Synology DiskStation

User's Guide

Applied Model:

DS110j, DS210j, DS410j, DS410, DS710+, DS1010+, DS109, DS109+, DS209, DS209+II, DS409slim, RS409, RS409+, RS409RP+ **Document ID:** Syno_UserGuide_NASeries_enu **Based on Version:** DSM 2.2-1060

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About this User's Guide

This user's guide covers all major functions of Synology NAS Server ("Synology DiskStation"). Some of the functions may only be available on specific models. Please refer to product specification for further details.

Getting to know your Synology DiskStation

Introduction

Congratulations on your purchase of *Synology DiskStation*. *Synology DiskStation* is specially designed for the following purposes:

Storing and Sharing Files via the Internet

Windows users, Mac users, and Linux users can easily share files within the Intranet or through the Internet. Unicode language support makes sharing files in different languages from *Synology DiskStation* simple.

Sharing Storage Capacity as an iSCSI Target

You can designate portion of your *Synology DiskStation* volume space to be an iSCSI Target, which will allow the iSCSI initiator to access the space like a local disk.

PC Data and Server Data Backup

Synology DiskStation provides various backup solutions to back up PC data to Synology DiskStation, back up Synology DiskStation data to an external hard drive, another Synology DiskStation, or an rsync-compatible server.

Transferring Data via FTP

Synology DiskStation provides FTP service with bandwidth restriction and anonymous login. To transfer data safely, FTP over SSL/TLS and uninvited IP auto-block are also available.

Managing Files through Web Browsers

File Station 2 makes it possible for users to manage their files on *Synology DiskStation* easily through a web interface with Windows style file operations. You can also access the files stored on *Synology DiskStation* with a mobile device.

Sharing Photos, Videos, and Blogs with Photo Station 3

Photo Station 3 gives you the freedom to share photos and videos over the Internet without complicated upload steps. Album control ensures the content is shared with the right persons. Visitors can leave comments for your photos. Furthermore, a brand new blogging system is integrated for you to easily share your life and thoughts over the Internet.

Enjoying Entertainment Content on the Server

Download Station allows you to download files from the Internet through BitTorrent, FTP, HTTP, eMule and NZB to *Synology DiskStation*. Moreover, if you have an UPnP DMA connected in the LAN, you can share the multimedia files on *Synology DiskStation*. If you just want to share and play mp3 files stored on *Synology DiskStation*, you can enable iTunes Service, and enjoy the music through any iTunes clients on LAN.

The built-in USBCopy button^{*} on the device allows instant copy of photos from the camera to *Synology DiskStation*.

Enjoying Music instantly anytime

When a pair of USB speakers is connected to the *Synology DiskStation*, Audio Station allows users to listen to music stored on the *Synology DiskStation*, from a connected iPod, or even stream Internet Radio stations. In addition, users can stream music from the *Synology DiskStation* with a web browser over the Internet.

Hosting Websites

The Virtual Host feature allows you to host up to 30 websites using Web Station, with PHP and MySQL supported.

Video Recording with IP Cameras

Surveillance Station 3 allows you to manage, view, and record videos from multiple IP cameras over the network. By accessing the web-based management interface of Surveillance Station 3, you can watch the real-time image the camera is monitoring, and record videos continuously, in motion-detection mode, or in alarm-recording mode.

USB Printer Server

You can share up to 2 USB 2.0 Printers through the LAN.

^{*} Supported on specific models only. Please refer to the product Specification table.

Specification

For the most recent product specification, please visit <u>www.synology.com</u>

Item	DS109	DS109+	DS110j		
Internal HDD	3.5 SATA (II) x 1	3.5 SATA (II) x 1	3.5 SATA (II) x 1		
Max. Capacity	2TB	2TB	2TB		
Hot Swappable HDD	No	No	No		
	USB x 3	USB x 3	1105		
External HDD Interface	eSATA x 1	eSATA x 1	USB x 3		
LAN Port	Gigabit x 1	Gigabit x 1	Gigabit x 1		
USBCopy	Yes	Yes	Yes		
System Fan (mm)	x 1 (50 x 50)	x 1 (50 x 50)	x 1 (50 x 50)		
Size (HxWxD) (mm)	160 x 63 x 218	160 x 63 x 218	160 x 63 x 218		
Weight (Kg)	0.81	0.81	0.81		
		Windows 2000 onward			
Supported Clients		Mac OS X 10.3 onward			
		• Linux			
Max. User Accounts	1024	2048	512		
Max. Group Accounts	128	256	128		
Max. Shared Folder	256	256	256		
Max. Concurrent	0.1	050			
Connections	64	256	64		
Max. Supported IP	0	10	-		
Cameras	8	12	5		
	• EXT3				
File System	•	FAT (External Disk, Read/Write	e)		
	NTFS (External Disk, Read/Write)				
Volume Type		 Basic 			
Agency Certifications	• FCC (Class B · CE Class B · BSMI	Class B		
HDD Hibernation	Yes	Yes	Yes		
Event Notification	Yes	Yes	Yes		
NTP	Yes	Yes	Yes		
FTP over SSL/TLS	Yes	Yes	Yes		
HTTPS Connection	Yes	Yes	Yes		
Windows ADS Domain	Yes	Yes	Yes		
iSCSI	Yes	Yes	Yes		
Scheduled Power On/Off	Yes	Yes	Yes		
	English · Deutsch · Fra	ançais • Italiano • Español •	Dansk · Norsk · Svensk		
Language Localization	Language Localization · Nederlands · Русский · Polski · Magyar · Português do Brasil · Português				
	・Türkçe ・Český ・日本語・한국어・繁體中文・简体中文				
	Line voltage: 100V to 240V AC				
Power Consumption	Frequency: 50/60Hz				
And		rating Temperature: 40 to 95°F			
Environment	 Storage Temperature: 15 to 155°F (-10 to 70°C) 				
Requirements	Relative Humidity: 5% to 95% RH				
	• Max	kimum Operating Altitude: 1000	00 feet		

Item	DS209	DS209+II	DS210j	DS710+	
Internal HDD	3.5 SATA (II) x 2	3.5 SATA (II) x 2	3.5 SATA (II) x 2	SATA(II) x 2	
	4TB	4TB	4TB	4TB	
Max. Capacity	(2 x 2TB hard drives)	(2 x 2TB hard drives)	(2 x 2TB hard drives)	(2 x 2TB hard drives)	
Hot Swappable	No	No	No	Yes	
HDD	110	110	110	100	
External HDD	USB x 3	USB x 3	USB x 3	USB x 3	
Interface	000 × 0	eSATA x 1	000 × 0	eSATA x 1	
LAN Port	Gigabit x 1	Gigabit x 1	Gigabit x 1	Gigabit x 1	
USBCopy	Yes	Yes	Yes	Yes	
System Fan	x 1 (70 x 70)	x 1 (70 x 70)	x 1 (70 x 70)	x 1 (80 x 80)	
(mm)	x T (70 x 70)	× T (70 × 70)	× T (70 × 70)	x T (00 x 00)	
Size (HxWxD)	161 x 88 x 218	161 x 88 x 218	161 x 88 x 218	157 x 103.5 x 232	
(mm)	101 x 00 x 210	101 x 00 x 210	101 x 00 x 210	107 × 100.0 × 202	
Weight (Kg)	0.98	0.98	0.98	1.69	
Supported		Windows 2	2000 onward		
Clients		 Mac OS X 	10.3 onward		
Olicints		۰L	inux	ſ	
Max. User	1024	2048	512	2048	
Accounts	1021	2010	012	2010	
Max. Group	128	256	128	256	
Accounts	120	200	120	230	
Max. Shared	256	256	256	256	
Folder	200	230	230	230	
Max. Concurrent	128	256	64	512	
Connections	120	230	04	512	
Max. Supported	8	12	5	16	
IP Cameras	Ŭ	12			
File System	• EXT3 • FAT (External Disk, Read/Write) • NTFS (External Disk, Read/Write)				
Volume Type	Basic · JBOD · RAID 0 · RAID 1				
Agency		• FCC Class B • CE Class B • BSMI Class B			
Certifications					
HDD Hibernation	Yes	Yes	Yes	Yes	
Event	Yes	Yes	Yes	Yes	
Notification					
NTP	Yes	Yes	Yes	Yes	
FTP over	Yes	Yes	Yes	Yes	
SSL/TLS					
HTTPS	Yes	Yes	Yes	Yes	
Connection					
Windows ADS	Yes	Yes	Yes	Yes	
Domain					
iSCSI	Yes	Yes	Yes	Yes	
Scheduled	Yes Yes		Yes	Off Only	
Power On/Off					
Language	 English · Deutsch · Français · Italiano · Español · Dansk · Norsk · Svensk Nederlands · Русский · Polski · Magyar · Português do Brasil · Português Europeu 				
Localization			-		
	• Tü		 ・ 한국어・繁體中文・简体 	又世4	
Power	Line voltage: 100V to 240V AC				

Item	DS209	DS209+II	DS210j	DS710+	
Consumption	Frequency: 50/60Hz				
And	 Operating Temperature: 40 to 95°F (5 to 35°C) 				
Environment	 Storage Temperature: 15 to 155°F (-10 to 70°C) 				
Requirements	Relative Humidity: 5% to 95% RH				
	Maximum Operating Altitude: 10000 feet				

