Synology®

Expansion Unit DX517

Hardware Installation Guide

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Before You Start

Thank you for purchasing this Synology product! Before setting up your new expansion unit, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your expansion unit.

Note: All images below are for illustrative purposes only, and may differ from the actual product.

Package Contents

Main unit x 1	AC power cord x 1
	Screws for 2.5" drives x 24
Expansion cable x 1	**Drive tray key x 2**

Expansion Unit at a Glance

No.	Article Name	Location	Description
1	LED Indicator	Front	Displays the status of internal drives and the system. For more information, please see **Appedix B: LED Indicator Table.**
2	Power Button	Front	1. Press to power on the expansion unit. 2. Press and hold to shut down. **Note:** The expansion unit will be turned on or off automatically when the linked DiskStation powers on or off. However, the POWER button has no power-off function when volume is created to prevent accidental volume damage.
3	Drive Tray Lock	Front	Lock or unlock drive trays.
4	Drive Tray	Front	Install drives (hard disk drives or solid state drives) here.
5	Power Port	Back	Connect the AC power cord here.
6	Expansion Port	Back	Connect Synology DiskStation here. For the list of supported models, please see the **Appedix A: Specifications**.
7	Fan	Back	Disposes of excess heat and cools the expansion unit. If the fan malfunctions, the ALERT LED indicator will show a blinking red light.

Safety Instructions

		Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.
		Place the product right side up at all times.
		Do not place near any liquids.
		Before cleaning, unplug the power cord. Wipe with damp paper towels. Do not use chemical or aerosol cleaners.
		To prevent the unit from falling over, do not place on carts or any unstable surfaces.
		The power cord must plug in to the correct supply voltage. Make sure that the supplied AC voltage is correct and stable.
		To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.
		Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries appropriately.

Hardware Setup

Tools and Parts for Drive Installation

- A screwdriver
- At least one 3.5" or 2.5" SATA drive (please visit **www.synology.com** for compatible drive models.)

Warning: If you install a drive that contains data, the system will format the drive and erase all existing data. Please back up any important data before installation.

Install Drives

1 Press the lower part of the drive tray to pop out the handle.

2 Pull the drive tray handle in the direction as indicated below to remove the drive tray.

3 Load drives in the drive trays:

- **For 3.5" drives:** Remove the fastening panels from the sides of the drive tray. Place the drive in the drive tray. Then insert the fastening panels to secure the drive in place.

- **For 2.5" drives:** Remove the fastening panels from the sides of the drive tray and store them in a safe place. Place the drive in the blue area (shown below) of the drive tray. Turn the tray upside down and tighten the screws to secure the drive in place.
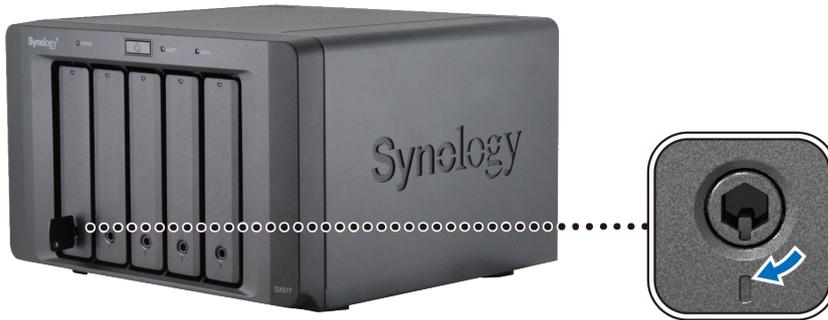

4 Insert the loaded drive tray into the empty drive bay.

Note: Make sure the tray is pushed in all the way. Otherwise, the drive might not be able to function properly.

5 Press the handle in flush with the front panel to hold the drive tray in place.

6 Insert the drive tray key into the drive tray lock, turn the key clockwise to lock the handle of the drive tray, and then remove the key.

7 Repeat the steps above to assemble the other drives you have prepared.

8 Drives are numbered as shown below.

Note: If you want to create a RAID volume, we recommend all installed drives be the same size in order to optimize drive capacity usage.

Connect with Synology DiskStation

1 Connect one end of the power cord to the power port of the expansion unit, and the other to the power outlet.

2 Connect the expansion cable to the expansion ports of DX517 and Synology DiskStation:

Expansion Port

After the connection is complete, DX517 will be turned on or off automatically when the connected DiskStation powers on or off.

