

Synology DiskStation DS419slim

Hardware Installation Guide

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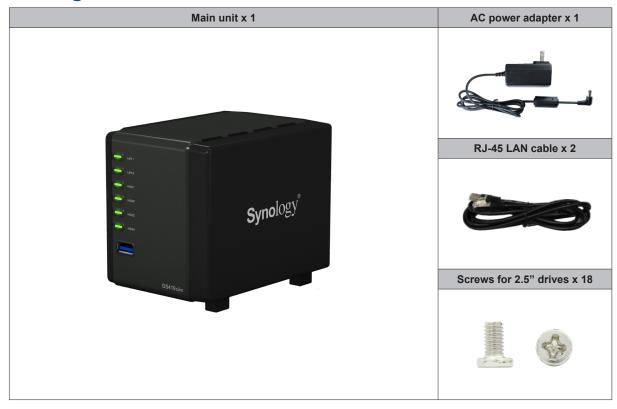
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Before You Start

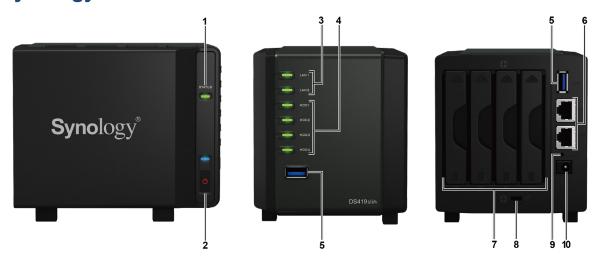
Thank you for purchasing this Synology product! Before setting up your new DiskStation, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your DiskStation.

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

Package Contents



Synology DiskStation at a Glance



No.	Article Name	Location	Description	
1	Status Indicator		Displays the status of the system. For more information, see "Appendix B: LED Indicator Table".	
2	Power Button	Side Panel	Press to power on the DiskStation. To power off the DiskStation, press and hold until you hear a beep sound and the Power LED starts blinking.	
3	LAN Indicator	Front Panel	Displays the status of the network connection. For more information, see "Appendix B: LED Indicator Table".	
4	Disk Indicator	TIONE Fane	Displays the status of the installed drives. For more information, see "Appendix B: LED Indicator Table".	
5	USB 3.0 Ports	Front & Back Panel	Connect external drives or other USB devices to the DiskStation here.	
6	LAN Ports		Connect a network cable here.	
7	Drive Trays		Install drives (hard disk drives or solid state drives) here.	
8	Kensington Security Slot	Back Panel	Attach a Kensington security lock here.	
9	RESET Button		Press and hold until you hear a beep sound to restore the default IP address, DNS server, and passwords for the admin account. Press and hold until you hear a beep sound, then press and hold again until you hear three beep sounds to return the DiskStation to "Not Installed" status so that DiskStation Manager (DSM) can be reinstalled.	
10	Power Port		Connect the AC power adapter here.	

Chapter 1: Before You Start

Safety Instructions

	Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.
(ãojou a	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.
2 !! → =================================	To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.
4	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 2.5" SATA drive (please visit www.synology.com for compatible drive models)

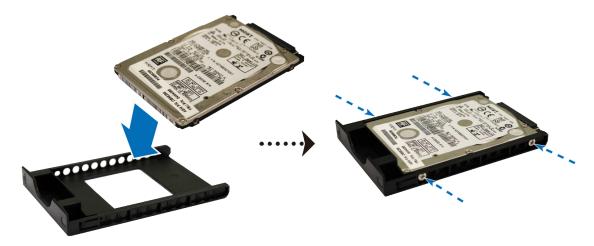
Warning: If you install a drive that contains data, the system will format the drive and erase all existing data. Please back up any important data before installation.

Install Drives

1 Pull and remove one of the drive trays.



2 Place a drive in the drive tray. Tighten the screws into the holes on the two sides of the drive tray to secure the drive in place, as illustrated below.