Item	DS409slim	DS410j	DS410	RS409	RS409+	RS409RP+
	2.5 SATA (II)	3.5 SATA (II)	3.5 SATA (II)	3.5 SATA (II)	3.5 SATA (II)	3.5 SATA (II)
Internal HDD	x 4	x 4	x 4	x 4	x 4	x 4
	3TB	8TB	8TB	8TB	8TB	8TB
Max.	(4 x 750GB	(4 x 2TB hard	(4 x 2TB hard	(4 x 2TB hard	(4 x 2TB hard	(4 x 2TB hard
Capacity	hard drives)	drives)	drives)	drives)	drives)	drives)
Hot						
Swappable	No	No	No	Yes	Yes	Yes
HDD						
External HDD	USB x 2	USB x 2	USB x 2	USB x 2	USB x 2	USB x 2
Interface	eSATA x 1	000 x 2	eSATA x 1	eSATA x 1	eSATA x 1	eSATA x 1
LAN Port	Gigabit x 1	Gigabit x 1	Gigabit x 1	Gigabit x 2	Gigabit x 2	Gigabit x 2
USBCopy	Yes	No	No	No	No	No
System Fan (mm)	x 1 (60 x 60)	x 2 (80 x 80)	x 2 (80 x 80)	x 3 (40 x 40)	x 3 (40 x 40)	x 4 (40 x 40)
Power Fan (mm)	No	No	No	x 1 (40 x 40)	x 1 (40 x 40)	x 1 (40 x 40)
Size	120 x 105 x	168 x 184 x	168 x 184 x	44 x 430.5 x	44 x 430.5 x	44 x 430.5 x
(HxWxD)	120 x 105 x 142	230	230	44 x 430.5 x 457.5	44 x 430.5 x 457.5	44 x 430.5 x 457.5
(mm)	142	230	230	437.5	457.5	457.5
Weight (Kg)	0.66	2.23	2.23	7.1	7.1	9.68
Supported			 Windows 2 	2000 Onward		
Clients				10.3 Onward		
		[۰Li	inux	Γ	
Max. User	1024	1024	2048	2048	2048	2048
Accounts						
Max. Group	128	256	256	256	256	256
Accounts Max. Shared						
Folder	256	256	256	256	256	256
Max.						
Concurrent	64	128	256	128	512	512
Connections						
Max.						
Supported IP	8	5	12	8	12	12
Cameras						
			۰E	ХТЗ		
File System			FAT (External I	Disk, Read/Write)		
			 NTFS (External 	Disk, Read/Write	e)	
Volume Type		Basic • JBOD •	RAID 0 • RAID 1	RAID 5 • RAID	5+Spare · RAID	6
Agency	FCC Class B · CE Class B					
Certifications		BSMI Class B		FCC	Class A · CE Class	ass A
HDD						
Hibernation	Yes	Yes	Yes	Yes	Yes	Yes
Event	Vac	Vac	Vaa	Vac	Vaa	Vee
Notification	Yes	Yes	Yes	Yes	Yes	Yes
NTP	Yes	Yes	Yes	Yes	Yes	Yes
FTP over SSL/TLS	Yes	Yes	Yes	Yes	Yes	Yes

Item	DS409slim	DS410j	DS410	RS409	RS409+	RS409RP+
HTTPS Connection	Yes	Yes	Yes	Yes	Yes	Yes
Windows ADS Domain	Yes	Yes	Yes	Yes	Yes	Yes
iSCSI	Yes	Yes	Yes	Yes	Yes	Yes
Scheduled Power On/Off	Yes	Yes	Yes	Yes	Yes	Yes
Language Localization	・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					
Power Consumption And Environment Requirements	Line voltage: 100V to 240V AC • Frequency: 50/60Hz • Operating Temperature: 40 to 95°F (5 to 35°C) • Storage Temperature: 15 to 155°F (-10 to 70°C) • Relative Humidity: 5% to 95% RH • Maximum Operating Altitude: 10000 feet					

Item	DS1010+		
Internal HDD	3.5 SATA (II) x 5		
Max Capacity	10TB		
Max. Capacity	(5 x 2TB hard drives)		
Hot Swappable HDD	Yes		
External HDD	USB x 4		
Interface	eSATA x 1		
LAN Port	Gigabit x 2		
USBCopy	No		
System Fan (mm)	x 2 (80 x 80)		
Power Fan (mm)	x 1 (40 x 40)		
Size (HxWxD) (mm)	157 x 248 x 233		
Weight (Kg)	4.25		
Supported Clients	Windows 2000 Onward · Mac OS X 10.3 Onward · Linux		
Max. User Accounts	2048		
Max. Group Accounts	256		
Max. Shared Folder	256		
Max. Concurrent	512		
Connections	5 1 Z		
Max. Supported IP Cameras	20		
File System	• EXT3 • FAT (External Disk, Read/Write) • NTFS (External Disk, Read/Write)		
Volume Type	・Basic ・JBOD ・RAID 0 ・RAID 1 ・RAID 5 ・RAID 5+Spare ・RAID 6・		
Agency Certifications	FCC Class B CE Class B BSMI Class B		
HDD Hibernation	Yes		
Event Notification	Yes		
NTP	Yes		
FTP over SSL/TLS	Yes		
HTTPS Connection	Yes		
Windows ADS Domain	Yes		
iSCSI	Yes		
Scheduled Power			
On/Off	Off Only		
Language Localization	・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		

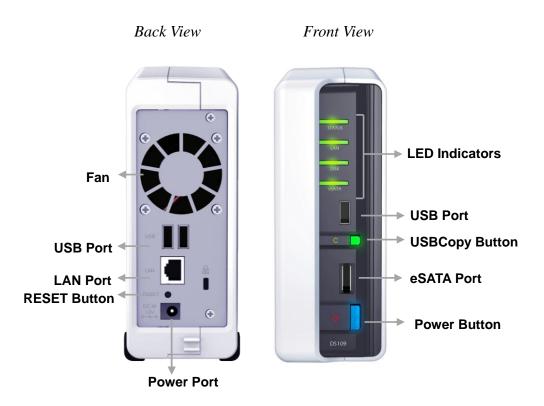
D\$1010+	
Line voltage: 100V to 240V AC • Frequency: 50/60Hz • Operating Temperature: 40 to 95°F (5 to 35°C) • Storage Temperature: 15 to 155°F (-10 to 70°C) • Relative Humidity: 5% to 95% RH • Maximum Operating Altitude: 10000 feet	
	Line voltage: 100V to 240V AC • Frequency: 50/60Hz • Operating Temperature: 40 to 95°F (5 to 35°C) • Storage Temperature: 15 to 155°F (-10 to 70°C) • Relative Humidity: 5% to 95% RH

Limitations

- 1. Each Synology DiskStation supports up to 2 USB printers.
- 2. USBCopy function only supports USB disks with FAT32 file system.
- 3. Some digital cameras are defined as a Still Image Device, such as Canon. For such devices, *Synology DiskStation* only supports USBCopy function (No USB share function).
- 4. For Mac users, *Synology DiskStation* supports only USB printers with PostScript.

Appearance

1-bay & 2-bay DiskStation DiskStation (DS710+ excluded)



Article Name	Location	Description
Power Button	Front Panel	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button and hold it until you hear a "beep" sound and the Power LED starts blinking.
LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more detail please refer to the following LED Indication Table .
USBCopy Button	Front Panel	The USBCopy Button lights up when you connect a USB Device (for example: digital camera, USB flash disk). Pressing the button will copy the data from the connected USB device to Synology DiskStation's internal HDD.
USB Port	Front & Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.
eSATA Port	Front Panel	The eSATA port is for connecting with an external SATA HDD.
Fan	Back Panel	The fan is built to exhaust waste heat out of Synology DiskStation. It will start automatically when the server starts. If the fan is malfunctioning, system will "beep" every 1 second.
RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation.
LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.
Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.

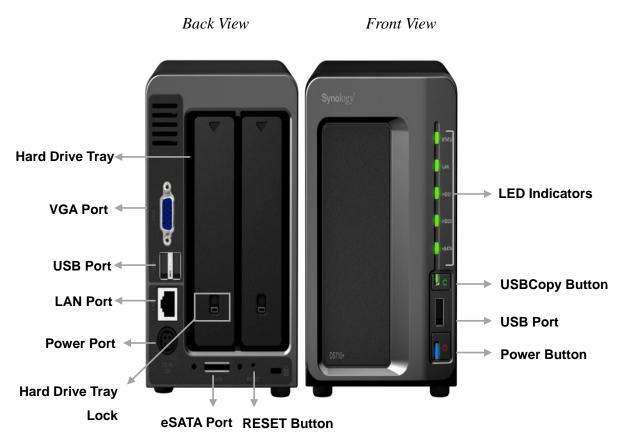
1-bay Models					
LED Indication	Color	Status	Description		
	Green	Static	Volume normal		
	Green	Off	Hibernation		
STATUS		Static	Available volume		
51A105	Orango	Static	space < 1GB		
	Orange	Blinking	Volume degraded or crashed		
		Billiking	No volume		
	Green	Static	Network is normal		
LAN		Blinking	Network is active		
		Off	Network is down		
	Green	Static	Disk is normal		
DISK / eSATA		Blinking	Disk is being accessed		
		Off	No internal disk		
		Static	USB disk detected		
USBCopy	Green	Blinking	Copying data		
		Off	No USB disk attached		
		Static	System ready		
Power	Power Blue	Blinking	Booting up		
Fower		Blinking	Shutting down		
		Off	Power off		

LED Indications Table

	2-bay Models					
LED Indication	Color	Status	Description			
	Blue	Static	Volume normal			
	Diue	Off	Hibernation			
STATUS		Static	Available volume			
STATUS	Orange	Static	space < 1GB			
		Blinking	Volume degraded or crashed			
			No volume			
	Green	Static	Network is up			
LAN		Blinking	Network is active			
		Off	Network is down			
			Static	Disk is ready and idle		
DISK / eSATA	Green	Blinking	Disk is being accessed			
		Off	No internal disk			

2-bay Models				
LED Indication	Color	Status	Description	
	Orange	Static	Cannot read / write	
		Static	USB disk detected	
USBCopy	Green	Blinking	Copying data	
		Off	No USB disk attached	
	Blue	Static	System ready	
Dewer		Blinking	Booting up or	
Power			Shutting down	
		Off	Power off	

DS710+



Article Name	Location	Description
Power Button LED	Front Panel Front	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button and hold it until you hear a "beep" sound and the Power LED starts blinking. The LED indicator is used to display the status of the
Indicators	Panel	internal disk and the system. For more detail please refer to the following LED Indication Table.
USBCopy Button	Front Panel	The USBCopy Button lights up when you connect a USB Device (for example: digital camera, USB flash disk). Pressing the button will copy the data from the connected USB device to Synology DiskStation's internal HDD.
USB Port	Front & Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.
eSATA Port	Back Panel	The eSATA port is for connecting with an external SATA HDD.
RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation.
Hard Drive	Back	The hard drive tray is designed for loading the hard
Tray Hard Drive Tray Lock	Panel Back Panel	drives used in Synology DiskStation. Each hard drive tray is equipped with one tray lock to lock/unlock the trays to the DiskStation.
VGA Port	Back Panel	The VGA port is where you connect Synology DiskStation directly to a LCD monitor.
LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.
Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.

