Synology®

Synology DiskStation DS2415+

Quick Installation Guide

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Appedix B: LED Indicator Table

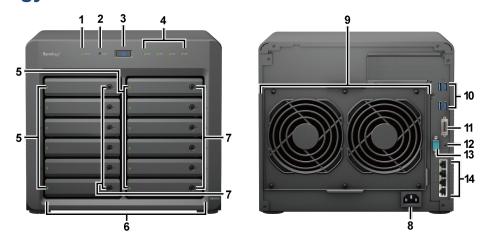
Before You Start

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	Alert Indicator	Front Panel	Displays warnings regarding fan or temperature. For more information, see "Appendix B: LED Indicator Table".
3	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.
4	LAN Indicator		Displays the status of the network connection. For more information, see "Appendix B: LED Indicator Table".
5	Drive Status Indicator		Displays the status of the installed drive. For more information, see "Appendix B: LED Indicator Table".
6	Drive Tray		Install drives (hard disk drives or solid state drives) here.
7	Drive Tray Lock		Lock or unlock drive trays.
8	Power Port		Connect the AC power cord here.
9	Fan	Back Panel	Disposes of excess heat and cools the system. If the fan malfunctions, the DiskStation will emit a beeping sound.
10	USB 3.0 Port		Connect external drives, USB printers, or other USB devices to the DiskStation here.
11	Expansion Port		Connect Synology Expansion Unit ¹ to the DiskStation here.
12	RESET Button	DACK FAILEI	 Press and hold until you hear a beep sound to restore the default IP address, DNS server, and password 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.
13	Console Port		This port is used for manufacturing use only.
14	LAN Port		Connect network cables here.

Chapter 1: Before You Start

¹ For more information about Synology Expansion Unit supported by your DiskStation, please visit www.synology.com.

Safety Instructions

	Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.
(golon 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 1 1 2	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 (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 Press the right 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 the "-" position) 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 recommended 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 one end of the AC power cord to the power port of the DiskStation, and the other to the power outlet.



3 Press the power button.



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

Add a RAM Module on DiskStation

The optional Synology DDR3 RAM module is designed for DiskStation memory expansion. Follow the steps below to install, check, or remove a RAM module on your DiskStation.

To install the RAM module:

- 1 Shut down your DiskStation. Disconnect all cables connected to your DiskStation to prevent any possible damage.
- 2 Remove the side cover:
 - a Remove the 2 screws on the back of DiskStation.

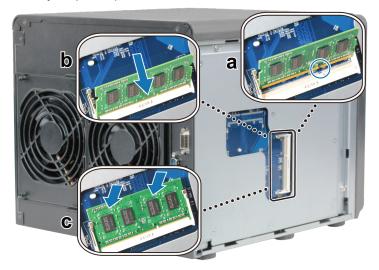


b Pull the side cover. Place the side cover to the side.



Note: When you remove the case, you expose sensitive internal components. Avoid touching anything other than the memory assembly when you remove or add memory.

- 3 Insert the new memory module in the slot:
 - a Align the notch on the gold edge of the module with the notch in the lower memory slot.
 - **b** Tilt the card and push the memory into the slot. Make sure the module is pushed in all the way.
 - **c** Use two fingers with firm, even pressure to push down on the memory module. You should hear a click when the memory snaps into position.



Note: Hold the memory module by its edges, and do not touch the gold connectors.

4 Replace the side cover. Replace and tighten the 2 screws you removed in step 2-a.

To make sure DiskStation recognizes the new memory capacity:

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

If your DiskStation fails to either recognize the memory or start up successfully, confirm that the memory has been properly installed.

To remove the RAM Module:

- 1 Follow step 1 and 2 of the "To install the RAM module" section to shut down your DiskStation, disconnect the cables, and then remove the side cover.
- 2 Push the levers on the sides of the memory module in an outward direction to release the module from the memory card slot.
- **3** Hold the memory module by its notches and remove it from the slot.



4 Replace the side cover. Replace and tighten the screws you removed in the initial step.

Replace System Fan

Your DiskStation will play beep sounds if either of the system fans is not working. Follow the steps below to replace the malfunctioning fan module with a good one.

To replace the system fan module:

- 1 Shut down your DiskStation. Disconnect all cables connected to your DiskStation to prevent any possible damages.
- 2 Pull the 6 push pins that secure the fan module.



- 3 To remove the malfunctioning fan module, you simply need to pull it out from your DiskStation.
- 4 Install the new fan module:
 - **a** Install the new module with the power connector at the bottom, so that it can be properly put onto the chassis.



b Make sure all six push pins are pulled outwards before the module is attached, and then press the push pins back into place to secure the fan module.

Chapter

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.

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.
- **6** If you accidentally leave the installation process before it is finished, login to the DSM as **admin** (default administrative account name) with the password left blank.

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	DS2415+			
Internal Drives	3.5" or 2.5" SATA(II) or SATA (III) x 12			
Mary Carracity	• 72 TB (12 x 6 TB drives)			
Max. Capacity	• 144 TB with DX1215 (expansion unit)			
External Device Ports	• USB 3.0 x 4			
External Device Forts	• Expansion port x 1			
LAN Ports	Gigabit x 4			
Size (H x W x D) (mm)	270 x 300 x 340			
Weight (kg)	9.24			
	Windows XP onward			
Supported Clients	Mac OS X 10.5 onward			
	Ubuntu 9.04 onward			
File Ourterne	Internal: EXT4			
File Systems	External: EXT4, EXT3, FAT, NTFS, HFS+			
	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			
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			
	Line voltage: 100V to 240V AC			
	• Frequency: 50/60Hz			
Environment Requirements	 Operating Temperature: 40 to 95°F (5 to 35°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.

LED Indicator Table

LED Indicator	Color	Status	Description
STATUS	Green	Static	Volume normal
	Orange	Blinking	Volume degraded or crashed
			Volume not created
			DSM not installed
	Off		HDD hibernation
ALERT	Red	Blinking	Fan failure or over temperature
ALERI	Off		System normal
	Blue Power	Static	Powered on
Power		Blinking	Booting up or shutting down
		Off	Powered off
	Green	Static	Gigabit connection
	Green	Blinking	Gigabit network active
Front LAN	Orange	Static	100 Mbps connection
TIOIL LAN		Blinking	100 Mbps network active
	Off		10 Mbps connection
			No network
	Green	Static	Gigabit connection
Rear LAN	Orange	Static	100 Mbps connection
(on upper side of jack)	Off		10 Mbps connection
			No network
	Rear LAN Green	Static	Network connected
Rear LAN (on lower side of jack)		Blinking	Network active
, , , , , , , , , , , , , , , , , , , ,	Off		No network
	Green ve Status Indicator	Static	Drive ready and idle
Drive Status Indicator (on tray)		Blinking	Accessing drive
	Orange	Static	Drive error
	Off		No internal drive

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

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- **2.5 Support.** During the Warranty Period, Synology will make available to Customer the support services. Following the expiration of the applicable Warranty Period, support for

Products may be available from Synology upon written request.

- Exclusions. The foregoing warranties and warranty 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 WARRANTIES, DISCLAIMS. ALL OBLIGATIONS AND LIABILITIES OF SYNOLOGY AND ALL OTHER RIGHTS, CLAIMS AND REMEDIES CUSTOMER AGAINST SYNOLOGY, EXPRESS 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 PERFORMANCE, COURSE OF DEALING, OR USAGE OF (C) CLAIM OF INFRINGEMENT (D) CLAIM MISAPPROPRIATION: OR TORT (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 ON THE PRODUCT. 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

- The Product and any Proprietary Rights. 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.