Synology®

Synology DiskStation DS218+

Hardware Installation Guide

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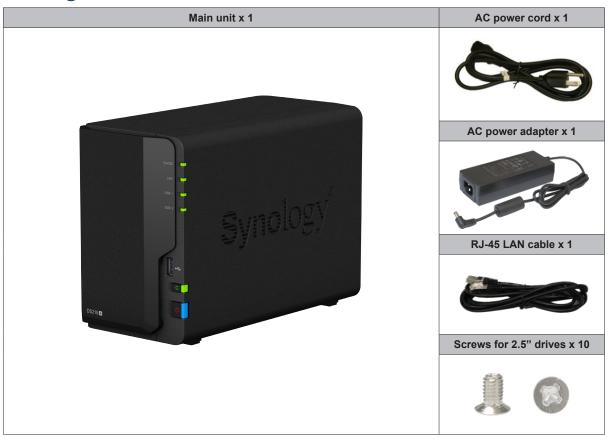
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Before You Start

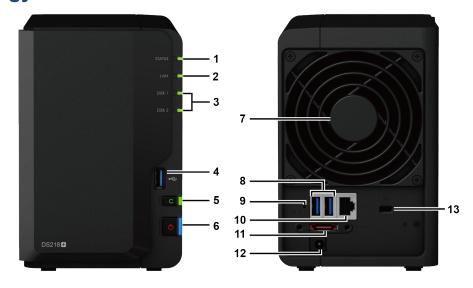
Thank you for purchasing this Synology product! Before setting up your new DiskStation, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your DiskStation.

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	LAN Indicator		Displays the status of the network connection. For more information, see "Appendix B: LED Indicator Table".
3	Disk Indicator	Front Panel	Displays the status of the installed drives. For more information, see "Appendix B: LED Indicator Table".
4	USB 3.0 Port		Connect external drives or other USB devices to the DiskStation here.
5	Copy Button		Lights up when you connect a USB device (e.g. digital camera, USB storage device, etc.). Press the copy button to copy data from the connected USB device to internal drives.
6	Power Button		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.
7	Fan		Disposes of excess heat and cools the system. If the fan malfunctions, the DiskStation will emit a beeping sound.
8	USB 3.0 Ports		Connect external drives or other USB devices to the DiskStation here.
9	RESET Button	Back Panel	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	LAN Port		Connect a network cable here.
11	eSATA Port		Connect external SATA drives here.
12	Power Port		Connect the AC adapter here.
13	Kensington Security Slot		Attach a Kensington security lock 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.
(Rojota's	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 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	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 (only for 2.5" drives)
- 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 Remove the drive bay cover from the front panel.



2 Push the latch upward and pull the handle to remove the drive tray from your DiskStation.



- 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 put them in a safe place. Place the drive in the blue area (shown below) of the drive tray, turn the tray upside down, and then tighten the screws provided to secure the drive.



4 Insert the loaded drive tray into the empty drive bay. Make sure the side marked with "UP" is facing up, and insert the drive tray into the empty drive bay. You should hear a click when the tray is locked in place.



5 Repeat the steps above to install the other drive if you have prepared one.

6 Drives are numbered as shown below.



7 Replace the hard drive bay cover to finish the installation.



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 Use the LAN cable to connect the DiskStation to your switch, router, or hub.
- 2 Connect the AC adapter to the power port of the DiskStation. Connect one end of the AC power cord to the AC power adapter, and the other to the power outlet.



 ${\bf 3}\,$ Press the power button to turn on your DiskStation.



Your DiskStation is now online and detectable from a network computer.

Add a Memory Module on DiskStation

The optional Synology memory module is designed for DiskStation memory expansion. Follow the steps below to install, check, or remove a memory module on your DiskStation.

To install a memory module:

- 1 Shut down your DiskStation. Disconnect all cables connected to your DiskStation to prevent any possible damages.
- 2 Remove the two hard drive trays from the two drive bays. An empty memory slot is located on the inner right side of your DiskStation.



Important: When you remove the drive trays, you expose sensitive internal components. Avoid touching anything other than the memory assembly when you remove or add a memory module.

- 3 Insert the new memory module into the empty slot:
 - **a** Align the notch on the gold contacts of the memory module with the notch on the empty slot. Insert the memory module into the slot. Make sure the module is properly inserted.
 - **b** Push down on the memory module with moderate pressure until you hear a click.



Important: Hold the memory module by its edge, and do not touch the gold contacts.

Note: Synology will not provide complete product warranty or technical support if a non-Synology memory module is used for memory upgrade.

- 4 Insert the two hard drive trays back into the hard drive bays.
- **5** Reconnect the cables you removed in step 1, and then press and hold the power button to turn on your DiskStation.

To make sure DiskStation recognizes the new memory capacity:

- 1 Install DiskStation Manager (DSM). Please see the next chapter for more information.
- **2** Log into DSM as **admin** or a user belonging to the **administrators** group.
- 3 Check Total Physical Memory in Control Panel > Info Center.

If your DiskStation does not recognize the memory or does not start up successfully, please make sure that the memory module is installed correctly.