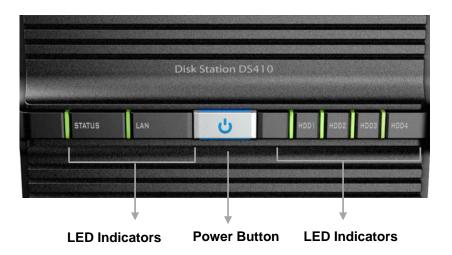
DS710+				
LED Indication	Color	Status	Description	
	Green	Static	Volume Normal	
	Green	Off	Hibernation	
STATUS		Static	Available volume space < 1GB	
	Orange	Blinking	Volume degraded or crashed	
		Diiliking	No volume	
		Static	Gigabit link	
	Green	Blinking	Network is active	
LAN		Off	Network is down	
LAN		Static	10/100MB link	
	Orange	Blinking	Network is active	
		Off	Network is down	
	Green	Static	Disk ready	
HDD1 & HDD2		Blinking	Disk is being accessed	
		Off	No internal disk	
	Orange	Static	Cannot Read/Write	
		Static	System ready	
Dowor	Blue	Dlinking	Booting up	
Power	Diue	Blinking	Shutting down	
		Off	Power off	
		Static	USB disk detected	
USBCopy	Green	Blinking	Copying data	
		Off	No USB disk attached	

LED Indications Table

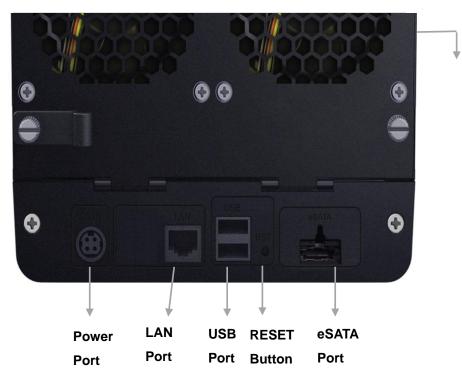
4-bay DiskStation

DiskStation (DS409slim excluded)

Front View



Back View



Fan

Article	Location	Description
Name		
		The Power Button is used to turn Synology DiskStation
		on or off.
Power	Front	To turn off Synology DiskStation, press the Power Button
Button	Panel	and hold it until you hear a "beep" sound and the Power
		LED starts blinking. The shutdown process will complete
		in 30 seconds
LED	Front	The LED indicator is used to display the status of the
Indicators	Panel	internal disk and the system. For more detail please
Indicators		refer to the following LED Indication Table.
	Back	The Synology DiskStation offers USB ports for adding
USB Port	Panel	additional external hard drives, USB printers, or other
		USB devices.
		The fan is built to exhaust waste heat out of Synology
Fan	Back	DiskStation. It will start automatically when the server
i an	Panel	starts. If the fan is malfunctioning, system will "beep"
		every 1 second.
eSATA Port	Back	The eSATA port is for connecting with an external SATA
COAIAT OIL	Panel	HDD.
RESET	Book	1. To restore IP, DNS, passwords for the admin
	Back Panel	account to default value.
Button Panel		2. To reinstall the Synology DiskStation.
	Back	The LAN port is where you connect RJ-45 cable to
LAN Port	Panel	Synology DiskStation.
Dower Dort	Back	The power port is where you connect the AC adapter to
Power Port	Panel	Synology DiskStation.

4-bay DiskStation				
LED Indication	Color	Status	Description	
	Green	Static	Volume Normal	
	Green	Off	Hibernation	
STATUS		Static	Available volume space < 1GB	
	Orange	Plinking	Volume degraded or crashed	
		Blinking	No volume	
	Green	Static	Network is up	
LAN		Blinking	Network is active	
		Off	Network is down	
	Green	Static	Disk ready	
DISK 1~4		Blinking	Disk is being accessed	
DISK 1~4		Off	No internal disk	
	Orange	Static	Cannot Read/ Write	
Dawar		Static	System ready	
	Blue		Plue Plinking	Booting up
Power		Blinking	Shutting down	
		Off	Power off	

LED Indication Table

DS409slim

Front View





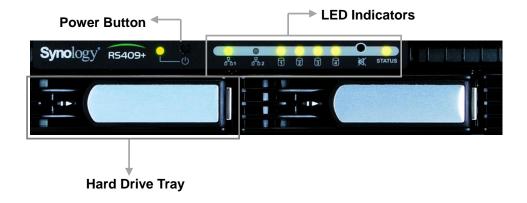
Article Name	Location	Description
		The Power Button is used to turn Synology DiskStation
		on or off.
Power	Front	To turn off Synology DiskStation, press the Power Button
Button	Panel	and hold it until you hear a "beep" sound and the Power
		LED starts blinking. The shutdown process will complete
		in 30 seconds.
	– <i>i</i>	The LED indicator is used to display the status of the
LED	Front	internal disk and the system. For more detail please
Indicators	Panel	refer to the following LED Indication Table.
		The USBCopy Button lights up when you connect a USB
LICEConv	Front	Device (for example: digital camera, USB flash disk).
USBCopy Button	Panel	Pressing the button will copy the data from the
DULLON	Panel	connected USB device to Synology DiskStation's
		internal HDD.
	Front &	The Synology DiskStation offers USB ports for adding
USB Port	Back	additional external hard drives, USB printers, or other
	Panel	USB devices.
eSATA Port	Back	The eSATA port is for connecting with an external SATA
CONTAI OIL	Panel	HDD.
DECET	Deels	1. To restore IP, DNS, passwords for the admin
RESET	Back	account to default value.
Button	Panel	2. To reinstall the Synology DiskStation.
	Back	The LAN port is where you connect RJ-45 cable to
LAN Port	Panel	Synology DiskStation.
Hard Drive	Back	The hard drive tray is designed for loading the hard
Tray	Panel	drives used in Synology DiskStation.
Dower Dort	Back	The power port is where you connect the AC adapter to
Power Port	Panel	Synology DiskStation.

DS409slim				
LED Indication	Color	Status	Description	
	Green	Static	Volume Normal	
	Green	Off	Hibernation	
STATUS		Static	Available volume space < 1GB	
	Orange	Plinking	Volume degraded or crashed	
		Blinking	No volume	
	Green	Static	Network is up	
LAN		Blinking	Network is active	
		Off	Network is down	
	Green	Static	Disk ready	
DISK 1~4		Blinking	Disk is being accessed	
DISK 1~4		Off	No internal disk	
	Orange	Static	Cannot Read/ Write	
Davias		Static	System ready	
	Blue		Dive Diekiss	Booting up
Power		Blue Blinking	Shutting down	
		Off	Power off	

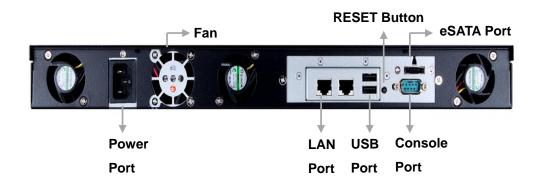
LED Indication Table

4-bay 1U RackStation

Front View



Back View



Article	Location	Description	
Name			
Power	Front	The Power Button is used to turn Synology DiskStation on or off. To turn off Synology DiskStation, press the Power Button	
Button	Panel	and hold it until you hear a "beep" sound and the Power LED starts blinking. The shutdown process will complete in 30 seconds.	
LED Indicators	Front Panel	The LED indicator is used to display the status of the internal disk and the system. For more detail please refer to the following LED Indication Table .	
Hard Drive Tray	Front Panel	The hard drive tray is designed for loading the hard drives used in Synology DiskStation.	
USB Port	Back Panel	The Synology DiskStation offers USB ports for adding additional external hard drives, USB printers, or other USB devices.	
Fan	Back Panel	The fan is built to exhaust waste heat out of Synology DiskStation. It will start automatically when the server starts. If the fan is malfunctioning, system will "beep" every 1 second.	
eSATA Port	Back Panel	The eSATA port is for connecting with an external SATA HDD.	
RESET Button	Back Panel	 To restore IP, DNS, passwords for the admin account to default value. To reinstall the Synology DiskStation. 	
LAN Port	Back Panel	The LAN port is where you connect RJ-45 cable to Synology DiskStation.	
Console Port	Back Panel	The console port is where you connect Synology DiskStation directly to a computer.	
Power Port	Back Panel	The power port is where you connect the AC adapter to Synology DiskStation.	

