, MySQL and open-source web application support. In addition, each Synology DiskStation is capable of hosting up to 30 virtual websites.

You can set up e-mail server for your business and access e-mails on various clients, such as Outlook, or on mobile devices. Also, Mail Station collects emails from various services like Gmail or Hotmail, and lets you direct all incomings through a centralized webmail interface and switch between different mailbox accounts.

Synology allows business to implement and optimize the ERP system at an affordable cost. Your Synology NAS is ready to work as an ERP server which integrates a full range of business applications such as sales, CRM, project management, and accounting, into a coherent information system<sup>1</sup>.



<sup>1</sup> OpenERP package is supported on selected models only. For more information please visit [www.synology.com](http://www.synology.com).

## Home Environment – Audio Station, Photo Station, and Streaming

Audio Station is the built-in player for streaming music and Internet radio. Listen to playlists or choose songs randomly. You can also customize ID3 tag or adjust music tone with equalizer. Play out music through PC speakers, USB speakers, or even Apple TV. Audio Station supports media renderer and AirPlay streaming.

Photo Station allows you to share photos and videos via albums or blogging. Albums provide password protection, and geo-tagging. You can synchronize photos onto Facebook and Picasa directly, or share it on Twitter. Photo Station offers versatile theme customization for you to decorate photo albums and blog, and CSS option to design your own look.



In addition, digital content stored on DiskStation can be streamed to other media devices for even better visual and audio experience. Turn your DiskStation into a media server and stream multimedia content to DLNA/UPnP TV or stereo systems. You can also use AirPlay streaming to stream out songs, photos, and even video content.

# File & Resource

Versatile channels to access and share things effortlessly



## Cloud Station – Your Personal Cloud

Cloud Station centralizes all important files in one single folder, and syncs it to any PC that you are using. Your cloud is made truly available even without network service. View and edit files offline, the changes will be instantly synced onto Cloud Station after the connection is resumed. One single DiskStation can become various users' private clouds<sup>1</sup>. Cloud Station can also be supported by ezCloud.

## Diversify Your Platform of File Access & Sharing

Various file accessing options are available. With File Station, you can easily navigate between folders and upload files from local PC to DiskStation and set up favorite folders. Directly share data via a private link securely. DS file, as a mobile app, lets you access files on-the-go. DSM also comes with complete network protocol support for sharing files across Windows, Mac and Linux clients. FTP or WebDAV is also supported for the convenience.

## Virtual Drive & Remote Folder

Mount as many as 16 ISO images on a single Synology DiskStation. Every workstation within the network will be able to access different software more efficiently and timely. Also, you can mount shared folders from another DiskStation and create shortcuts to access data located in a remote folder as if it were a local folder. A single portal to multiple DiskStations is made possible and convenient.



<sup>1</sup> For detailed information please visit [www.synology.com](http://www.synology.com).

## Print Server

Synology offers a complete print server solution whether you are indoors or on-the-go. Every Synology DiskStation is a stand-alone multifunction and AirPrint printer server. So share these features with everyone within the network. Even better, it also supports Google Cloud Print, so you can print anything from your Google account remotely.



## Transfer File with Security

DiskStation offers transmission security with encrypted transfer options such as HTTPS and SFTP. Companies can exchange data efficiently and securely by constructing a complete VPN network, free and easy with DiskStation. DiskStation can be used as a VPN client, so computers and IT devices in branch offices can connect to the VPN network.



# Storage

Manage your storage space intelligently without limits.

## Synology Hybrid RAID

Developed by Synology's own Research & Development team, the Synology Hybrid RAID is a custom volume type that intelligently optimizes your volume space when combining disks in varying sizes into an array. It also provides 1 to 2 hard disks fault tolerance of data protection.

## 100TB on a Single Volume

In adding to increasing total storage space with expansion units, you can also expand volume size to 30, 65 or even 100TB. Your storage management now becomes less complicated with a single volume while having enough space to store data.

## Facilitate Data Transfer with iSCSI Support

With Synology's iSCSI support, you can easily manage and map multiple LUNs to iSCSI targets within the network to facilitate data transfer. Thin Provision enables dynamic storage space allocation, while MC/S and MPIO support provides your server with connection failover and load balance improvement. Manage all your iSCSI devices with the iSNS server to off-load administrative burden.