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



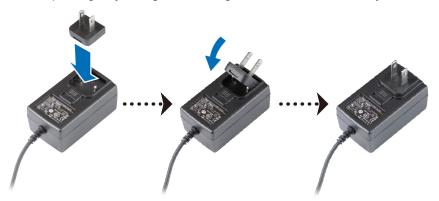
Important: Make sure the drive tray is completely inserted. Otherwise, the drive might not function properly.

4 Repeat the steps above to install all prepared drives.

Note: If you want to create a RAID volume, we recommend that all installed drives are of the same size to make the best use of drive capacity.

Start Up Your DiskStation

1 Snap the provided plug adapter to the AC power adapter. Note that the plug adapter that comes with your DiskStation varies depending on your region. The image below is for reference only.



2 Connect one end of the AC power adapter to the power port of the DiskStation. Connect the other end to a power outlet.



3 Connect at least one LAN cable to one of the LAN ports of the DiskStation. Connect the other end to your switch, router, or hub.



4 Press the power button on the side panel to turn on your DiskStation.



Replace Malfunctioning Fan

If the cooling fan located on the bottom of the DiskStation malfunctions, please follow the steps below to remove and replace the malfunctioning fan with a new one.

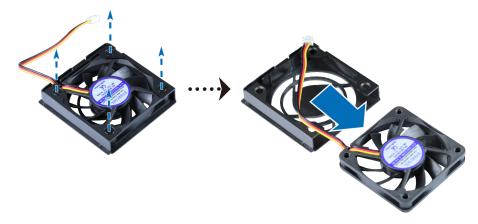
- 1 Power down the DiskStation and remove the power cord.
- 2 Turn the DiskStation upside down. Lift and open fan case.



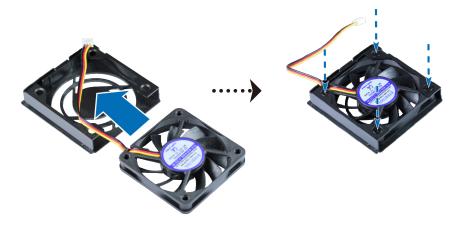
3 Find and carefully unplug the power cord of the fan.



4 Remove the screws from the fan case and slide out the malfunctioning fan.



5 Slide a new fan into the fan case. Tighten the screws to secure the fan in place.



6 Plug the fan power cord into the DiskStation, as illustrated below.



7 Close the fan case.



Install DSM on DiskStation

After hardware setup is finished, please install DiskStation Manager (DSM) – Synology's browser-based operating system – on your DiskStation.

Install DSM with Web Assistant

Your DiskStation comes with a built-in tool called **Web Assistant** that helps you download the latest version of DSM from the Internet and install it on your DiskStation. To use Web Assistant, please follow the steps below.

- 1 Power on the DiskStation.
- 2 Open a web browser on a computer connected to the same network as the DiskStation.
- 3 Enter either of the following into the address bar of your browser:
 - a find.synology.com
 - b diskstation:5000
- 4 Web Assistant will be launched in your web browser. It will search for and find the DiskStation within the local network. The status of the DiskStation should be **Not installed**.



- 5 Click Connect to start the setup process and follow the onscreen instructions.
- **6** If you accidentally leave the installation process before it is finished, log in to DSM as **admin** (default administrative account name) with the password left blank.

Note:

- 1. The DiskStation must be connected to the Internet to install DSM with Web Assistant.
- 2. Suggested browsers: Chrome, Firefox.
- 3. Both the DiskStation and the computer must be in the same local network.