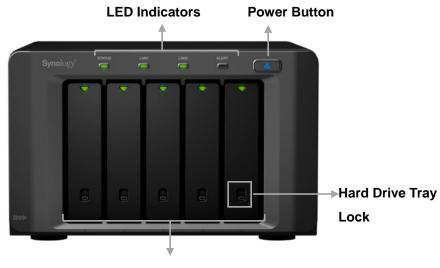
1U RackStation				
LED Indication	Color	Status	Description	
	Green	Static	Volume Normal	
	Green	Off	Hibernation	
STATUS		Static	Available volume space < 1GB	
	Orange	Plinking	Volume degraded or crashed	
		Blinking	No volume	
		Static	Network is up	
LAN	Green	Blinking	Network is active	
		Off	Network is down	
	Green	Static	Disk ready	
DISK 1~4		Blinking	Disk is being accessed	
DISK 1~4		Off	No internal disk	
	Orange	Static	Cannot Read/ Write	
		Static	System ready	
Dewer	Dhue	Dlinking	Booting up	
Power	Blue	Blinking	Shutting down	
		Off	Power off	
		Static	Both redundant power supply	
RPS-STATUS*	Green		are working	
		Blinking	1 RPS not working	

LED Indication Table

* RS409RP+ only

5-bay DiskStation DS1010+

Front View



Hard Drive Tray





Article	Location	Description
Name		The Device Dutter is used to turn Concels on DisloCtation
		The Power Button is used to turn Synology DiskStation
Damas	Frant	on or off.
Power	Front	To turn off Synology DiskStation, press the Power Button
Button	Panel	and hold it until you hear a "beep" sound and the Power
		LED starts blinking. The shutdown process will complete
		in 30 seconds.
LED	Front	The LED indicator is used to display the status of the
Indicators	Panel	internal disk and the system. For more detail please
		refer to the following LED Indication Table.
Hard Drive	Front	The hard drive tray is designed for loading the hard
Tray	Panel	drives used in Synology DiskStation.
Hard Drive	Front	Each hard drive tray is equipped with one tray lock to
Tray Lock	Panel	lock/unlock the trays to the DiskStation.
	Back Panel	The Synology DiskStation offers USB ports for adding
USB Port		additional external hard drives, USB printers, or other
		USB devices.
		The fan is built to exhaust waste heat out of Synology
Fan	Back	DiskStation. It will start automatically when the server
	Panel	starts. If the fan is malfunctioning, system will "beep"
		every 1 second.
eSATA Port	Back	The eSATA port is for connecting with an external SATA
	Panel	HDD.
RESET	Back	1. To restore IP, DNS, passwords for the admin account
Button	Panel	to default value.
		2. To reinstall the Synology DiskStation.
LAN Port	Back	The LAN port is where you connect RJ-45 cable to
	Panel	Synology DiskStation.
VGA Port	Back	The VGA port is where you connect Synology
	Panel	DiskStation directly to a LCD monitor.
Power Port	Back	The power port is where you connect the power cord to
	Panel	Synology DiskStation.

LED Indications Table

DS1010+					
LED Indication	Color	Status	Description		
	0	Static	Volume Normal		
	Green	Off	Hibernation		
STATUS		Static	Available volume space < 1GB		
	Orange	Blinking	Volume degraded or crashed		
		Dilliking	No volume		
		Static	Gigabit link		
	Green	Blinking	Network is active		
LAN 1 & LAN 2		Off	Network is down		
	Orange	Static	10/100MB link		
		Blinking	Network is active		
		Off	Network is down		
Hard Disk Status		Static	Disk ready and idle		
Indicator	Green	Blinking	Disk is being accessed		
(on tray)		Off	No internal disk		
(on tray)	Orange	Static	Cannot Read/ Write		
ALERT	Orango	Blinking	Hardware error		
ALERI	Orange	Off	System ready		
		Static	System ready		
Power	Plue	Plinking	Booting up		
Power	Blue	Blinking	Shutting down		
		Off	Power off		

Managing Synology DiskStation

Entering Web Management UI

System administrator can manage the *Synology DiskStation* by entering the web management UI. There are two options for you to enter the management UI:

Using Setup Utility

Windows User

- 1. Insert the Installation CD into CD/DVD-Rom Drive.
- 2. Choose Synology Assistant on the Autorun Menu.

Quick Installation Guide	Install this program to quickly configure Synology server.
Set up the Synology Server	
Synology Assistant	
Data Replicator 3	
Download Redirector	
User's Guide	

- 3. Follow the steps to complete installation.
- 4. After installation, double click on the desktop icon to execute the program.



5. Choose the server you want to manage. Click **Connect** or double-click the selected server to enter the Web Management UI.

Synology Assistant							
Manageme <mark>nt</mark> Installa	tion Resource n	nonitor					Synology
옥 Search 🚠 Connec	t 🚅 Map Drive	🖨 Add Print	er 🖾 Set Up Reso	urce Monitor			🌣 🌖
Server name	n- address	IP status	System status	MAC address	Version	Model	Serial no
DiskStation	169.254.178.16	Manual	System is ready.	00:11:32:04:0C:EA	2.2-0922	DS207+	89E1N01506
						Total 1 Syn	ology Server(s) found

6. Choose **System administrator (admin**), input password, and click **Login**. The default password is empty.

ynology [®] Disk Stat	ion Manager 2.2
	Choose login account:
	 System administrator (admin)
	Other account
DiskStation	Enter password:

Mac OS X User

- 1. Insert the Installation CD into CD/DVD-Rom Drive.
- 2. Double-Click CD-Rom Drive thumbnail.
- 3. Double-Click MacOSX thumbnail.
- 4. Double-Click Synology Assistant-SYNOLOGY.dmg thumbnail.
- 5. Double-Click Synology Assistant thumbnail to run setup wizard.
- 6. Choose a *Synology DiskStation*. Click **Connect** or double-click the selected server to enter the Web Management UI.
- 7. Choose **System administrator (admin)**, input password and click **Enter**. The default password is empty.

Note: To ensure the process runs smoothly, please use the following				
browsers:				
Browser	Version			
Internet Explorer	7.0 and onward			
Firefox	3.0 and onward			
Safari (Mac only)	Safari (Mac only) 3.0 and onward			

Accessing Web Management UI Manually

- 1. Open a web browser window.
- At the address line input "http://Synology_Server_Name:5000/", where "Synology_Server_Name" should be replaced with the name you set up for *Synology DiskStation* during the setup process. If you choose **One-step Setup** during the setup process, the "Synology_Server_Name" will be "DiskStation", "CubeStation", or "RackStation".

3	Synolo;	gy Disk	Station	- DiskStation	ı - Mozi	illa Fire	fox
<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	History	<u>B</u> ookmarks	<u>T</u> ools	<u>H</u> elp	
Ø	- 0	- 6) 🛇	00	•	Ə [http://DiskStation:5000

- 3. Press Enter key on the keyboard.
- 4. Choose System administrator (admin).
- 5. Input password for admin.
- 6. Click Enter to access Web Management UI.

Managing Synology DiskStation

You can start managing *Synology DiskStation* in Web Management UI. *Synology DiskStation* Web Management UI provides distinctive and straightforward design

for easy management. You will find an online **Help** button at the upper right corner of every page of the Web Management UI. Click on the **Help** button for further information whenever you encounter any problem.

To help you further manage *Synology DiskStation*, resource monitor allows you to watch over the CPU usage, memory usage, network flow, and volume usage. With SNMP service, you can now monitor *Synology DiskStation* with network management software.

Connecting from Two Different Networks^{*}

Synology DiskStation supports dual LAN allowing you to connect to the network with two LAN cables at the same time, or to set the *Synology DiskStation* using two IP addresses under different subnets. With Link Aggregation enabled, trunking and network fault tolerances are supported. Please go to the **System** > **Network** page of the Web Management UI for setup.

Volume

You can combine hard drives on *Synology DiskStation* to create different types of volumes, and find the data protection level of your need. The *Synology DiskStation* provides you various volume types as follows:

Volume Type	Amount of composed hard drive	Functionality
Basic	1	A Basic (non-RAID) volume must be created with one hard drive as an independent unit. When creating a Basic volume, you can select only one hard drive at a time.
JBOD	≧2	JBOD is a collection of hard drives. The maximum capacity of a JBOD volume is the total capacity of all hard drives.
RAID 0	≧2	Combining multiple disks to build a volume, RAID 0 offers Striping, a process of dividing data into blocks and spreading the data blocks across several hard drives, but without safety measures.
RAID 1	2	With RAID 1, one of the composed disks is used for backup purposes. The content of disk A is mirrored to disk B to assure data integrity, so the actual available storage capacity equals to the capacity of one hard drive.
RAID 5	≧3	This configuration includes a backup option. It uses parity mode to store redundant data on space equal to the size of one disk for later data recovery. Therefore the actual available storage capacity equals to the capacity of n-1 hard drives.
RAID 5+Spare	≧4	RAID 5+Spare is a new management mechanism to secure the data. It requires at least four drives to establish a RAID 5+Spare volume, and one will act as a hot Spare drive to rebuild the failed drive of the volume automatically.
RAID 6	≧4	This volume type eliminates the risk of volume failure and provides extra data protection. It uses parity mode to store redundant data on space equal to the size of two disks for later data recovery. Therefore the actual available storage capacity equals to the capacity of n-2 hard drives.

^{*} Supported on specific models only. Please refer to the product Specification table.

Managing Volume^{*}

You can create, remove, and repair volumes. For the detailed description, please refer to Help on **Storage** > **Volume** page.

Cube Station	~	Home >> Storage >> Volume				
😚 Home 🛛 🜔 Start 🔹						
Information Status Cog Sout System Control System Sout Storage LDD Management		Volume	(1997)	塗 Change	🗙 Remove	
	E	Volume -	Type	Status	Completed	Capaci
		Volume 1	RAID 5	Normal	-	140.82
Volume S.M.A.R. I.						

Repairing Volume by Hot Swapping^{*}

Synology DiskStation provides hot swapping function. When you need to replace crashed disks in *Synology DiskStation*, you don't need to turn off the server. You can refer to the disk status on the management UI, or the front panel LED indicators to identify crashed disks, and directly pull out the hard drive tray to replace the crashed disk with a new one. Then follow the steps on management UI to repair the degraded volume after replacing the hard drive.