# Backup

Preserve your important data in many different ways

## Time Backup

The Synology Time Backup is a server backup solution with snapshot and versioning support. You can also take a snapshot of your current volume status and continue to work as the process runs in the background. Different backup versions are displayed on a timeline fashion for easy restoration and tracking. Smart Recycle mechanism helps to optimize backup versions within reasonable storage space.

## Desktop Backup

On Windows platform, you can use Synology Data Replicator 3 to backup desktop data and Outlook® e-mail to your DiskStation. For Mac users, DiskStation is the first to support Mac OS X Lion. So see Time Machine and DiskStation work smoothly as a pair.

## Server Backup

With Synology DiskStation, you can choose to backup data within, to an external hard drive locally, or another DiskStation in the network. Configuration backup lets you back up settings in the Control Panel, and restore settings selectively. Using this method, the settings on one server can also be exported and applied onto another server for quick configuration setup. For disaster recovery, the Shared Folder Sync synchronizes a specific folder from one DiskStation to another via a server-to-client mechanism. So whenever there is a system crash, you can have it back and running in no time.



# Security

Comprehensive security measures to protect your DiskStation

## User & Group Privileges

You can easily configure privileges on the shared folder, sub-folder and file level, or even to particular applications. For example, you can setup the privilege that certain users won't be able to have access to the FTP server. You can also create multiple administrators to establish a more sophisticated access control environment.

## Embedded Windows ACL

The DSM offers seamless and complete Windows ACL support with native Windows experience. IT staff are offered with full Windows ACL settings as to directly manage it within DSM. At the file-based access control, you can setup privileges directly on a user or a group. You will be able to apply the settings universally to applications and services such as File Station, AFP, NFS, FTP and WebDAV.

## Server Security

The Synology DiskStation offers a variety of security features to help you safeguard important data in different aspects, such as HTTPS and FTPS at the file transfer level. Also, DSM 4.0 itself comes with antivirus for an extra layer of protection. For fighting against malicious attempt, DiskStation is also equipped with Firewall and IP auto block to prevent suspicious log-ins.

### Windows ACL



# Server Management

Complete and cost-effective solutions for efficient management

## Full Syslog Support

The Synology DiskStation can be a centralized Syslog server to collect logs and monitor all server activities for troubleshooting. It is also a fully-compatible Syslog client that submits record to an existing Syslog server. You can search logs with various options and receive notification when there's an alert. Storage usage of logs can be managed accordingly.

## Monitor Server Status

DSM makes it quick and easy for you to keep a careful eye on server status. With the widgets displayed on the desktop, you can monitor all kinds of things – system health, logs, backup status, storage and resource usage, and active connections. Take proper actions as needed.

## Stay Connected with Notifications

Get instant notifications on the status of your DiskStation when critical events occur. On top of SMS and email notifications, Synology offers free push services on Skype, Windows Live Messenger, and DS finder for iOS devices. You can set and decide which categorized events to trigger notifications and respond.

### Resource Monitor





# Windows® ADS & LDAP

Simplifying and centralizing account management

## Seamless Integration with Windows ADS

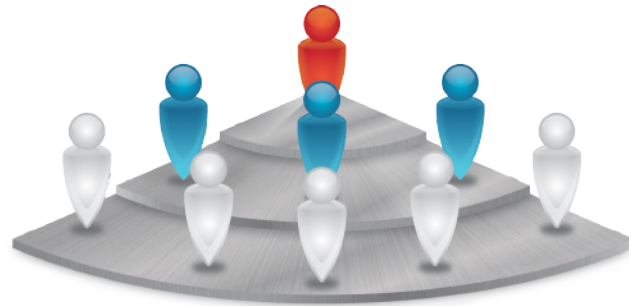
Windows ADS support allows you to manage numerous user accounts. Windows domain users can use their existing account and password to access other DiskStations without setting up another group of accounts. You can also configure domain and sub-folder privileges for better organization and efficiency.