Learn More

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



Specifications

Item	DS419slim		
Compatible Drive Type	2.5" SATA III / SATA II x 4		
Maximum Internal Raw Capacity	20 TB (4 x 5 TB HDD)		
External Ports	USB 3.0 x 2		
LAN Ports	1GbE (RJ-45) x 2		
Size (H x W x D) (mm)	120 x 105 x 142		
Weight (kg)	0.66		
Supported Clients	Windows 7 and 10		
Supported Clients	Mac OS X 10.11 onward		
File Contents	Internal: ext4		
File Systems	 External: ext4, ext3, FAT, NTFS, HFS+ (read only), exFAT¹ 		
	Basic • JBOD • RAID 0 • RAID 1		
Supported RAID Types	• RAID 5 • RAID 6 • RAID 10		
	 Synology Hybrid RAID (Up to 2-Disk Fault Tolerance) 		
Aganay Cartifications	• FCC Class B • CE Class B • BSMI Class B • EAC		
Agency Certifications	VCCI • CCC • RCM • KC • RoHS Compliant		
HDD Hibernation	Yes		
Scheduled Power On/Off	Yes		
Wake on LAN	Yes		
	∙ English • Deutsch • Français • Italiano • Español • Dansk • Norsk • Svensk		
Language Localization	• Nederlands • Русский • Polski • Magyar • Português do Brasil • Português Europeu		
30.	・Türkçe ・Český ・日本語・한국어・ไทย ・繁體中文・简体中文		
	Line voltage: 100V to 240V AC		
	Frequency: 50/60Hz		
Environment Requirements	 Operating Temperature: 40 to 104°F (5 to 40°C) 		
	 Storage Temperature: -5 to 140°F (-20 to 60°C) 		
	 Relative Humidity: 5% to 95% RH 		

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

¹ Support for exFAT can be enabled by purchasing and downloading exFAT Access in Package Center.

LED Indicator Table

LED Indicator	Color	Status	Description
	Green	Static	Volume normal
	Orange	Blinking	Volume degraded / Volume crashed
STATUS			Volume not created
			DSM not installed
	Off		HDD hibernation
	Blue	Static	Powered on
Power		Blinking	Booting up / Shutting down
	Off		Powered off
	Green	Static	Network connected
LAN		Blinking	Network active
	Off		No network
	Green	Static	Drive ready and idle
Disk 1-4		Blinking	Accessing drive
DISK 1-4	Orange	Static	Drive error / Port disabled ¹
	Off		No internal drive

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

¹ Please try to restart your DiskStation or re-insert the drive(s), and then run the HDD/SSD manufacturer's diagnostic tool to check the health status of the drive(s). If you can log into DSM, please run the built-in S.M.A.R.T. test to scan the drive(s). If the problem remains unresolved, please contact Synology Technical Support for help.

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("RMA") number by Synology before shipment and must be returned in accordance with Synology's then current RMA procedures. Customer may contact any authorized Synology distributor or reseller or Synology Support to obtain assistance in obtaining an RMA, and must provide proof of purchase and product serial number when asking for such assistance. For warranty claims, Customer must return the complete Product to Synology in accordance with this Section 3.3 to be eligible for coverage under this Warranty. Any Product returned without an RMA number, or any Product that has been disassembled (except under the direction of Synology) will be refused and returned to Customer at Customer's expense. Any Product that has been assigned a RMA number must be returned in the same condition as it was received from Synology to the address designated by Synology, freight pre-paid, in packaging sufficient to protect the contents thereof and with the RMA number prominently displayed on the outside of the box. Customer is responsible for insurance and risk of loss with respect to returned items until they are properly received by Synology. A Product with a RMA number must be returned within fifteen (15) days after issuance of the applicable RMA number.

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Section 4. Limitations of Liability

- 4.1 Force Majeure. Synology will not be liable for, or be considered to be in breach of or default under this Warranty on account of, any delay or failure to perform as required by this Warranty as a result of any cause or condition beyond its reasonable control (including, without limitation, any act or failure to act by Customer).
- 4.2 Disclaimer of Certain Damages. IN NO EVENT WILL SYNOLOGY OR ITS SUPPLIERS BE LIABLE FOR THE COST OF COVER OR FOR ANY INCIDENTAL, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL OR SIMILAR DAMAGES OR LIABILITIES WHATSOEVER (INCLUDING, BUT NOT LIMITED TO LOSS OF DATA, INFORMATION, REVENUE, PROFIT OR BUSINESS) ARISING OUT OF OR RELATING TO THE USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY EVEN IF SYNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

USE OR INABILITY TO USE THE PRODUCT, ANY ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES PROVIDED UNDER THIS WARRANTY IS LIMITED TO THE AMOUNT ACTUALLY PAID BY CUSTOMER FOR THE PRODUCT REGARDLESS OF THE AMOUNT OF DAMAGES CUSTOMER MAY INCUR AND WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY. The foregoing disclaimer of certain damages and limitation of liability will apply to the maximum extent permitted by applicable law. The laws of some states/jurisdictions do not allow exclusion or limitation of certain damages. To the extent that those laws apply to the Product, the exclusions and limitations set forth above may not apply to Customer.

