



Synology Adapter Card M2D18

Hardware Installation Guide

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Appendix A: Specifications

Before You Start






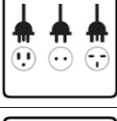
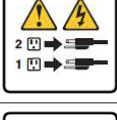

Thank you for purchasing this Synology product! Before setting up your new Adapter Card, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your Adapter Card.

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

Package Contents

Adapter card x 1		Heatsink x 2	
			
		Shielding bracket x 2 	
Standard full height bracket x 1	Nut x 3	Screws x 6	
			

Safety Instructions

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

Hardware Setup

Tools and Parts for Drive Installation

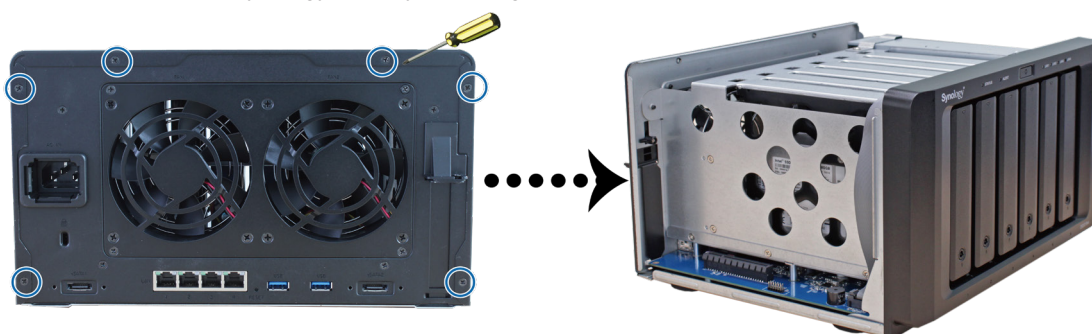
- A screwdriver (for removing the casing of your target installed DiskStation)

Attach M2D18 Adapter Card to Synology NAS

Please refer to Synology Hardware Compatibility List to make sure your Synology NAS supports M2D18 adapter card before attaching it.

To install the M2D18 adapter card:

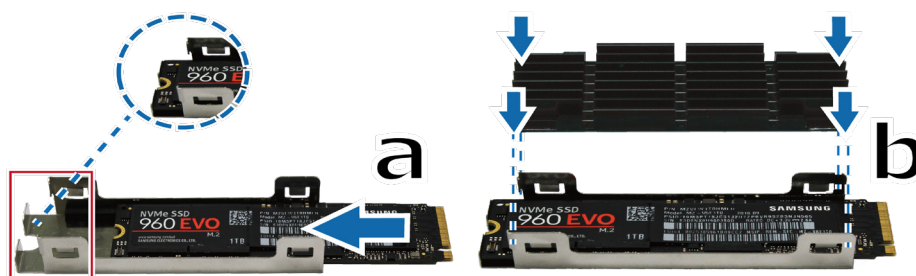
- 1 Press and hold the power button until you hear a beep sound to shut down your Synology NAS. Disconnect all cables from your Synology NAS to prevent any possible damage.
- 2 Open the top cover of Synology NAS by removing the 6 screws that secure the main unit.



Note: Here we use DS1618+ as an example. Please refer your Synology NAS Hardware Installation Guide for the proper casing removal process.

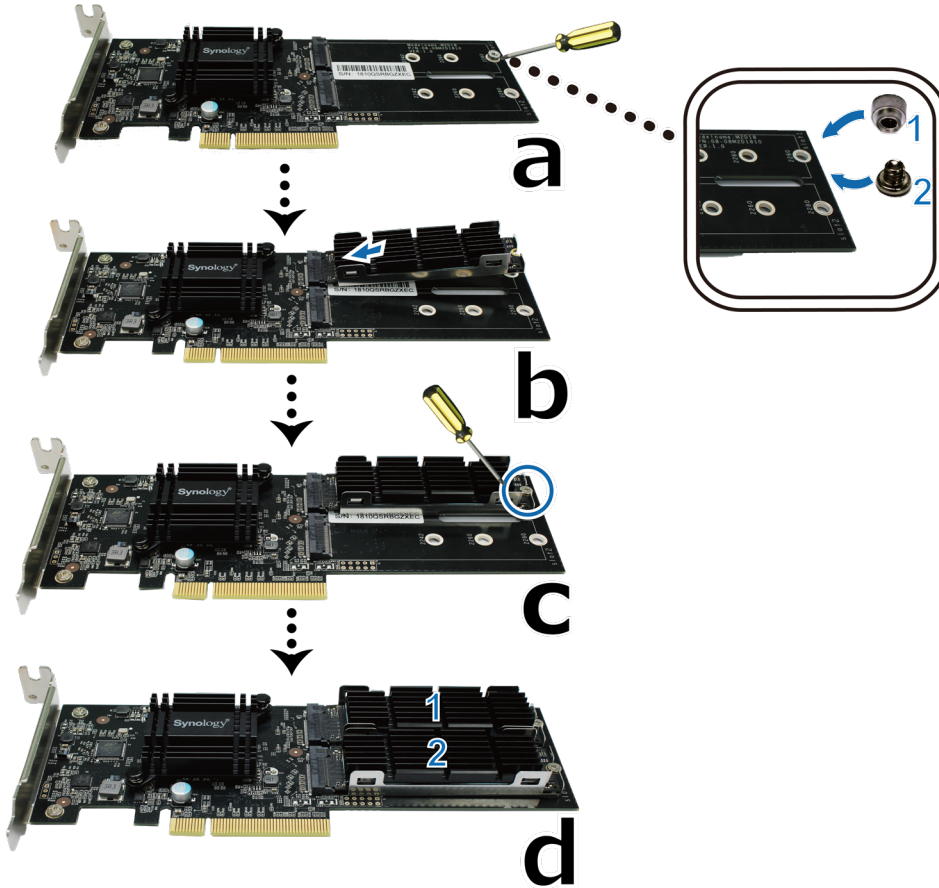
3 Assemble M.2 SSD:

- a Push the SSD all the way into the fixed bracket until it is firmly seated.
- b Align the heatsink with the clips of the bracket and press the four corners down. Please make sure the heatsink is firmly attached to the clips to ensure the smooth running of the SSD.

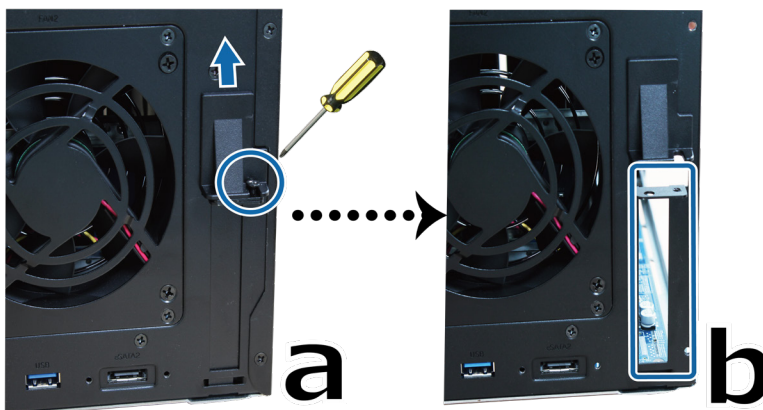


Note: Please remove the stretch wrap at the bottom of the heatsink before step 3-b.

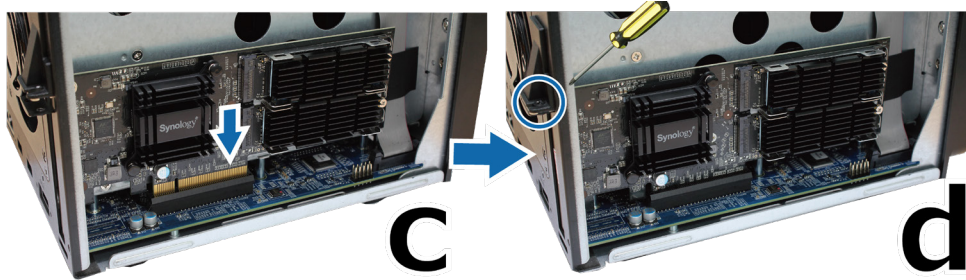
- 4 Add M.2 SSD to M2D18 adapter card:
- a Place a nut (1) and fasten a screw (2) to secure it.
 - b Insert M.2 SSD into the slot. Make sure the card is fully inserted.
 - c Tighten the SSD with a screw.
 - d Repeat previous two steps if installing another optional SSD is needed. Slot numbers are shown as below.



- 5 Install the M2D18 adapter card:
- a Remove the screw that secures the adapter slot's cover.
 - b Remove the adapter slot's cover.



- c Align the card's connector with the adapter slot and insert the card.
- d Fasten the removed screw in step 5-a so as to secure the newly inserted card.

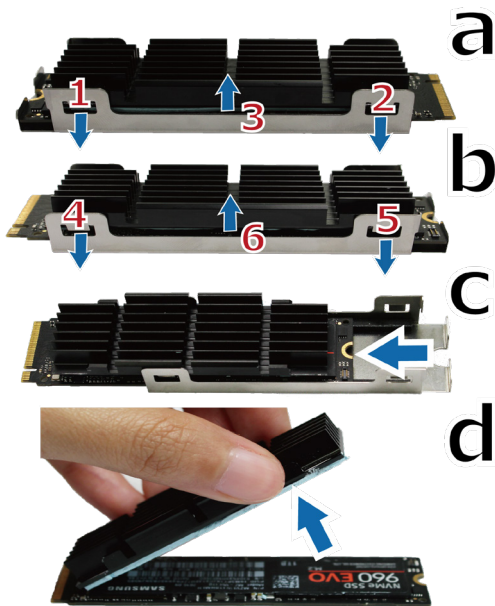


6 Place back the removed top cover in step 2 and tighten the screws.

Note: Make sure the connector is fully inserted or the adapter card may not function properly.

7 To disassemble the heatsink module:

- a Pull the metal clips of a shielding bracket outwards while pushing the heatsink upwards.
- b Rotate the bracket and repeat the step above to free the heatsink.
- c Slide out the detached heatsink and SSD.
- d Gently lift the heatsink to detach it from the SSD.



Specifications

Item	M2D18
PCIe Interface	PCIe 2.0 x 8
Driver Interface	PCIe NVMe/SATA
Connector Type and Quantity	M.2 M-Key x 2
Supported Form Factor	2280/ 2260/ 2242
Bracket Height	80 mm (half height), 120 mm (full height)
Size (H x W x D)	70 mm x 180 mm x 18 mm
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-5°F to 140°F)
Relative humidity	5% to 95% RH

Note:

- The supported NVMe/ SATA SSD will vary from different Synology NAS devices, please visit www.synology.com to get more information.
- The heatsink is only suited for M.2 2280 SSD.

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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.