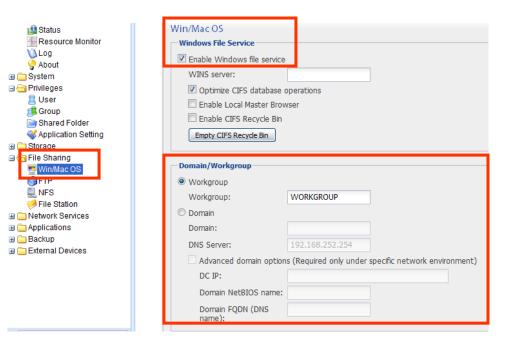
Joining Windows ADS Domain^{*}

You can add *Synology DiskStation* to Windows ADS domain and let the domain users access *Synology DiskStation*. *Synology DiskStation* supports Active Directory Service (ADS) domain. After adding *Synology DiskStation* to a Windows domain, you can go to the **Privileges** > **Shared Folder** page to assign the domain users' privileges of shared folders on the server. When domain users access *Synology DiskStation*, they only need to enter their domain account and password for authentication.

For the detailed description, please refer to Help on **File Sharing** > **Win/Mac OS** page.

^{*} Supported on specific models only. Please refer to the product Specification table.

Managing Synology DiskStation



Accessing Synology DiskStation via Telnet/SSH

To be able to access *Synology DiskStation* via Telnet/SSH, go to **Network Services** > **Terminal** and enable the terminal service.

Cube Station	~	Home >> Network Services >> Terminal
 Home Start ▼ System System System Storage File Sharing Win/Mac OS FTP NFS File Station Network Services Web Services Ez-Internet Terminal 	E	Terminal Terminal Service Options Use Terminal service to ogin and manage your system Carbon Enable SSH service Correct Reset OK Reset *www.synology.com

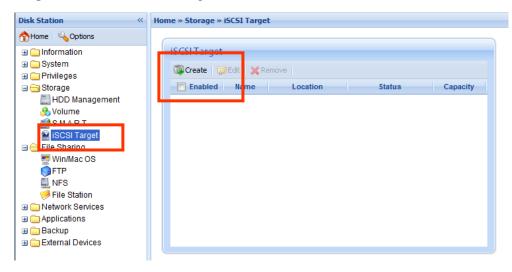
Accessing Synology DiskStation via NFS

With the built-in NFS option, the administrator can quickly enable NFS and set up privileges on the UI with only a few clicks. Go to **File Sharing** > **NFS** and check the box to enable this function. Go to **Privileges** > **Shared Folder** to setup the NFS privileges.

Cube Station	**	Home >> File Sharing >> NFS
Home Start *		NFS NFS Service Enable this function to allow users to access the server via NFS protocol. Enable NFS
☐ ☐ Network Services		OK Reset

iSCSI Target*

You can designate portion of your volume space to be an iSCSI Target, which will allow clients to access the space like a local disk. Go to **Storage** > **iSCSI Target** and create an iSCSI target.



Protecting Synology DiskStation from Unauthorized Login

Built-in Firewall

The built-in firewall can prevent unauthorized logins and control which services can be accessed. Go to **Network Services** > **Firewall** to enable and create firewall rules. You can choose to allow or deny some or all IP addresses from accessing some or all network ports.

Disk Station «	Home » Network Services » Firewall
Disk Station ≪	Home » Network Services » Firewall Firewall Coreate Coreate Coreate Coreate Coreate
 File Sharing File Sharing Web Services DDNS Ferminat Firewall SNMP Auto Block Applications Backup External Devices 	Enabled Ports Protocol
	If no rules are matched: O Allow access O Deny access You can drag and drop the rules to rearrange the order. Rules at the top have higher p

* Supported on specific models only. Please refer to the product Specification table.

Auto Block

Auto Block is another method to block unauthorized logins via SSH, Telnet, rsync, FTP, mobile devices, File Station, and management UI. Go to **Network Services** > **Auto Block** to enable and set up the service so that IP addresses exceeding the specified number of failed login within a time period will be blocked.

Disk Station «	Home » Network Services » Auto Block
Ame Options	
Information System System System System Strage Storage Storage Observices DDNS Terminal Firewall SYMMP Auto Block Applications Deckup External Devices	Auto Block Enable this option to block IP addresses with too many failed login attempts. Failed login via SSH, Telnet, rsync, FTP, Phone, File Station, and management UI will all count towards login attempts. Enable auto block An IP address will be blocked if it reaches the number of failed period entered below. Login attempts: S Within (minutes): S Enable email notification An email notification will be sent when any IP is blocked. Block List

Resetting Administrator Password

Pressing the **RESET** button and holding it for about 4 seconds or until you heard a beep sound. This will restore IP, DNS, and the password for the admin account to default value. The default password of the admin account is blank.

Reinstalling Synology DiskStation

If for any reason you have to reinstall the *Synology DiskStation*, you can press the **RESET** button on the back panel twice, and the *Synology DiskStation* will be reinstalled. The data saved on the *Synology DiskStation* will not be erased during the reinstallation. However, for security's reason, we strongly recommend that you back up the data on the server.

To reinstall the server:

- 1. Press the **RESET** button and hold it for about 4 seconds. Release the button when the *Synology DiskStation* emits a beep sound.
- 2. Within the next 10 seconds, press the **RESET** button and hold it for about 4 seconds again. Release the button when the *Synology DiskStation* emits a beep sound.
- 3. Run Synology Assistant, and set up the Synology DiskStation again.

Accessing Synology DiskStation Data

File sharing service is one of *Synology DiskStation*'s major functions. Administrator can setup access rights for users to access shared folders.

Shared Folders

System Built-in

Below are the system built-in shared folders.

Name	Description
public	The public shared folder will be created automatically after the first time you set up Synology 1-bay models.
web	The shared folder web is for storing web pages. When Web Station is enabled, the "web" shared folder will be created automatically. You can upload web pages to the web shared folder to build your website. For detailed information, please refer to the <i>Extra Features</i> > <i>Web Station</i> section.
photo	The shared folder photo is for storing images and videos you want to share on Photo Station 3. It will be created automatically when Photo Station or DLNA/UPnP Media Server is enabled. For detailed information, please refer to descriptions of Photo Station 3 and Media Server.
music	You can store music files in the music shared folder. When iTunes Service is enabled, you can browse the music files on iTunes. For more details on the iTunes Service, refer to the <i>Extra</i> <i>Features</i> > <i>iTunes Service</i> section. In addition, when DLNA/UPnP Media Server is enabled, the music can be shared through a DLNA/UPnP device. For detailed information, please refer to descriptions of Media Server.
video	Video files in the video shared folder can be browsed through DLNA/UPnP DMA when Media Server is enabled. For detailed information, please refer to descriptions of Media Server.
surveillance	The shared folder surveillance is for storing the video files recorded by Surveillance Station 3. It will be created automatically when Surveillance Station 3 is enabled. This shared folder is read-only and can only be accessed with the admin account. For more details, please refer to the <i>Extra Features > Surveillance Station 3</i> section.
home	The system will create a home folder for each user once User Home is enabled. It provides a private space for each user to store data where no other users can access.
homes	Once User Home is enabled, admin will be able to see and manage all users' home folders which are under homes folder.

Name	Description
NetBackup	The shared folder NetBackup is for saving backed up files using Network Backup.
usbshare	After you connect external USB HDD to <i>Synology DiskStation</i> 's USB port, system will automatically create a shared folder with the prefix usbshare . Refer to <i>Expanding Storage Capacity</i> > <i>External HDD</i> section for details.
satashare	After you connect external SATA HDD to Synology DiskStation's eSATA port, system will automatically create a shared folder with the prefix satashare . Refer to Expanding Storage Capacity > External HDD section for details.

Administrator-Created

Apart from the above system built-in shared folders, Administrator can create shared folders on the page **Privileges** > **Shared Folder** of the Web Management UI. Shared folders created by Administrator can be deleted or renamed at any time.

Cube Station	Home >> Privileges >> Shared	Folder	
🟫 Home 🛛 👂 Start 🔹			
 ᠃ Information ᠃ System ᠃ Privileges 	Shared Folder	Delete 🛯 Delete	NFS Privileges
Sroup	Name 🔺	Descriptic Status	Volume
Shared Folder	NetBackup	System de1 -	Volume 1
Application Setting	homes	user home -	Volume 1

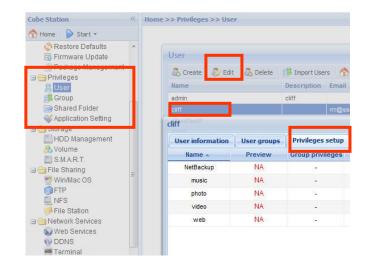
Setting Privileges

For security reasons, Administrator can go to the **Privileges** > **Shared Folder** page of the Web Management UI and assign user privileges for accessing the shared folders.

Cube Station	Home >> Privileges >> Shared Folder			
😚 Home 🛛 👂 Start 🔹				
 	Shared Folder		1	1
2 User	🛛 🔂 Create 🛛 🔀 Edit 🛛 🔂 Delete	🐉 Privileges Setup	NFS Privileges	Sea
🛢 Group	Name 🔺	Descriptic Status	Volume	
Shared Folder	NetBackup	System det -	Volume 1	
Application Settine	homes	user home -	Volume 1	

You can also setup each user's privileges or accessing shared folders by going to **Privileges** > **User** page. Choose the user account and click **Edit**, and then go to **Privileges setup** to setup the user's privileges. For the detailed description, please refer to Help on **Privileges** > **User**.

Accessing Synology DiskStation Data

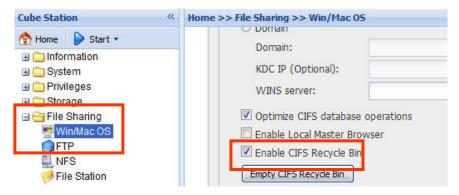


Using Network Recycle Bin

When users delete files in the shared folders via the SMB/CIFS protocol (ex: on Windows), the deleted files will be moved into the automatically-created folder **#recycle** in the same shared folder to avoid files being unintentionally deleted.

To enable the recycle bins, go to the page **Network Services** > **Win/Mac OS**, and check the **Enable CIFS Recycle Bin** option.

To permanently delete files in a shared folder, just delete the **#recycle** folder; to permanently delete files in all shared folders, click the **Empty CIFS Recycle Bin** button.