## Effortlessly Merge into LDAP Environment

When LDAP is used as a shared protocol, DiskStation is capable of merging into any existing LDAP directory service environment, such as Apple Open Directory. You can use the same LDAP account to access resources on multiple DiskStations. This can greatly reduce time spent on creating and managing multiple sets of accounts.

## Create LDAP Directory Server

DiskStation can be turned into a LDAP-based directory server to centralize all your accounts into one place for security control and authentication. Mac and Linux clients can easily join the environment; and you can also access these clients with one single LDAP account.



# Virtualization

Consolidating your storage space and IT infrastructure

## Consolidate IT Infrastructure

Synology DiskStation can act as a storage server in a virtualized environment. By using iSCSI, storage space can be consolidated by centralizing all data in one location, allowing host servers to perform solely the computing part. It's a cost-effective solution to optimize your IT infrastructure.

## LUN Backup Maintains Data Accessibility & Integrity

Native LUN backup service is available on DiskStation Manager at no additional charge. Serverless LUN backup allows data to be backed up from the storage level without affecting server performance. Business can enjoy efficient backup with "Point-in-time copy" and incremental backup to save space. The backup files can be restored to an additional LUN for future retrieval and prevention of data damage.

## Compatible with Major Virtualization Solution Vendor

Synology is dedicated to simplifying virtualized storage management while increasing business agility within large data centers. Even budget-minded SMB are able to introduce virtualization into daily operation. Many Synology products acquired certification on VMware® vSphere™, Microsoft® Hyper-V™ and Citrix® XenServer™.

	xs Series	+ Series	Value Series
VMware vSphere 5	✓		
vmware READY	✓	✓	✓
citrix READY	✓	✓	✓
Microsoft Windows Server 2008 R2	✓	✓	✓

Note : Certified virtualization support is available on dual LAN models only.

# Surveillance

Reassuring your security with versatile features and mobile support

## A Full – featured NVR System

Supporting over 1,000 IP cameras, Surveillance Station is intuitive and responsive. Everything is preloaded so switch between tabs is quicker. Operations like viewing multiple live view channels, recorded events and managing batch cameras become much more responsive. Simply put, it's a full-featured NVR system.

## Versatile Surveillance Options

DSM 4.0 offers an array of options to better your camera deployment. Live View Analytics lets you stay alert on multiple live-view channels with attention focused. Digitally signed recordings make them admissible evidence in a court of law. Or, cover a 360° panorama from just one fisheye camera to see multiple viewing regions.

## Monitor IP Cameras On-the-Go

Available on iPhone, iPad, and Android phones, DS cam allows you to live view IP cameras managed by DiskStation. Recorded events can also be viewed with PTZ and various timeline controls. In addition to SMS and e-mail notification, you can also set up push services with DS cam on your mobile device, Windows Live Messenger, or Skype to better stay notified.



# Mobile

On both iOS & Android, Synology lets you carry data on the go

## DSM mobile – Management at Fingertips

DSM mobile is a web-app for instant management on iOS & Android devices. It lets you manage user privilege, enable DSM applications, and launch the mobile apps. Furthermore, you can also monitor network flow, check on an incident through log record, and acquire iSCSI status. Whenever you receive a call for urgent server management, tackle the issue with the same phone in your hands.

## Synology Mobile Apps – Access Data Remotely

Access data on-the-go via five mobile apps. DS audio streams music stored on DiskStation and Internet radio mobile devices; DS cam provides access to your Surveillance Station remotely for event live view and notifications; DS photo+ uploads photos and videos to your albums. There's also DS file for file retrieving and DS finder for server status monitoring. All five mobile apps are available on iOS device, Android phones, Kindle Fire. DS file and DS photo+ are also introduced to Android tablets users.

## iCloud Support

You can use DS file on any iOS device to sync files with iCloud. It enables you to break limitations and sync more types of files to iCloud. What is great is that, the files will automatically be pushed to your other iOS devices. Your data is always with you when you need it.



