

Expansion Unit RX1217sas

Hardware Installation Guide

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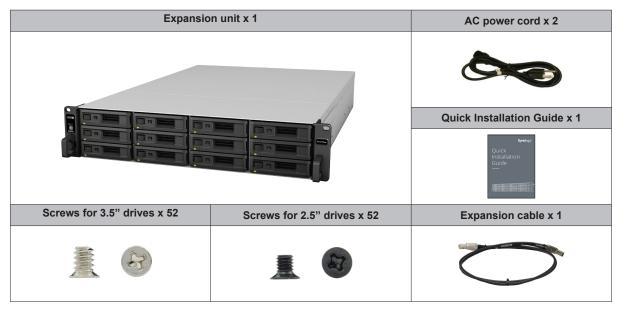
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Before You Start

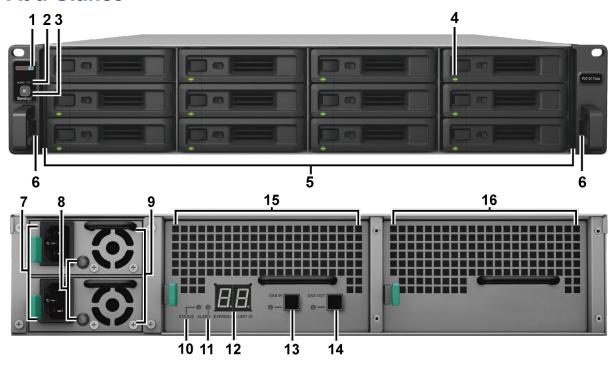
Thank you for purchasing Synology RX1217sas expansion unit! Before setting up your new expansion unit, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your Synology product.

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

Package Contents



At a Glance



No.	Article Name	Location	Description	
1	Power Indicator		Displays the power status. ¹	
2	ALERT Indicator		Displays warnings regarding fan or temperature status. For more information, please see "Appendix B: LED Indicator Table".	
3	Beep Off Button	Front	Press to deactivate the beeping sound that is emitted when a malfunction occurs.	
4	Drive Status Indicators	TTOTIC	Displays the status of drives. For more information, please see "Appendix B: LED Indicator Table".	
5	Drive Tray		Install drives (hard disk drives or solid state drives) here.	
6	Rail Kit Release Tab		Push in and hold to release the Synology NAS server from the rail kit lock. ²	
7	Power Port		Connect power cords here.	
8	PSU Indicator and Beep Off Button		Displays the status of the power supply unit (PSU). Press to deactivate the beeping sound that is emitted when a malfunction occurs. For more information, please see "Appendix B: LED Indicator Table".	
9	PSU Fan		Disposes of excess heat and cools the PSU.	
10	STATUS Indicator		Displays the status of the system. For more information, please see "Appendix B: LED Indicator Table".	
11	ALERT Indicator	Back	Displays warnings regarding fan or temperature. For more information, please see "Appendix B: LED Indicator Table".	
12	Expansion Unit ID Indicator		Indicates the ID number of the expansion unit.	
13	SAS IN Port and Indicator		Connects to the SAS OUT port of a Synology NAS server or another expansion unit. For more information, please see "Connect with Synology NAS Server".	
14	SAS OUT Port and Indicator		Connects to the SAS IN port of another expansion unit. For more information, please see "Connect with Synology NAS Server".	
15	SAS Module		Connects to a Synology NAS server or the SAS module of another expansion unit. For more information, please see "Connect with Synology NAS Server".	
16	Fan Module		Disposes of excess heat and cools the expansion unit.	

¹ RX1217sas automatically powers on when the power cord is plugged into the power source. For more information, please see "Connect with Synology NAS Server".

² For more information about the rail kit installation, please refer to the Quick Installation Guide that comes with the rail kit.

Safety Instructions



Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.



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.



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 screwdrive
- At least one 3.5" or 2.5" SAS / 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

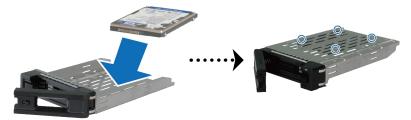
1 Open the drive tray.



- **a** Find the small button located on the left side of the drive tray handle. Press the button down, and the drive tray handle will pop out.
- **b** Pull the drive tray handle out as illustrated above.
- 2 Load drives in the drive trays.
 - For 3.5" drives: Place the drive in the drive tray. Turn the tray upside down and tighten screws into the four spots indicated below to secure the drive.



• For 2.5" drives: Place the drive in the drive tray. Turn the tray upside down and tighten screws into the four spots indicated below to secure the drive.



3 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.

- 4 Push the handle inward to secure the drive tray.
- **5** Push the switch on the drive tray handle to the left to lock the drive tray.



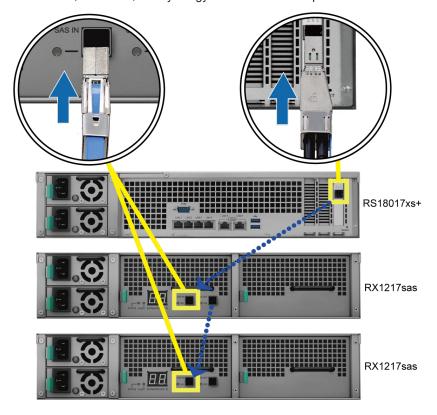
- 6 Repeat the steps above to assemble the other drives you have prepared.
- 7 Drives are numbered as shown below.