Setting Encoding

Synology DiskStation uses Unicode to avoid file inaccessibility between users who use different languages. For users without Unicode support on their PC, Administrator can set the Codepage of the files on the **System > Language** page of the Web Management UI to overcome the problem.

Cube Station 《	Home >> System >> Language	je	
Cube Station	Home >> System >> Language Language Select the display lang		
 ☐ FFF0E ⑦ Time ④ Notification ① Power ③ Restore Defaults ⑤ Firmware Update 	Display language: Email Language Select the language fo	English or email notification.	~
 Package Management Privileges Storage File Sharing Network Services 	Email language: Codepage	English for non-Unicode filename conversion.	~
	Codepage:	U.S. English (Code Page 437)	~

Accessing Shared Folders

Within the Intranet

Windows User

Windows users can access *Synology DiskStation*'s shared folders by using Setup Utility to map Network Drive

Synology Assistant, which is included in the Installation CD, not only helps Administrator manage *Synology DiskStation*, but also provides users with the following steps to map Network Drive:

- 1. Run Synology Assistant.
- 2. Choose the server to map network drive.
- 3. Click on the **Map Drive** button.

mestatus System status MAC address Version Model Serial no Manual System is ready. 00:11:32:04:0C:EA 2.2-0922 DS207+ 89E1N0150
Manual System is ready. 00:11:32:04:0C:EA 2.2-0922 DS207+ 89E1N0150

4. Follow the on-screen steps to finish the setup.

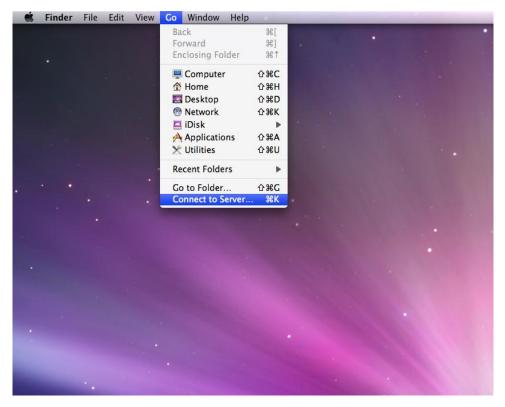
Map Network Dri	ive		
\times		help you to connect a shared folder and the connection so that you can access].	
$\langle \rangle$	Specify the shared fold	der that you want to connect to:	
	W192.168.104.111VA		
	\\192.168.104.111\mu		
	\\192.168.104.111\pho \\192.168.104.111\sun		autoutoutoutout
	\\192.168.104.111\suk		
	\\192.168.104.111\web		
	2		

5. Upon completion, user can access the mapped shared folder in Windows Explorer.

😂 Z: \			
Address 😹 Z:\			💌 🔁 Go 🛛 🦧
🕜 Back 🔹 🌍 👻 🏂 🔎 Search 🜔	Folders 🗙 🛄 🗸		File Edit V 🌺
Folders	× 🎦		
 Pesktop ● ● My Documents ● ● My Computer ● ● My Computer ● ● Style Computer ● ● Cocal Disk (E:) ● ● Local Disk (E:) ● ● Russian Localization ● ● Alsk 	20060625看 樺球		
1 objects		0 bytes	😜 Internet

Mac User

Mac user can use **Go** > **Connect to Server** and type "smb://server_IP" or "afp://server_IP" to connect to a *Synology DiskStation* and access the shared folder on the server, Connecting through "smb://" is suggested for better performance.



Linux User

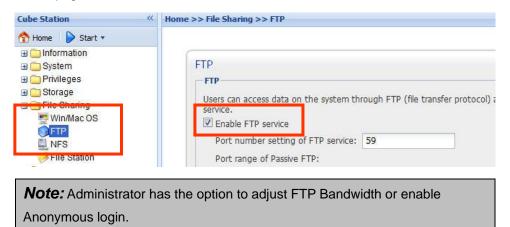
Linux users can mount the shared folders for accessing. Mount path can be found under **Privileges** > **Shared Folder** > **NFS Privileges** of the Web Management UI. Before mounting the shared folders, please make sure the NFS service is enabled.

Cube Station «	Home >> Privileges >> Shared Folder		
Cube Station Start *	Home >> Privileges >> Shared Folder Shared Folder Create Content of the privileges of NetBackup NFS Privileges Create Content of Delete Client	Privilege	Search >
 Privileges User Group Shared Folder Application Setting Storage File Sharing Network Services Applications Backup 	Mount path;/volume 1/NetBackup		

From the Internet

Through FTP

Synology DiskStation provides FTP service. Administrator can enable FTP service on the **File Sharing** > **FTP** page of the Web Management UI. Users can thus access data in Synology DiskStation by FTP Protocol. Synology DiskStation supports secure FTP by default when administrator enables the FTP service. To prevent data from being accessed while transferring, users can also use **FTP over SSL/TLS** on the FTP client to make the data more secure. For detailed information on using FTP and its limitation, please refer to Help on **File Sharing** > **FTP** page.



Through File Station 2

Synology File Station 2 is a web-based file management tool. Administrator can enable File Station 2 service on the **File Sharing** > **File Station** page of the Web Management UI. Users can thus access or manage data stored on *Synology DiskStation* with browsers. On File Station 2, you can drag-n-drop to move files among folders, and use the right-click action to manage the files. Also, you can upload or download multiple files at the same time. Furthermore, authorized users can assign the privileges of other users to access the folders, sub-folders, and files. For detailed function descriptions, please refer to the online Help in the File Station 2 user interface.

Cube Station	Home >> File Sharing >> File Station		
Home Start	File Station File Station File Station File Station 2 Enable File Station 2 to access and manage f Customize Login at: http://192.168.103.157:8889/		

From a Mobile Device

Mobile device support has been added to allow you to use iPhone OS 2.2.1 onward or Windows Mobile® 6.0 (Internet Explorer® Mobile or Opera® 9.0 and onward) to browse files stored in Files Station and Photo Station.

Backup Solutions

Synology DiskStation provides the following server backup solutions:

- 1. By using **Local Backup**, Administrator can back up *Synology DiskStation*'s data to external USB or SATA HDD.
- 2. By using **Network Backup**, Administrator can back up *Synology DiskStation*'s data to another *Synology DiskStation* or an rsync-compatible server.

Synology DiskStation provides the following personal data backup solutions:

- 3. By installing Synology Data Replicator 3 software on the client PC, Windows users can back up data from PC to *Synology DiskStation*.
- 4. By using Time Machine on Mac OS X, Mac users can back up data from their desktop to assigned shared folder on *Synology DiskStation.*

Synology DiskStation also allows you to back up system settings.

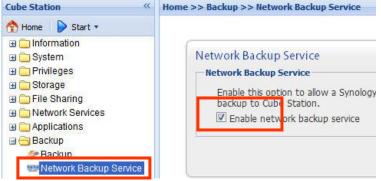
Local Backup and Network Backup

Please follow the below steps to perform Local and Network Backup:

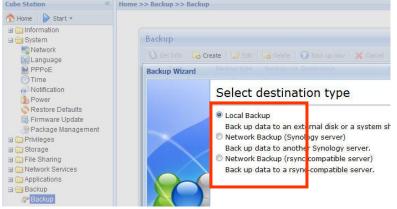
- 1. Connect an external USB HDD or SATA HDD to the corresponding port on *Synology DiskStation*.
- 2. Go to the page External Devices > USB Disk or External Devices > eSATA Disk of the Web Management UI, and format the HDD.

Cube Station	Home >> External Devices >> USB Disk			
🟫 Home 🛛 🜔 Start 🔹				
	USB Disk			
Privileges Storage	🚺 Get Info 🛛 📓 Format 🛛 📝 Eject			
∃ ☐ File Sharing	USB disk 🔺	Shared folder	File system type	
🗉 🧰 Network Services	USB Disk 1	usbshare1	FAT	
Applications Applications Seckup Seckup Seckup Seckup USB Disk				

3. If you want to do network backup to another *Synology DiskStation*, make sure the Network Backup Service is enabled on the backup destination.



 Go to Backup > Backup to set up your backup task, When creating a task, you could choose Local Backup, or perform Network Backup to another Synology DiskStation or rysnc-compatible server.



Backing up Personal Data

Windows Users

Windows users can install Synology Data Replicator 3 backup software which can be found on the installation CD. They can back up client PC data to *Synology DiskStation* to maintain a copy of data whenever needed.

Using Synology Data Replicator 3, users can:

- 1. Monitor selected folders on client PC and perform real-time backup when any modification to the file is made.
- 2. Adjust backup versions and restore points.
- 3. Restore backup data on *Synology DiskStation* to client PC at user's preference.

Before starting

Before using Synology Data Replicator 3, please ensure:

- 1. Client PC and *Synology DiskStation* use the same encoding for backup to perform adequately.
- 2. Synology Data Replicator 3 is the next generation of Synology Data Replicator. It can only restore the data on *Synology DiskStation* that was

backed up after Data Replicator 3 was installed. If users have backed up data on *Synology DiskStation* using Synology Data Replicator, we recommend restoring data on *Synology DiskStation* to PC first before using Synology Data Replicator 3.

Minimum System Requirement

- 1. Free HDD Space: 5MB
- 2. Operating System: Windows 2000 and onward
- 3. Best Screen Resolution: 1024 x 768 and above
- 4. Microsoft Networking over TCP/IP enabled and has network connection with *Synology DiskStation*.

Installing Synology Data Replicator 3

Insert Installation CD into Windows user CD/DVD-Rom drive. Click on **Synology Data Replicator 3**, and follow on-screen instructions.

Synology Installation CD	
Synology Installation	on
Quick Installation Guide	Install this program to backup PC data to Synology server.
Out with a Owned and Owned	
Set up the Synology Server	
Synology Assistant	
Data Replicator 3	
Download Redirector	
User's Guide	

Using Synology Data Replicator 3

After installation, double click on the software icon to execute the program. Click on **Help** for detail description.



Mac OS X User

Mac users can use Time Machine to backup personal data to *Synology DiskStation* by enabling AppleTalk and selecting a destination shared folder on the **File Sharing** > **Win/Mac OS**.

Backing up Synology DiskStation Settings

There are two options for you to back up *Synology DiskStation*'s "User", "Group", and "Shared Folder" settings for easy maintenance and restoration.

From Synology DiskStation to PC Client

Go to the page **Backup** > **Configuration Backup** of the Web Management UI to back up settings from *Synology DiskStation* to PC Client.

Configuration Backup Options Back up system configuration Back up the user, group, and share Restore system configuration Overwrite conflicted settings Select a backup file:	d folder settings to a .dss file. Browse…
	 Back up system configuration Back up the user, group, and share Restore system configuration Overwrite conflicted settings

From Synology DiskStation to another Synology DiskStation

The data backed up to another *Synology DiskStation* or an rsync-compatible server using "Network Backup" automatically includes the "User", "Group", "Shared Folder" settings. When you recover the data, you can choose if you want to recover these settings.

Sharing USB Printers

Synology DiskStation helps users to share up to 2 USB Printers. Please refer to Help on the **External Devices** > **USB Printer** page of the Web Management UI for the detailed settings on different platforms.

Synology .	is	File	Station Audio Station	Surveillance Station 📁 Downle
Cube Station	«	Home >> External Device		Welcome admin Deskt
Time Notification Power Restore Defaults	*	USB Printer	n Manufacturer	Product
 Firmware Update Package Management Privileges Storage File Sharing Network Services Applications Backup External Devices 	m	usbprinter	Seiko Epson Corp.	Printer
USB Disk				

More Features

Management

User Home

When the **User Home** function is enabled, the system will automatically create a **home** folder for each user account, so that users can store data to their own "home" folder.

Cube Station 《	Home >> Privileges >> User
Home Start •	User
Group Charact Folder Charact Folder Character File Sharing File Sharing Character Applications Character Charact	User Home User Home Enable user home service
	Cancel

Applications Privilege Setting

Admin can assign privileges to other users for accessing applications at **Privileges > Application Setting** page.

Cube Station	lome >> Privileges >> Ap	plication Setting	
🕎 Home 🛛 👂 Start 🔻			
Information System Privileges User Group	Application Sett	Search	× Audio Station
Shared Folder	cliff 🛛		
Setting Application Setting	dfasdfas 🖓		
∃ _ Storage ∃ _ File Sharing	dfdfd 📝		
Contract Services	edward 📝		
g C Applications g Backup g External Devices % USB Disk g USB Printer g USB VISE	fasdfew:		S
	fd 📝		S
	qerqewn 📝	M	S
	qwerqeq 📝		
	reqwrew 😽		S
	rgewrgei 📝	S	S
	rqewrqw 📝	S	S
	•		III.

Quick Search Box

When the **Quick Search Box** is enabled, it will appear at the bottom of the Panel List. The "search while you type" feature helps you to quickly find the applications you want to manage by entering key words.



Notification

Email Notification

Administrator can enter email address and SMTP server information on the page **System** > **Notification**. *Synology DiskStation* will send email to the address whenever an important event occurs to notify Administrator.

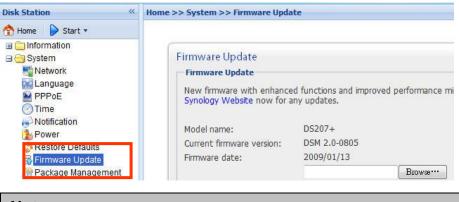
Disk Station 《	Home >> System >> Notification		
 ☆ Home Start ▼ ᠃ Information ᠃ System ᠃ Network … Language … PPPoE … Time … Notification 	Notification	n I be sent when an error occurs.	
🏂 Power 💸 Restore Defaul <mark>i</mark> s	Secure connection ((SSL/TLS) is required	

SMS Notification

If you would like to be notified by SMS, enable SMS notifications and enter information for your preferred SMS service provider.

Firmware Update

To keep your *Synology DiskStation* up to date, Administrator can go to **System** > **Firmware Update** page to upgrade firmware.



Note:

Normally, upgrading the firmware of the Synology DiskStation will not affect data on the Synology DiskStation. However, to ensure data security, it is recommended that you back up your data before update.

Audio Station

By connecting a set of verified USB speakers and the Synology Remote receptor to the USB ports on the *Synology DiskStation*, users will be able to enjoy the music stored on the *Synology DiskStation* with the music player in the Audio Station web interface, or by the direction-free remote control. Users can also stream music stored on *Synology DiskStation* to the client PC and have the music delivered by built-in speakers. Besides music on the *Synology DiskStation*, users can listen to the Internet radio stations, or play music from the connected iPod as well. A built-in playlist "Random100" will randomly choose and play 100 songs each time this function is selected. For detailed function descriptions, please refer to the online Help in the Audio Station web interface. DS audio is also available for download on Apple's App Store to stream the music in Audio Station with your iPhone/iPod touch.

Audio Station		冬 Managemen	t 🛛 🎺 File Station	Surveillance Station	Cownload Station
Audio Station					
	Player Library Internet Radio	Streaming M	ode >>		
	USB speaker not detected. Ple	ase connect USB speaker to the system.			
	Music Radio IPod				
	00:00	STEREO	MONO		
	KBPS: KHZ:	Repeat All Repeat One	Shuffle		
		0 @ ⊗ +∘			
	Playlist Random100	Kefresh Album Genre	Duration		
	I IDE AITUST	Album Genre	Duration		
			_		
	H A Page 1 of 1 2 2 0		No data		

iTunes Service

When **iTunes Service** is enabled, users can play music files stored on *Synology DiskStation* with any iTunes clients on the same subnet. For the detailed information and its limitation, please refer to Help on **Applications** > **iTunes** page of the Web Management UI.

Cube Station «	Home >> Applications >> iTunes	5
Home Start	iTunes iTunes Enable iTunes service to music in the "music" sha I Enable iTunes Service Shared name: Require password	e Synology

Media Server

Using DLNA/UPnP media server, you can browse the multimedia files stored on the server via a DLNA/UPnP DMA (Digital Media Adapter). After enabling media server on the **Applications** > **Media Server** page, place the multimedia files in one of the following shared folders: photo, video, or music. You can customize how the files will be organized and displayed on the DMA menu or insert album covers for music files without embedded images. Furthermore, MIME types and transcoders can be enabled to enhance DMA compatibility.

	Media Server			
🗄 🧰 Privileges	- Media Server			
🗄 🧰 Storage	Enable DLNA/UPnP medi	a server		
🗄 🪞 File Sharing			se multimedia files with a DLNA/UP	'nΡ
Hetwork Services	DMA.	0.000.000		
Applications	DMA menu language:	English		~
Media Server	DMA menu style:	Simple s	tyle	~
Audio Station	Customize			
Photo Station				

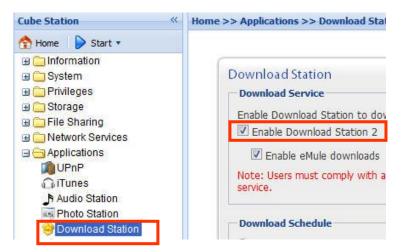
Download Station 2

Synology DiskStation can download files from the Internet through BitTorrent, FTP, HTTP, NZB and eMule. BitTorrent partial file download is also available. E-mail notification upon the download tasks' completion is optional. PC users and Mac users can either install Download Redirector or log in to the **Download Station** page on the Web Management UI to add download tasks and manage the download queue.

Before you start adding download tasks, you should enable Download Station on the *Synology DiskStation*.

Enabling Download Station 2

Go to the **Applications** > **Download Station** page.



Installing Download Redirector

Insert Installation CD into the CD/DVD-Rom drive. Click on **Download Redirector**, and follow on-screen instructions to complete installation.

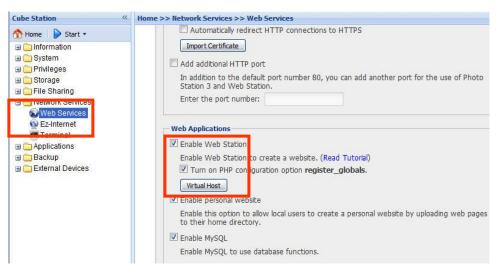
For the detailed description of Download Redirector, please refer to Help on Download Redirector program window.

Web Station

Personal or corporate website can be easily set up using **Web Station**. By integrating with PHP and MySQL, users can also set up online shop. PHP support is turned on by default, and MySQL needs to be enabled manually. With the Web Station enabled, the Virtual Host support allows you to host up to 30 websites on one *Synology DiskStation*.

Enabling Web Station and MySQL

Go to the Network Services > Web Services page.



Enabling Virtual Host

Go to the Network Services > Web Services page, and click on Virtual Host.

Web Station's detail description

Please click on the Read Tutorial link next to Enable Web Station.

Photo Station 3

Photo Station 3 is the new online album function integrating a blogging system. After uploading a folder containing photos and videos to the **photo** shared folder, Photo Station 3 will start to create thumbnails automatically. Administrator can then sign in to Photo Station 3 to manage the album and create blogs. Administrator can customize Photo Station 3 background and theme, and choose the preferred language. Photo Station 3 also provides users with the search function. By entering key words, users can find the relevant photos, videos, and files. You can also click on the arrow for advanced search.

Photo Station 3 can be accessed on a mobile device with iPhone OS 2.2.1 onward or Windows Mobile® 6.0 (Internet Explorer® Mobile or Opera® 9.0 and onward). You can also download DS photo on Apple's App Store to upload photos stored on their iPhone/iPod Touch to a *Synology DiskStation*.

Enabling Photo Station 3

Go to the **Applications** > **Photo Station** page.

Cube Station «	Home >> Applications >> Photo Station
Home Start	Photo Station Photo Station Photo Station Enable Photo Station to share photos and video clips in the "photo" shared folder, a publish your blog. To manage Photo Station, go to the admin area of Photo Station. (Read Tutorial) Set new albums as public Re-index

Photo Station 3's detail description

Please click on Read Tutorial link next to Enable Photo Station 3.