DiskStation



	xs Series		+ Series								Value Series				
Model Name	RS3412xs/RS3412RPxs	DS3612xs	RS2212+/RS2212RP+	RS812+/RS812RP+	DS2411+	DS1812+	DS1512+	DS712+	DS412+	DS212+	RS812	DS411	RS212	DS212	DS111
Performance (MB/sec)	Read : 1676.7 MB/sec <sup>(4)</sup> Write : 1077.46 MB/sec	Read : 1958.76 MB/sec <sup>(4)</sup> Write : 1086.37 MB/sec	Read : 202.26 MB/sec <sup>(5)</sup> Write : 194.37 MB/sec	Read : 205.67 MB/sec <sup>(5)</sup> Write : 176.37 MB/sec	Read : 202.36 MB/sec <sup>(5)</sup> Write : 167.43 MB/sec	Read : 202.20 MB/sec <sup>(5)</sup> Write : 194.48 MB/sec	Read : 192.4 MB/sec <sup>(5)</sup> Write : 194.6 MB/sec	Read : 180.91 MB/sec <sup>(5)</sup> Write : 105.59 MB/sec	Read : 202.36 MB/sec <sup>(5)</sup> Write : 179.15 MB/sec	Read : 107.81 MB/sec Write : 65.69 MB/sec	Read : 107.63 MB/sec Write : 54.74 MB/sec	Read : 104.07 MB/sec Write : 54.74 MB/sec	Read : 106.33 MB/sec Write : 62.68 MB/sec	Read : 107.16 MB/sec Write : 63.88 MB/sec	Read : 109.25 MB/sec Write : 72.81 MB/sec
CPU Frequency	Dual Core 3.1 GHz	Dual Core 3.1 GHz	Dual Core 2.13 GHz	Dual Core 2.13 GHz	Dual Core 1.8 GHz	Dual Core 2.13 GHz	Dual Core 2.13 GHz	1.8 GHz	Dual Core 2.13 GHz	2.0 GHz	1.6 GHz	1.6 GHz	1.6 GHz	1.6 GHz	1.6 GHz
Memory Bus	64bit dual channel@DDR1333	64bit dual channel@DDR1333	64bit@DDR1066	64bit@DDR1066	64bit@DDR800	64bit@DDR1066	64bit@DDR1066	64bit@DDR1066	64bit@DDR1066	16bit@DDR1066	16bit@DDR1066	16bit@DDR1066	16bit@DDR1066	16bit@DDR1066	16bit@DDR1066
Floating Point	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
Hardware Encryption Engine	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
RAM	2GB ECC (Up to 6GB)	2GB ECC (Up to 6GB)	1GB DDR3 (Up to 3GB)	1GB DDR3 (Up to 3GB)	1GB (Up to 3GB)	1GB DDR3 (Up to 3GB)	1GB DDR3 (Up to 3GB)	1GB DDR3	1GB DDR3	512MB DDR3	512MB DDR3	512MB DDR3	256MB DDR3	256MB DDR3	256MB DDR3
Internal HDD Interface	10X SATA(II)	12X SATA(II)	10X SATA(II)	4X SATA(II)	12X SATA(II)	8X SATA(II)	5X SATA(II)	2X SATA(II)	4X SATA(II)	2X SATA(II)	4X SATA(II)	4X SATA(II)	2X SATA(II)	2X SATA(II)	1X SATA(II)
External Device Interface	4X USB 2.0, 2X InfiniBand <sup>(7)</sup>	4X USB 2.0, 2X InfiniBand <sup>(7)</sup>	4X USB 2.0, 1X InfiniBand <sup>(7)</sup>	2X USB 2.0, 1X eSATA	4X USB 2.0, 1X InfiniBand <sup>(7)</sup>	2X USB 3.0, 4X USB 2.0, 2X eSATA	2X USB 3.0, 4X USB 2.0, 2X eSATA	3X USB 2.0, 1X eSATA	2X USB 3.0, 1X USB 2.0, 1X eSATA	2X USB 3.0, 1X USB 2.0, 1X eSATA, 1X SD card	2X USB 2.0, 1X eSATA	2X USB 2.0, 1X eSATA	2X USB 2.0, 1X eSATA	2X USB 3.0, 1X USB 2.0, 1X SD card	3X USB 2.0, 1X eSATA
