Synology®

# Synology DiskStation DS418j

**Hardware Installation Guide** 

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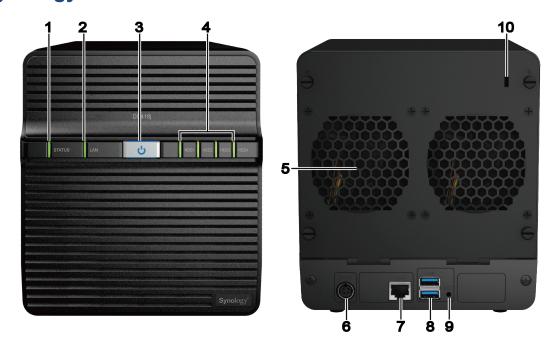
## **Before You Start**

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.

### **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	Front Panel	Displays the status of the network connection. For more information, see "Appendix B: LED Indicator Table".
3	Power Button		<ol> <li>Press to power on the DiskStation.</li> <li>To power off the DiskStation, press and hold until you hear a beep sound and the Power LED starts blinking.</li> </ol>
4	Disk Indicator		Displays the status of the installed drives. For more information, see "Appendix B: LED Indicator Table".
5	Fan	Back Panel	Disposes of excess heat and cools the system. If the fan malfunctions, the DiskStation will emit a beeping sound.
6	Power Port		Connect the AC adapter here.
7	LAN Port		Connect a network cable here.
8	USB 3.0 Port		Connect external drives, USB printers, or other USB devices to the DiskStation 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 <b>admin</b> account.
3	7 RESET BUILDIT	<ol><li>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.</li></ol>	
10	Kensington Security Slot		Attach a Kensington security lock here.

# **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 - 1	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**

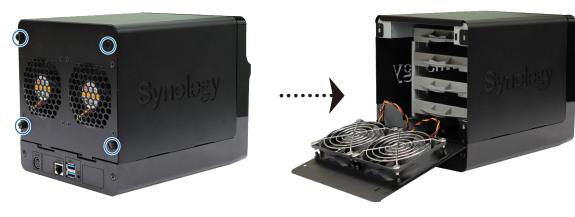
## **Tools and Parts for Drive Installation**

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

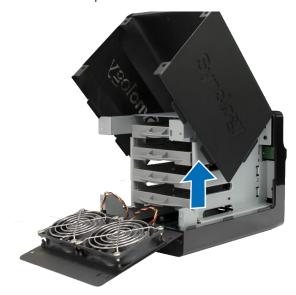
**Warning:** If you install a drive that contains data, the system will format the drive and erase all existing data. Please back up any important data before installation.

### **Install Drives**

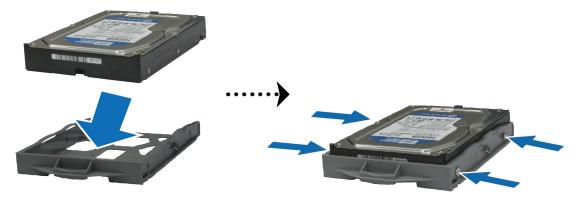
1 Remove the 4 screws that secure the back cover, and then put the back cover down carefully.



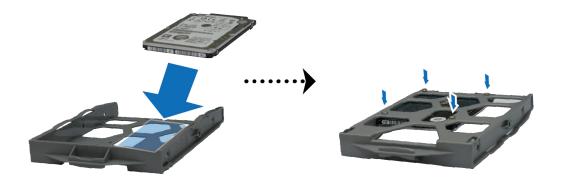
2 Lift the upper case and then place it aside.



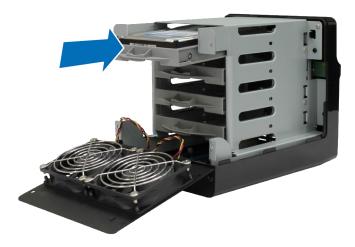
- 3 Load drives in the drive trays.
  - For 3.5" drives: Place the drive in the drive tray. Then tighten the screws to secure the drive in place.



• For 2.5" drives: 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 drive tray is completely inserted. Otherwise, the drive might not be able to function properly.

**5** Repeat the steps above to install all prepared drives.

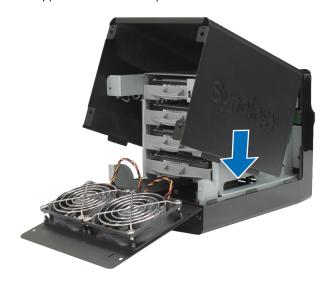
6 Drives are numbered as shown below.



• For 3.5" drives only: It is recommended that you secure the drive trays with the screws (for securing drive trays) provided. For drives without the central mounting holes, you can skip this step.



7 Place the upper case back to its position.



8 Close the back cover. Replace and tighten the 4 screws you removed in step 1.



**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 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.
- 2 Use the LAN cable to connect the DiskStation to your switch, router, or hub.



3 Press your power button to turn on your DiskStation.



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

### 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 <a href="https://www.synology.com">www.synology.com</a>.



# **Specifications**

Item	DS418j	
Compatible Drive Type	3.5" / 2.5" SATA x 4	
Maximum Internal Raw Capacity	40TB (4 x 10TB hard drives)	
External Ports	USB 3.0 x 2	
LAN Ports	1GbE (RJ-45) x 1	
Size (H x W x D) (mm)	184 x 168 x 230	
Weight (kg)	2.21	
Supported Clients	Windows 7 onward	
	Mac OS X 10.10 onward	
File Systems	Internal: EXT4	
File Systems	• External: EXT4, EXT3, FAT, NTFS, HFS+, exFAT1 <sup>1</sup>	
	Basic • JBOD • RAID 0 • RAID 1	
Supported RAID Types	• RAID 5 • RAID 6 • RAID 10	
	Synology Hybrid RAID (up to 2-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	<ul> <li>Operating Temperature: 40 to 104°F (5 to 40°C)</li> </ul>	
	<ul> <li>Storage Temperature: -5 to 140°F (-20 to 60°C)</li> </ul>	
	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.

<sup>&</sup>lt;sup>1</sup> Support for exFAT can be enabled by purchasing and downloading exFAT Access in Package Center.

# **LED Indicator Table**

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

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

<sup>&</sup>lt;sup>1</sup> 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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- **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.