Synology®

Expansion Unit RX1217/RX1217RP

Hardware Installation Guide

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Before You Start

Thank you for purchasing Synology RX1217/RX1217RP 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

Expansion unit x 1		AC power cord (RX1217: x 1; RX1217RP: x 2)
		
Screws for 3.5” drives x 52	**Screws for 2.5” drives x 52**	**Expansion cable (InfiniBand) x 1**
		

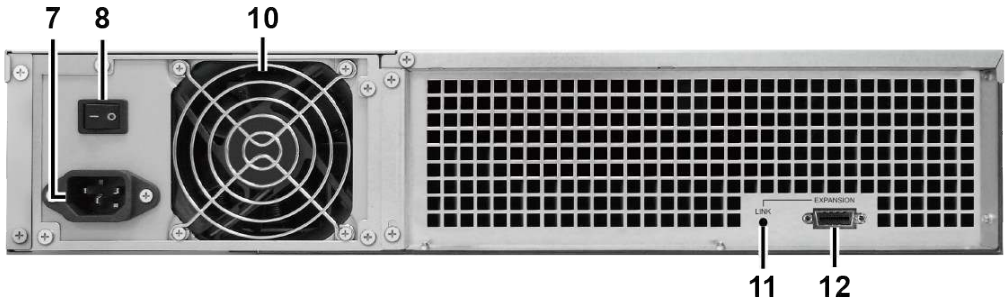
Expansion Unit at a Glance

Front

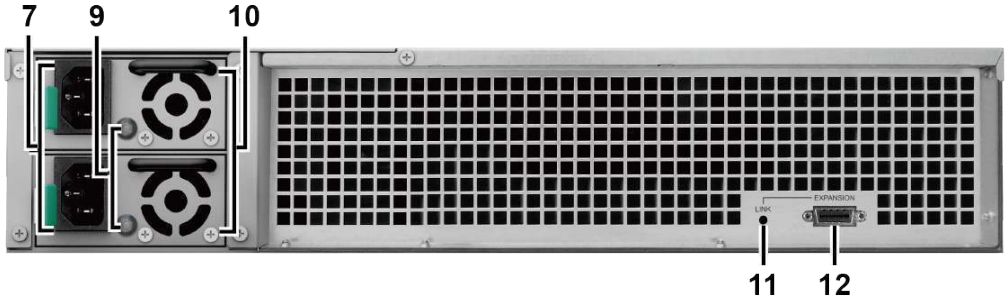


Back

RX1217



RX1217RP

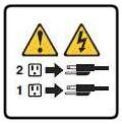


No.	Article Name	Location	Description
1	Power Button and Indicator	Front	Press to manually power on the expansion unit. For more information, please see "Appendix B: LED Indicator Table".
2	ALERT Indicator		Displays warnings regarding fan or temperature status. For more information, please see "Appendix B: LED Indicator Table".
3	Beep Off Button		Press to deactivate the beeping sound that is emitted when a malfunction occurs.
4	Drive Status Indicator		Displays the status of drives. For more information, please see "Appendix B: LED Indicator Table".
5	Drive Tray		Install drives here.
6	Rail Kit Release Tab		Push in and hold to release the RackStation from the rail kit lock.[1]
7	Power Port	Back	Connect power cords here.
8	PSU On/Off Switch		Press to switch the power supply unit (PSU) on or off.
9	PSU Indicator and Beep Off Button		Displays the status of the PSU. Press to deactivate the beeping sound that is emitted when a malfunction occurs. For more information, please see "Appendix B: LED Indicator Table".[2]
10	PSU Fan		Disposes of excess heat and cools the PSU.
11	LINK Indicator		Displays the status of the link between the expansion unit and the main RackStation unit. For more information, please see "Appendix B: LED Indicator Table".
12	EXPANSION Port		Connect the expansion unit to a Synology RackStation here. For compatible models, please visit **www.synology.com**.

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

[2] When RX1217RP wakes up from the deep sleep mode, two beeping sounds will be emitted (one sound per PSU indicator).

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.

Chapter 2

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 Open the drive tray.

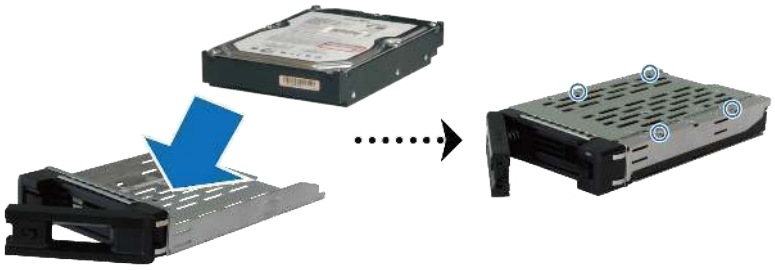


a Find the small button located on the left side of the drive tray handle. Press the button down, and the drive tray handle will pop out.

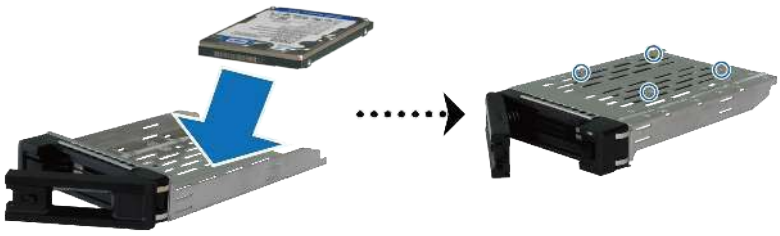
b Pull the drive tray handle out as illustrated above.