MAX HDD Support <sup>(1)</sup>	3TB	3TB	3TB	4TB	3TB	4TB	4TB	4TB	4TB	4TB	4TB	4TB	4TB	4TB	4TB
Size (mm) (HxWxD)	88 X 445 X 570	310 X 300 X 340	88 X 445 X 570	44 X 430.5 X 457.5/570.5	270 X 300 X 340	157 X 340 X 233	157 X 340 X 233	157 X 103.5 X 232	165 X 203 X 233.2	165 X 108 X 233.2	44 X 430.5 X 457.5	184 X 168 X 230	44 X 430.5 X 287.5	165 X 108 X 233.2	160 X 63 X 218
Gigabit LAN	4 (additional 2X 10GbE)	4 (additional 2X 10GbE)	2	2	2	2	2	2	2	1	2	1	2	1	1
Power Consumption <sup>(2)</sup>	Access : 115.5W HDD Hibernation : 57.2W	Access : 132W HDD Hibernation : 57.2W	Access : 88W HDD Hibernation : 36W	Access : 46.2W HDD Hibernation : 25.3W	Access : 104.5W HDD Hibernation : 38.5W	Access : 71.5W HDD Hibernation : 28.6W	Access : 50.6W HDD Hibernation : 22W	Access : 27.5W HDD Hibernation : 17.6W	Access : 44W HDD Hibernation : 15W	Access : 18.7W HDD Hibernation : 7.9W	Access : 37W HDD Hibernation : 14.3W	Access : 29.7W HDD Hibernation : 11W	Access : 25.3W HDD Hibernation : 16.5W	Access : 18.2W HDD Hibernation : 6.8W	Access : 18.7W HDD Hibernation : 7.7W
Scheduled Power On/Off	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hot Swappable HDD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No
File System	EXT4, EXT3(External Disk Only), FAT(External Disk Only), NTFS(External Disk Only)										EXT4, EXT3(External Disk Only), FAT(External Disk Only), NTFS(External Disk Only)				
Networking Protocols	CIFS, AFP, FTP, Telnet, SSH, NFS, iSCSI, WebDAV										CIFS, AFP, FTP, Telnet, SSH, NFS, iSCSI, WebDAV				
Volume Type	Basic, JBOD, RAID 0/1/5/6/10, RAID 5+ Spare, SHR								Basic, JBOD, RAID 0/1/5/6/10, RAID 5+ Spare, SHR <sup>(6)</sup>		Basic, JBOD, RAID 0/1, SHR		Basic, JBOD, RAID 0/1/5/6/10, RAID 5+ Spare, SHR		Basic
Windows ADS Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAX IP Camera # <sup>(3)</sup>	50	50	20	20	20	20	20	16	20	12	12	12	8	8	8
MAX User Accounts	4,096	4,096	2,048	2,048	2,048	2,048	2,048	2,048	2,048	2,048	2,048	2,048	2,048	2,048	2,048
MAX Groups	512	512	256	256	256	256	256	256	256	256	256	256	256	256	256
MAX Concurrent Connections (Samba, FTP, AFP)	1,024	1,024	512	512	512	512	512	512	512	256	256	256	128	128	128
Supported Clients	Windows, Mac, Linux										Windows, Mac, Linux				
Firmware	Synology DiskStation Manager										Synology DiskStation Manager				
Warranty (years)	3						3			2		3	2	3	2