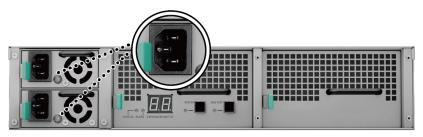
Note: If you want to create a RAID volume, we recommend that all installed drives are of the same size to make the best use of drive capacity.

Connect with Synology NAS Server

1 Connect one end of the expansion cable to the SAS OUT port of the Synology NAS server and the other to the SAS IN port of RX1217sas. Please make sure that the release band (in blue) of the cable faces rightward when plugging into the Synology NAS server, and that of the cable faces upward when plugging into RX1217sas; otherwise, the Synology NAS server and expansion unit will not be correctly connected.

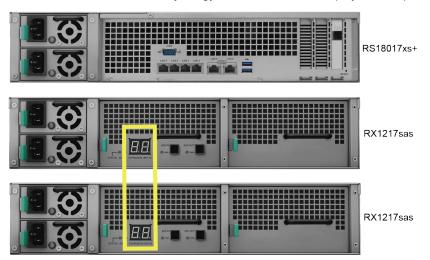


2 Connect one end of the power cord(s) to the power port of RX1217sas, and the other to the power outlet(s). RX1217sas will automatically power on once the power cords are correctly connected.



Note: Your RX1217sas comes equipped with a redundant power supply system, allowing two power cords to be connected. The system may be powered on with only one power cord, but we recommend using two power cords to avoid unexpected power failures.

3 Press the power button on the front panel to power on the Synology NAS server. The Expansion Unit ID of RX1217sas connected to the Synology NAS server will be displayed in sequence on the back panel.



Note:

- 1. Even with the Synology NAS server and expansion unit(s) powered on, you can still connect them with one or more RX1217sas if needed. To do so, repeat step 1 and 2 above to connect the expansion cables and power cords of the other expansion units. Your expansion units will automatically power on if they are correctly connected, and the Expansion Unit ID will be displayed accordingly after a few seconds (if DSM is installed in the Synology NAS server).
- 2. The actual number of expansion units that can be connected depends on the performance limitations and specifications of the Synology NAS server.

Maintenance

Replace Malfunctioning PSU

If a PSU or its fan malfunctions, please see the instructions below to replace the malfunctioning PSU.

1 Unplug the power cord from the PSU to be replaced (top: PSU1; bottom: PSU2).

Note:

- 1. By pressing the Beep Off button, you can silence the long beeping sound when you hear it.
- 2. RX1217sas supports component hot-swapping, but we recommend unplugging all power cables of the expansion unit before replacing any component.
- 2 Push the lever of the PSU at the back panel in the indicated direction.
- 3 Pull out the PSU from the expansion unit.



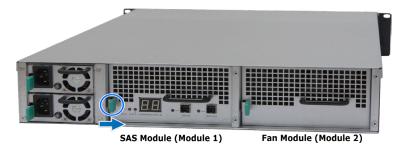
4 Prepare a new PSU, and push it back to the slot until you hear a click.

Replace Malfunctioning SAS / Fan Module

If a SAS / fan module malfunctions, please see the instructions below to pull out the SAS / fan module and replace the malfunctioning module.

To replace the malfunctioning SAS / fan module:

- 1 Unplug the expansion cables from the SAS / fan module on which the malfunctioning module is to be replaced.
- 2 Push the lever of the SAS / fan module at the back panel in the indicated direction. The modules are numbered as shown below.



3 Pull out the SAS / fan module from the expansion unit.



4 Prepare a new SAS / fan module, and push it back to the slot until you hear a click.

To replace the SAS module's malfunctioning fan:

1 Remove the malfunctioning fan by pulling it up from the module. The fans are numbered as shown below.



2 Prepare a new fan, align the arrow to point at the back panel as illustrated below, and insert it back into the fan slot.



3 Push the module back to the expansion unit until you hear a click.



Specifications

Item	RX1217sas
Compatible Drive Type	3.5" / 2.5" SAS / SATA x 12
Maximum Raw Capacity	120TB (12 x 10TB HDD)
Expansion Port	• SAS IN x 1
	• SAS OUT x 1
Size (II v M v D) (mm)	88 x 430.5 x 692 (Not including rack mount kits)
Size (H x W x D) (mm)	88 x 482 x 724 (Including rack mount kits)
Weight (kg)	18
System Fan	4 x (60 x 60 x 51mm)
Agency Certification	• FCC Class A • CE Class A • BSMI Class A
	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
Power	Blue	Static	Powered on
Power	Off		Powered off
Front ALERT	Orange	Blinking	Fan failure / Over temperature
Front ALER1	Off		System normal
Deer ALEDT	Orange	Blinking	Fan failure / Over temperature
Rear ALERT	Off		System normal
De or CTATUC	Green	Blinking	Powered on
Rear STATUS	Off		Powered off
Drive Status Indicator	0	Static	Drive ready and idle
	Green	Blinking	Accessing drive
(on tray)	Red	Static	Drive error / Port disabled ¹
,	Off		No internal drive
PSU Indicator	Green	Static	Power supply unit normal
PSO Indicator	Off		Power supply unit off
SAS IN / OUT	Green	Static	Synology NAS server / expansion unit connected
3A3 IIV / OUT	O	off	Synology NAS server / expansion unit disconnected

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 Synology NAS server 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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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.