Surveillance Station 3

By using Surveillance Station 3, you can monitor the live image of various IP cameras attached on the network, customize video recording options, and choose among Continuous Recording, Motion Detection Recording, and Alarm Recording modes. When playing back the recording events, you can fast forward, slow down, or play up to 4 channels simultaneously. Both M-JPEG video format and MPEG4 format are supported; based on the IP camera's ability, megapixel video live-view and recording can also be supported. If you record the event with MPEG4 format and the camera supports audio recording an event. Centralized management allows you to monitor the live-view of IP cameras installed on multiple DiskStations. SMS notification sends you a notification message when the events you have selected occur.

The supported camera number varies from different models for the best performance. For the supported camera number, please refer to the product specification table.

Enabling Surveillance Station 3

Go to the **Applications** > **Surveillance Station** page.

Home >> Applications	>> Surveillance S	station	
Surveillance Surveillance Enable Surveil Enable Sur MPEG4 stra @ Use the	Station Service lance Station to r veillance Station saming port: default port rang	ecord videos le (55736-55 nge:	
	Surveillance : Surveillance : Enable Surveil I Enable Surveil Enable Surveil Enable Surveil MPEG4 stra © Use the © Use the	Surveillance Station Surveillance Service Enable Surveillance Station to r Enable Surveillance Station MPEG4 streaming port: Use the default port rang Use the following port rang	Surveillance Station Surveillance Service Enable Surveillance Station to record videos Enable Surveillance Station MPEG4 streaming port: Use the default port range (55736-55 Use the following port range:

Surveillance Station 3's detailed description

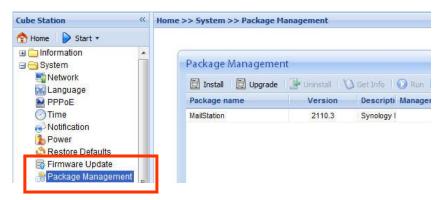
For detailed function descriptions, please click **Help** on the Surveillance Station 3 Web Management UI. Surveillance Station requires IE 7.0 browser.

Mail Station

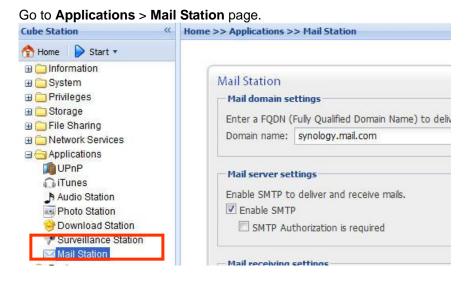
With the Mail Station add-on, you can turn your *Synology DiskStation* into a mail server to receive and deliver e-mails.

Mail Station Installation

Go to the **System** > **Package Management** page and install the Mail Station package which is available on Synology website. For detailed instructions please visit Synology website.



Mail Station Setting



Mail Station's detailed description

For detailed function descriptions, please click **Help** on the **Applications** > **Mail Station** page.

USBCopy^{*}

When a USB Device is connected to the USB port at the front panel, by pressing the USBCopy button all the data in the USB Device will be copied to *Synology DiskStation*'s internal HDD.

Setting USBCopy Target Location

You can setup USBCopy target location on the **External Devices** > **USBCopy** page of the Web Management UI, data will be copied to the target location when you press the USBCopy button.

Disk Station «	Home >> External Devices >> USBCo	ру
 Home Start Start System System Storage Storage File Sharing Network Services Applications Backup External Devices USB Disk eSATA disk USB Printer 	USBCopy USBCopy	data from the USB device to the Dis
 File Sharing Network Services Applications Backup External Devices USB Disk eSATA disk 	Copy button on the front pa	nel. public music NetBackup photo public

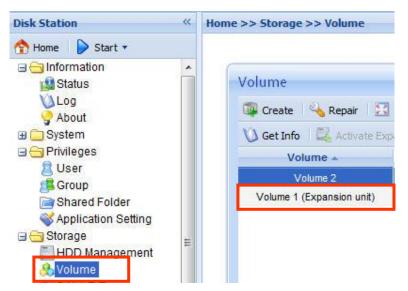
^{*} Supported on specific models only. Please refer to the product Specification table.

Expanding Storage Capacity

Administrator can expand the storage capacity by connecting external hard drives, replacing the internal hard drive with a larger one, or adding a hard drive to the volume.

With DX5/RX4^{*}

You can expand the storage capacity of your *Synology DiskStation* by connecting a DX5/RX4. For detailed function descriptions, please click **Help** on the Volume page.



With External HDD

External USB HDD

When connecting an external USB HDD to *Synology DiskStation*'s USB port, **usbshare1** shared folder will be created automatically. Upon disconnecting external USB HDD, the shared folder will be removed. When more than 1 external USB HDD is connected, **usbshare2**, **usbshare3** will be created accordingly.

To eject or format external USB HDD, go to the page **External Devices** > **USB Disk** of the Web Management UI.

^{*} Supported on specific models only. Please refer to <u>www.synology.com</u>.

Cube Station «	Home >> External Devices >> USB Disk
Cube Station ** The Start The Start Cube Station The System The System The System The Storage The Sharing The Sha	Home >> External Devices >> USB Disk USB Disk Get Info Get Format Figure Eject USB disk Shared folder USB Disk 1 USB black 1
⊞	

External SATA HDD^{*}

When connecting an external SATA HDD to *Synology DiskStation*'s eSATA port, **satashare** shared folder will be created automatically. Upon disconnecting External SATA HDD, shared folder will be removed.

To eject or format external SATA HDD, go to the page **External Devices** > **eSATA Disk** of the Web Management UI.

Disk Station 《	Home >> External Devices >> e	SATA disk	
Home Start Start System Privileges Storage File Sharing Network Services Applications Backup External Devices USB Disk USB Disk USB Printer USB Copy UPS	eSATA disk eSATA disk eSATA disk: Shared folder: File system type: Used/Total Size: Status:	External SATA Disk satashare Native 0.30/916.89 GB Normal	Eject Format

Replacing Larger Internal HDD

When the internal HDD storage runs out, Administrator can follow the steps below to replace a larger HDD but keep the original data:

For one-bay models^{*}

- 1. Turn off the Synology DiskStation.
- 2. Replace the internal hard drive with a larger one.
- 3. Turn on the Synology DiskStation.
- 4. Reinstall the system.
- 5. Connect the replaced hard drive to the USB or eSATA port.
- 6. Copy the data from the replaced hard drive to the new hard drive.

^{*} Supported on specific models only. Please refer to the product Specification table.

7. Remove the replaced hard drive.

For Basic or RAID 0 volume on two and more bays models^{*}

- 1. Back up all data stored on the Synology DiskStation.
- 2. Turn off the Synology DiskStation.
- 3. Replace the internal hard drives with larger ones.
- 4. Turn on the Synology DiskStation
- 5. Reinstall the system.
- 6. Copy the backed up data to the new volume.

For RAID 1 volume on two and more bays models*

- 1. Turn off the Synology DiskStation.
- 2. Replace the first internal hard drive with a larger hard drive.
- 3. Turn on the Synology DiskStation and rebuild the volume.
- 4. Repeat step 1 to 3 until all internal hard drives are replaced with larger hard drives.
- 5. Click the **Expand** button to expand the volume size.

Note:

For hot-swappable models, you can perform the above procedures when the model is powered on.

For RAID 5 or RAID 6 volume on four and more bays models^{*}

- 1. Turn off the Synology DiskStation.
- 2. Replace the first internal hard drive with a larger hard drive.
- 3. Turn on the Synology DiskStation and rebuild the volume.
- 4. Repeat step 1 to 3 until all internal hard drives are replaced with larger hard drives.
- 5. Click the **Expand** button to expand the volume size.

Note:

For hot-swappable models, you can perform the above procedures when the model is powered on.

^{*} Supported on specific models only. Please refer to the product Specification table.

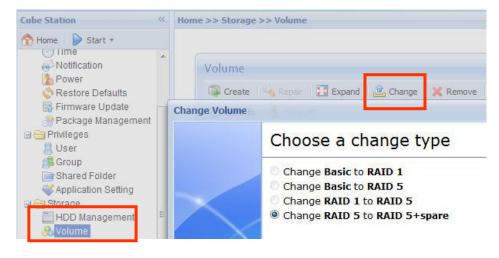
Adding a HDD to a RAID 5/RAID 6 Volume^{*}

You can expand the storage capacity of the RAID 5/RAID 6 volume by adding a Spare HDD to the RAID 5/RAID 6 volume. Please refer to the online Help on the **Storage** > **Volume** page of the Web Management UI for detailed instructions.

Change Volume Type

If you have created a Basic, RAID 1 or RAID 5 volume, you could add a new drive to the *Synology DiskStation*, and then click "Change" on the Volume page to change the volume type. You have following options:

- 1. Change Basic to RAID 1
- 2. Change Basic to RAID 5
- 3. Change RAID 1 to RAID 5
- 4. Change RAID 5 to RAID 5+Spare



^{*} Supported on specific models only. Please refer to the product Specification table.

Troubleshooting

For any questions about managing your *Synology DiskStation*, please refer to the "Help" button at every page of the Web Management UI. For any questions other than that, please visit Synology Inc. website <u>www.synology.com</u> for further assistance.

Appendix

Recommended Peripherals

For recommended peripheral models, including hard drive, USB printer, DMA, and UPS, please visit www.synology.com.

Recommended NTP Server

The main purpose of Network Time Protocol (NTP) is for synchronizing clocks of computer system over data network. We have provided a few recommended NTP servers. For more information about NTP Server, please visit http://www.eecis.udel.edu/~mills/ntp/servers.html

Below are few recommended NTP servers:

- 1. time.apple.com
- 2. time.asia.apple.com
- 3. time.euro.apple.com
- 4. time.nist.gov
- 5. time.windows.com

For more information, please refer to: http://ntp.isc.org/bin/view/Servers/WebHome