To remove the memory module:

- 1 Follow step 1 and 2 of the "To install a memory module" section to shut down your DiskStation, disconnect the cables, and then remove the two hard drive trays.
- 2 Push the levers on both sides of the memory module outward. The memory module will be released from the slot.



- 3 Hold the memory module by its notches and remove it from the slot.
- 4 Insert the hard drive trays back into the hard drive bays.
- **5** Reconnect the cables removed in step 1. Now you may turn on your DiskStation.

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, please log into 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	DS218+
Compatible Drive Type	3.5" / 2.5" SATA x 2
Maximum Internal Raw Capacity	20TB (2 x 10TB hard drives)
External Ports	• USB 3.0 x 3
External Ports	• eSATA x 1
LAN Ports	1GbE (RJ-45) x 1
Size (H x W x D) (mm)	165 x 108 x 233.2
Weight (kg)	1.30
Supported Clients	Windows 7 and 10
Supported Clients	• • Mac OS X 10.11 onward
File Systems	Internal: Btrfs, ext4
i lie Systems	• External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT ¹
Supported RAID Types	Basic • JBOD • RAID 0 • RAID 1
Supported NAID Types	Synology Hybrid RAID (1-Disk Fault Tolerance)
Agency Certifications	• FCC Class B • CE Class B • BSMI Class B
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
	・Türkçe ・Český ・日本語・한국어・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 The support for exFAT can be enabled after you have purchased and downloaded 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
	0	Static	Network connected
LAN	Green	Blinking	Network active
	Off		No network
	Green	Static	Drive ready and idle
D: 1.4.0		Blinking	Accessing drive
Disk 1-2	Orange	Static	Drive error / Port disabled ¹
	Off		No internal drive
	0	Static	Device detected
Copy ²	Green	Blinking	Copying data
	Off		No device connected
	DI.	Static	Powered on
Power	Blue	Blinking	Booting up / Shutting down
	Off		Powered off

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.

² For models with Copy Button, the USB Copy package is installed on your DSM by default.

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the expiration of the applicable Warranty Period, support for Products may be available from Synology upon written request.

- **Exclusions.** The foregoing warranties and warrantv obligations do not apply to any Product that (a) has been installed or used in a manner not specified or described in the Product specifications; (b) has been repaired, modified or altered by anyone other than Synology or its agent or designee; (c) has been in any way misused, abused, or damaged; (d) has been used with items not provided by Synology other than the hardware or software for which the Product is designed; or (e) otherwise fails to conform to the Product specifications and such failure is attributable to causes not within or under Synology's control. Further, the foregoing warranties will be void if (1) Customer disassembles the Product except as authorized by Synology; (2) Customer fails to implement any correction, modification, enhancement, improvement or other update made available to Customer by Synology; or (3) Customer implements, installs or uses any correction, modification, enhancement, improvement or other update made available by any third party. The warranty set forth in Section 2.1 will terminate upon Customer's sale or transfer of the Product to a third party.
- **2.7 Disclaimer of Warranties.** THE WARRANTIES, OBLIGATIONS, AND LIABILITIES OF SYNOLOGY AND THE REMEDIES OF CUSTOMER SET FORTH IN THIS WARRANTY ARE EXCLUSIVE AND IN SUBSTITUTION FOR, AND CUSTOMER HEREBY WAIVES, RELEASES OTHER DISCLAIMS, ALL WARRANTIES, OBLIGATIONS AND LIABILITIES OF SYNOLOGY AND ALL OTHER RIGHTS, CLAIMS AND REMEDIES OF CUSTOMER AGAINST SYNOLOGY, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO THE PRODUCT, ACCOMPANYING DOCUMENTATION OR SOFTWARE AND ANY OTHER GOODS OR SERVICES DELIVERED UNDER THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO ANY: (A) IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE: (B) IMPLIED WARRANTY ARISING FROM COURSE OF PÉRFORMANCE, COURSE OF DEALING, OR USAGE OF (C) CLAIM OF **INFRINGEMENT** MISAPPROPRIATION; OR (D) CLAIM IN (WHETHER BASED ON NEGLIGENCE, STRICT LIABILITY, PRODUCT LIABILITY OR OTHER THEORY). SYNOLOGY MAKES NO GUARANTEE AND SPECIFICALLY DISCLAIMS ANY WARRANTY THAT THE DATA OR INFORMATION STORED ON ANY SYNOLOGY PRODUCT WILL BE SECURE AND WITHOUT RISK OF DATA LOSS. SYNOLOGY RECOMMENDS THAT CUSTOMER TAKES APPROPRIATE MEASURES TO BACK UP THE DATA STORED PRODUCT. ON THE STATES/JURISDICTIONS DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES, SO THE ABOVE LIMITATION MAY NOT APPLY TO CUSTOMER.

Section 3. Limitations of Liability

- **3.1** 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).
- 3.2 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.

Limitation of Liability. SYNOLOGY'S AND ITS SUPPLIERS' LIABILITY 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 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 4. Miscellaneous

- 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.
- **4.2 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.
- **4.3 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.
- **4.4 Applicable Law.** Unless expressly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. 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.
- **4.5 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 4.5. 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.

- **4.6 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.
- **4.7 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.
- **4.8** 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.
- **4.9 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.