Section 5. Miscellaneous

- 5.1 Proprietary Rights. The Product and any accompanying Software and documentation provided with the Product include proprietary and intellectual property rights of Synology and its third party suppliers and licensors. Synology retains and reserves all right, title, and interest in the intellectual property rights of the Product, and no title to or ownership of any intellectual property rights in or to the Product, any accompanying Software or documentation and any other goods provided under this Warranty is transferred to Customer under this Warranty. Customer will (a) comply with the terms and conditions of the Synology end user license agreement accompanying any Software furnished by Synology or an authorized Synology distributor or reseller; and (b) not attempt to reverse engineer any Product or component thereof or accompanying Software or otherwise misappropriate, circumvent or violate any of Synology's intellectual property rights.
- 5.2 Assignment. Customer will not assign any of its rights under this Warranty directly, by operation of law or otherwise, without the prior written consent of Synology.
- 5.3 No Additional Terms. Except as expressly permitted by this Warranty, neither party will be bound by, and each party specifically objects to, any term, condition or other provision that conflicts with the provisions of this Warranty that is made by the other party in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, unless each party specifically agrees to such provision in writing. Further, if this Warranty conflicts with any terms or conditions of any other agreement entered into by the parties with respect to the Product, this Warranty will prevail unless the other agreement specifically references the sections of this Warranty that it supersedes.
- 5.4 Applicable Law. Unless explicitly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. for the Customers residing within the United States; and by the laws of the Republic of China (Taiwan) for Customers not residing within the United States, without regard to any conflict of law principles to the contrary. The 1980 U.N. Convention on Contracts for the International Sale of Goods or any successor thereto does not apply.
- 5.5 Dispute Resolution. Any dispute, controversy or claim arising out of or relating to this Warranty, the Product or services provided by Synology with respect to the Product or the relationship between Customers residing within the United States and Synology will be resolved exclusively and finally by arbitration under the current commercial rules of the American Arbitration Association, except as otherwise provided below. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute between Customer and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall be held in King County, Washington, U.S.A. by submission of documents, by telephone, online or in person as determined by the arbitrator at the request of the parties. The prevailing party in any arbitration or legal action occurring within the United States or otherwise shall receive all costs and reasonable attorneys' fees, including any arbitration fee paid by the prevailing party. Any decision rendered in such arbitration proceedings will be final and binding on the parties, and judgment may be entered thereon in any court of competent jurisdiction. Customer understands that, in the absence of this provision, Customer would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and Customer expressly and knowingly waives those rights and agrees to resolve any disputes through binding arbitration in accordance with the provisions of this Section 5.5. For Customers not residing within the United States, any dispute, controversy or claim described in this section shall be finally resolved by arbitration conducted by three neutral arbitrators in accordance with the procedures of the R.O.C. Arbitration Law and related enforcement rules. The arbitration shall take place in Taipei, Taiwan, R.O.C., and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese. The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this Warranty relating to Synology's intellectual property rights.
- 5.6 Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this Warranty, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.
- 5.7 Export Restrictions. You acknowledge that the Product may be subject to U.S. export restrictions. You will comply with all applicable laws and regulations that apply to the Product, including without limitation the U.S. Export Administration Regulations.

- 5.8 Severability. If any provision of this Warranty is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this Warranty will remain in full force and effect.
- 5.9 Entire Agreement. This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.

FCC Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

この装置は、クラス B 機器です。この装置は、住宅環境で使用することを目的 としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI — B