



# **Synology Adapter Card E10M20-T1**

## **Hardware Installation Guide**

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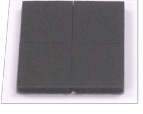




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# Before You Start

Thank you for purchasing this Synology product! Before setting up your new 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

<b>Adapter card x 1</b>		<b>Heatsink x 1</b>	
			
		<b>Rubber x 4 (Bag #1)</b>	
			
		<b>Thermal pad x 9 (Bag #2)</b>	
			
<b>Full-height bracket x 1</b>	<b>Screw pillar x 3</b>	<b>Screws x 6</b>	
			

# Hardware Specification

Item		E10M20-T1
General	Host Bus Interface	PCIe 3.0 x 8
	Bracket Height (mm)	80 (low profile), 120 (full height)
	Size (H x W x D) (mm)	71.75 x 200.55 x 17.70
	Agency Certification	<ul style="list-style-type: none"> <li>• FCC Class B • CE Class B • BSMI Class B</li> <li>• VCCI • RCM • RoHS Compliant</li> </ul>
	Environment Requirement	<ul style="list-style-type: none"> <li>• Operating Temperature: 0°C to 40°C (32°F to 104°F)</li> <li>• Storage Temperature: -20°C to 60°C (-5°F to 140°F)</li> <li>• Relative Humidity: 5% to 95% RH</li> </ul>
Storage	Interface	NVMe
	Supported Form Factor	M.2 22110/2280
	Connector Type and Quantity	M-key, 2 slots
Network	IEEE Specification Compliance	<ul style="list-style-type: none"> <li>• IEEE 802.3an 10GBASE-T 10 Gbps Ethernet</li> <li>• IEEE 802.3bz NBASE-T 2.5 Gbps/5 Gbps Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T 1 Gbps Ethernet</li> <li>• IEEE 802.3u 100BASE-Tx Fast Ethernet</li> <li>• IEEE 802.3x Flow Control</li> </ul>
	Data Transfer Rates	10 Gbps/5 Gbps/2.5 Gbps/1 Gbps/100 Mbps
	Network Operation Mode	Full Duplex
	Connector	RJ45 Copper
	Cable Distance	10GBASE-T: 55M using CAT 6, 100M using CAT 6a






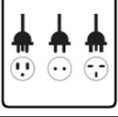
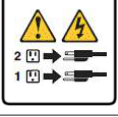

**Note:** The supported NVMe SSD will vary from different Synology NAS, please visit [www.synology.com](http://www.synology.com) to get more information.

## LED Indicator Table

LED Indicator	Color	Status	Description
LAN (on upper side of jack)	Green	Static	10 Gbps connection
	Orange	Static	5 Gbps/2.5 Gbps/1 Gbps/100 Mbps connection
	Off		No network
LAN (on lower side of jack)	Green	Static	Network connected
		Blinking	Network active
	Off		No network

**Note:** Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

## Safety Instructions

	<p>Keep away from direct sunlight and 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 electric 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 Installation

- A PH1 screwdriver (for adding M.2 SSD to E10M20-T1 adapter card)
- A PH2 screwdriver (for replacing the bracket)

## Attach M.2 SSD to E10M20-T1 Adapter Card

Please refer to [www.synology.com/compatibility](http://www.synology.com/compatibility) to make sure your Synology NAS supports E10M20-T1 adapter card before attaching it. For the instructions on how to install the E10M20-T1 to your Synology NAS, please refer to the [Hardware Installation Guide](#) of your NAS.

### To attach M.2 SSD to E10M20-T1 adapter card:

- 1 Identify whether the form factor of your SSD is M.2 2280 (a) or M.2 22110 (b). An M.2 22110 SSD should be longer than an M.2 2280 SSD.

### M.2 2280 SSD



a

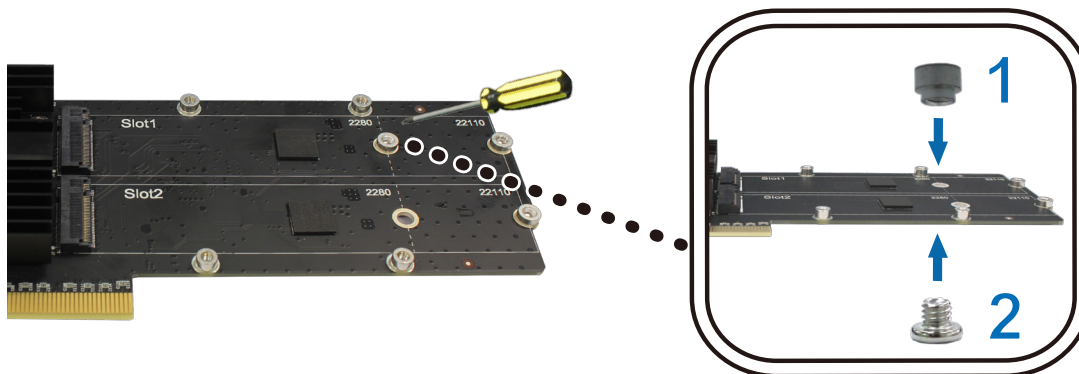
### M.2 22110 SSD



b

- 2 Add M.2 SSD to E10M20-T1 adapter card.

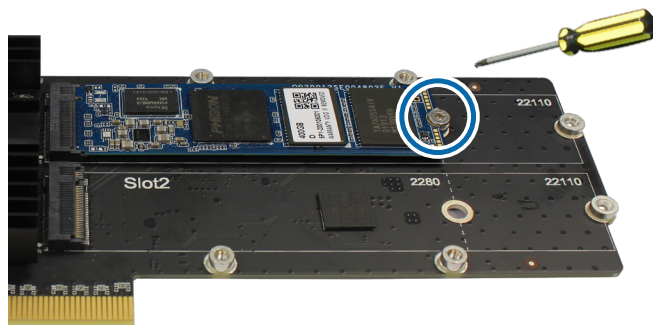
- For M.2 2280 SSD (SNV3400-400G):
  - a Place a screw pillar (1) and fasten a screw (2) to secure it.



b Insert SNV3400-400G into the slot. Make sure the card is fully inserted.



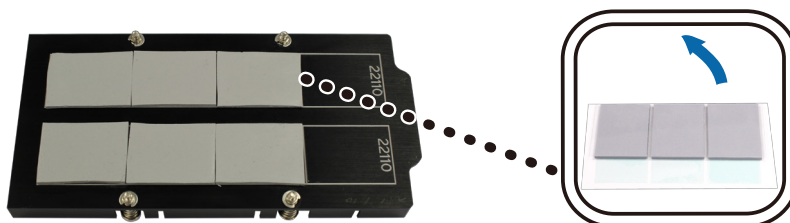
c Tighten SNV3400-400G with a screw.



d Repeat previous three steps if installing another M.2 SSD is needed. Slots are numbered as shown below.

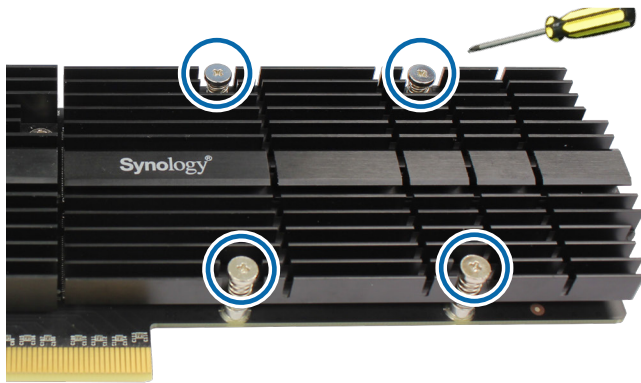


e Remove the protective film from the thermal pad and attach the thermal pad to the heatsink.



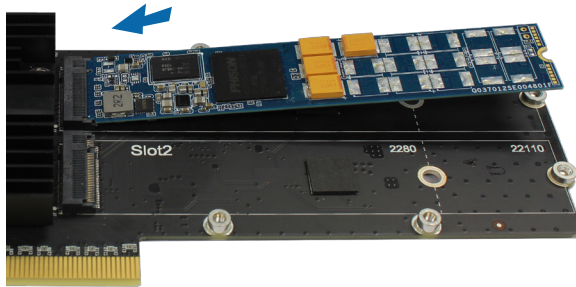


f Tighten the heatsink with four screws. Please make sure the heatsink is firmly attached to the adapter card to ensure the smooth running of the M.2 SSD.



• For M.2 22110 SSD (SNV3500-400G):

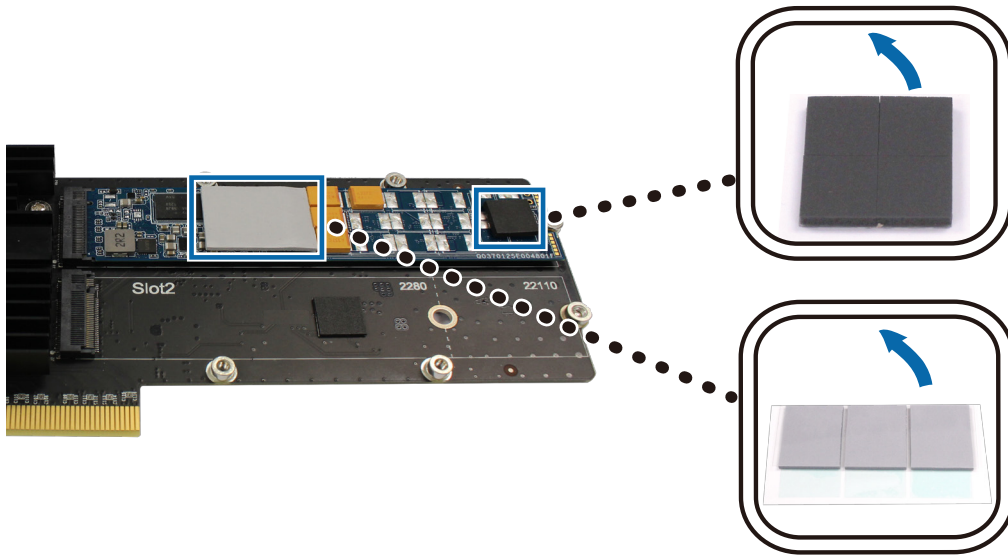
a Insert SNV3500-400G into the slot. Make sure the card is fully inserted.



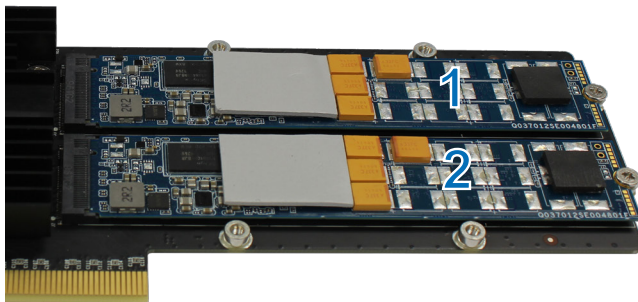
b Tighten SNV3500-400G with a screw.



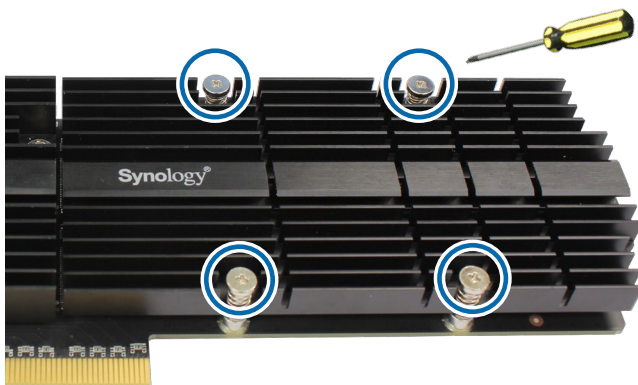
- c Remove the protective film from the thermal pad and attach the thermal pad to the controller of SNV3500-400G. Attach the rubber next to the screw pillar.



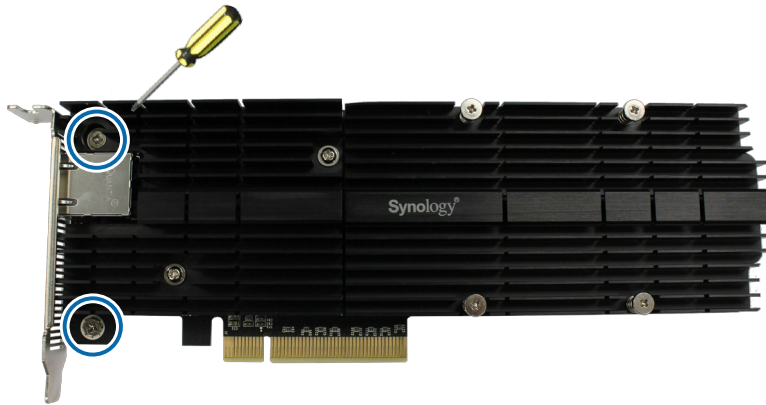
- d Repeat previous three steps if installing another M.2 SSD is needed. Slots are numbered as shown below.



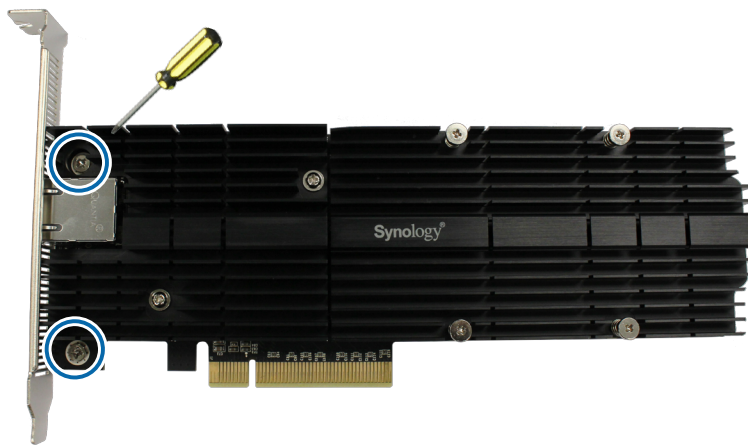
- e Tighten the heatsink with four screws. Please make sure the heatsink is firmly attached to the adapter card to ensure the smooth running of the M.2 SSD.



- 3 Replace the low-profile bracket with a full-height bracket if needed.
  - a Remove the screws that secure the low-profile bracket.



- b Tighten the full-height bracket with two screws.



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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.

**4.3 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 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