Important: Do not remove the expansion cable while the host device is still powered on. Doing so may result in data loss.
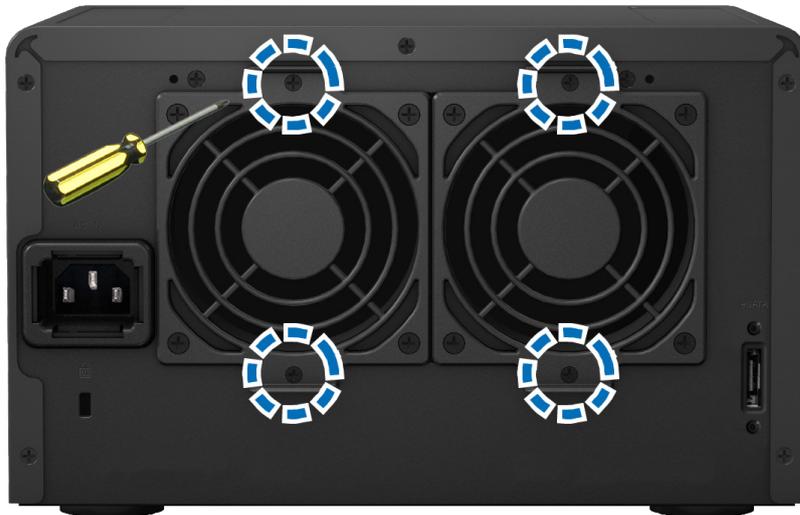
Replace System Fan

The ALERT LED indicator of your DX517 will be static orange if either of the system fans is not working. Follow the steps below to replace the malfunctioning fan with a good one.
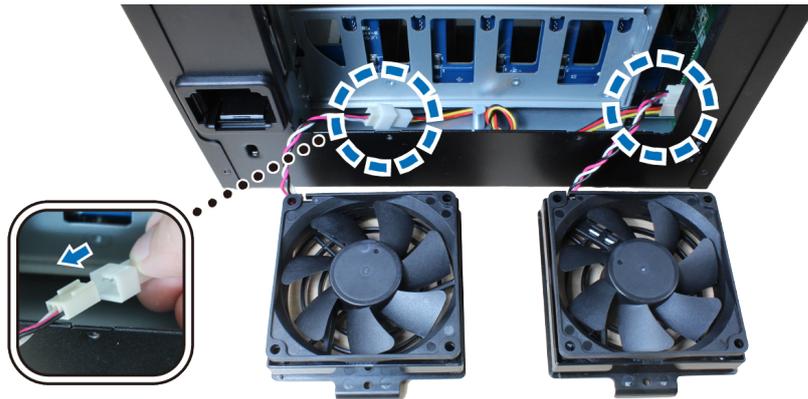
1 Shut down your expansion unit. Disconnect all cables connected to your expansion unit to prevent any possible damages.

2 Fans are numbered as follows:

3 Remove the screws that secure the fan panels and pull the panels from the expansion unit.

4 Remove the malfunctioning fans by disconnecting the fan cable from the connectors.

5 Connect the cables of the new fans to the connectors and tighten the screws removed in step 3.

Learn More

Congratulations! Your expansion unit is now ready for action. For more information or online resources about your DiskStation, please visit **www.synology.com**.

Specifications

Item	DX517
Compatible Drive Type	3.5" / 2.5" SATA x 5
Expansion Port #	1
Maximum Internal Raw Capacity	50TB (5 x 10TB HDD)
Hot Swappable Drive	Yes
Size (HxWxD) (mm)	157 x 248 x 233
Weight (kg)	3.91
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60Hz, Single Phase
Operating Temperature	5°C to 40°C (40°F to 104°F)
Storage Temperature	-10°C to 70°C (15°F to 155°F)
Relative Humidity	5% to 95% RH
Certification	FCC Class B • CE Class B • BSMI Class B
Supported Models	DS1517+, DS1817+

Note: Please visit www.synology.com for the latest compatible models.

LED Indicator Table

LED Indicator	Color	Status	Description
ALERT	Orange	Static	System fan malfunctioning
	Off		System fan normal
eSATA	Green	Static	Connected to Synology DiskStation
	Off		Not connected to Synology DiskStation
Drive status (on trays)	Green	Static	Drive ready and idle
		Blinking	Accessing drive
	Orange	Static	Drive error
	Off		No internal drive
POWER	Blue	Static	Powered on
	Off		Powered off
STATUS	Green	Static	Volume normal
	Orange		Volume degraded / Volume crashed
	Off		No volume / HDD hibernation

Note: Model specifications are subject to change without notice. Please refer to **www.synology.com** for the latest information.