Expansion unit



Model Name	RX12iI	RX12iI RP	DX12iI	DX510	RX4iO
Internal HDD	12X SATA(II)	12X SATA(II)	12X SATA(II)	5X SATA(II)	4X SATA(II)
MAX HDD Support <sup>(1)</sup>	3TB	3TB	3TB	4TB	4TB
Size (mm) (HxWxD)	88x 445 X 570	88 X 445 X 570	270 X 300 X 340	157 X 248 X 233	44 X 430.5 X 457.5
Volume Type	Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+ Spare, RAID 6, RAID 10, SHR				

VisualStation



Model Name	V580		
External Device Interface	2X USB	MAX Camera Resolution	4, 6 channel D1: (640x480 in VGA, 720x480 in NTSC, 720x576 in PAL)
LAN	1X 10/100 Mbps		
Video Output	1X VGA	Size (mm) (HxWxD)	160 X 63 X 218
Audio Output	1X 3.5mm Stereo Audio Jack		
Display Mode	2x2, 3x2 or 3x3 panels		

(1) HDD not included. Check [www.synology.com](http://www.synology.com) for compatible HDD models.  
 (2) The power consumption value is for reference only and will vary with hard drive models and capacity.  
 (3) 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.  
 (4) The performance figures were tested with two 10GbE connections under Link Aggregation. For more detailed testing numbers please visit [www.synology.com](http://www.synology.com).  
 (5) The performance figures were tested under Link Aggregation.  
 (6) Synology DiskStation DS712+ supports RAID 5/6/10/5+ Spare only with Synology DX510.  
 (7) InfiniBand carries 12Gb/s SATA signal.

DiskStation



j Series				
Model Name	DS411slim	DS411j	DS212j	DS112j
Performance (MB/sec)	Read : 106.41 MB/sec Write : 55.09 MB/sec	Read : 84.61 MB/sec Write : 41.69 MB/sec	Read : 92.10 MB/sec Write : 50.77 MB/sec	Read : 81.8 MB/sec Write : 51.3 MD/sec
CPU Frequency	1.6 GHz	1.2 GHz	1.2 GHz	1.0 GHz
Memory Bus	16bit@DDR1066	16bit@DDR800	16bit@DDR800	16bit@DDR800
Floating Point	No	No	No	No
Hardware Encryption Engine	Yes	Yes	Yes	Yes
RAM	256MB DDR3	128MB	256MB	128MB
Internal HDD	4X 2.5" SATA(II)	4X SATA(II)	2X SATA(II)	1X SATA(II)
External Device Interface	2X USB 2.0, 1X eSATA	2X USB 2.0	2X USB 2.0	2X USB 2.0
MAX HDD Support <sup>(1)</sup>	1TB	4TB	4TB	4TB
Size (mm) (HxWxD)	120 X 105 X 142	184 X 168 X 230	165 X 100 X 225.5	160 X 71 X 224
Gigabit LAN	1	1	1	1
Power Consumption <sup>(2)</sup>	Access : 16.8W HDD Hibernation : 9.6W	Access : 30.8W HDD Hibernation : 11W	Access : 17.6W HDD Hibernation : 5.5W	Access : 12.1W HDD Hibernation : 4.4W
Scheduled Power On/Off	Yes	Yes	Yes	Yes
Hot Swappable HDD	No, Easy-Replacement	No	No	No
File System	EXT4, EXT3(External Disk Only), FAT(External Disk Only), NTFS(External Disk Only)			
Networking Protocols	CIFS, AFP, FTP, Telnet, SSH, NFS, iSCSI, WebDAV			
Volume Type	Basic, JBOD, RAID 0/1/5/6/10, RAID 5+Spare, SHR		Basic, JBOD, RAID 0/1, SHR	
Windows ADS Support	Yes	Yes	Yes	Yes
MAX IP Camera # <sup>(3)</sup>	8	5	5	5
MAX User Accounts	2,048	1,024	512	512
MAX Groups	256	256	128	128
MAX Concurrent Connections (Samba, FTP, AFP)	128	128	64	64
Supported Clients	Windows, Mac, Linux			
Firmware	Synology DiskStation Manager			
Warranty (years)	2			

USB Station 2



Model Name	USB Station 2
External HDD Interface	2X USB
USB 2.0 port	2
Max Capacity (External HDD)	3TB X2
LAN	Gigabit X1
File System	EXT4/EXT3/FAT32/ NTFS
Printing Protocol Support	LPR / CIFS / Apple Talk
Max Printer Support	2
Size (mm) (HxWxD)	46 X 122 X 111

Synology Remote



Model Name	Remote
Size (mm) (DxWxH)	115 X 55 X 14.3
Weight (g)	55
Audio Output Options	3.5mm Stereo Audio Jack, S/PDIF, USB Interface
Transmission Distance	30m

- (1) HDD not included. Check [www.synology.com](http://www.synology.com) for compatible HDD models.
- (2) The power consumption value is for reference only and will vary with hard drive models and capacity.
- (3) 1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.