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.

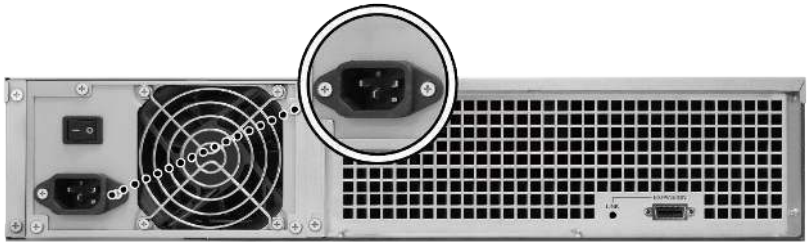
7 Drives are numbered as shown below.



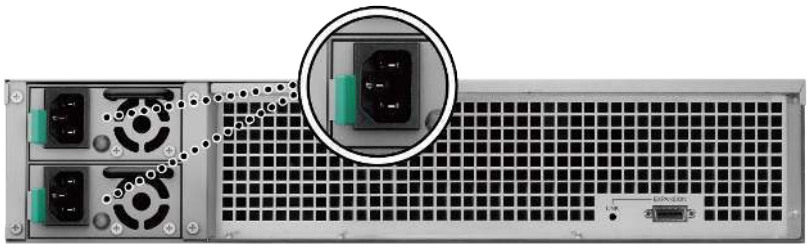
Note: If you want to create a RAID volume, we recommend that all installed drives are of the same size to make the best use of drive capacity.

Connect with Synology RackStation

1 Connect one end of the power cord to the power port of RX1217/RX1217RP, and the other to the power outlet.



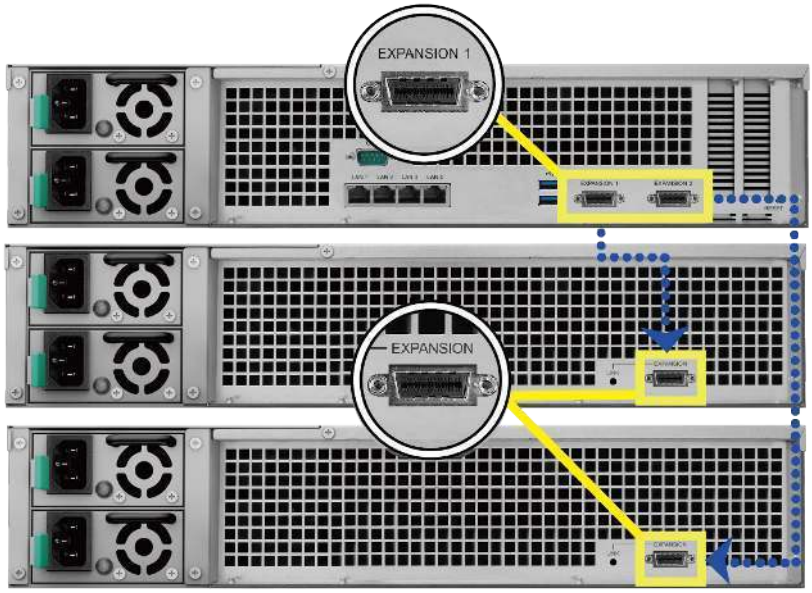
RX1217



RX1217RP

Note: RX1217RP 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.

2 Connect one end of the expansion cable to the expansion port of RX1217/RX1217RP and the other to the expansion port of the RackStation.



RS3617RPxs

RX1217RP

RX1217RP

3 For RX1217, press the PSU on/off switch located on the back panel to switch the PSU on. Press the power buttons on the front panel to power on the RackStation and RX1217/RX1217RP.

Note:

1. Once you power on/off the RackStation unit, your expansion unit(s) will automatically power on/off one by one if they are correctly connected.
2. Even with the RackStation and expansion unit powered on, you can connect the RackStation to another RX1217/RX1217RP if needed. To do so, repeat step 1 and 2 above to connect the expansion cable and power cords of the other expansion unit. Your expansion unit will automatically power on if it is correctly connected.

Confirm Connection and Manage Storage Spaces

1 Log into the DiskStation Manager (DSM) of the RackStation unit.

2 Go to **Storage Manager** > **Overview** to confirm the expansion unit(s) are successfully connected.

3 Go to **RAID Group** on the left panel to manage storage space creation or expansion.

- If you want to create a new RAID group, click **Create** and follow the wizard to complete the creation.
- If you want to expand an existing RAID group, select the RAID group you want to expand from the group list, click **Manage** > **Add Disk** and follow the wizard to complete the expansion.

4 Once the RAID group is ready, go to **Volume** on the left panel to manage the volumes.

- If you want to create a new volume on the expansion, click **Create** and follow the instructions of the wizard.
- If you want to expand an existing volume, select the volume you want to expand from the volume list, click **Edit**, and follow the instructions of the wizard.

5 For more information about volume management, please see **DSM Help** > **Storage Manager**.

Limitations: Before using this expansion unit, please see the limitations below.

1. RX1217/RX1217RP expansion unit can be linked to only one Synology RackStation at a time.
2. The data of some DSM packages can be stored on the expansion unit only if you create an expanded volume with it. The data cannot be stored on the expansion unit if an independent volume has been created on it.
3. Drives previously used in a Synology RackStation are not readable when directly inserting them into this expansion unit, and vise versa.

Learn More

Congratulations! Your expansion unit is set up now. For more information or online resources, please visit **www.synology.com**.

Chapter 3

Maintenance

Replace Malfunctioning Fan

If a system cooling fan malfunctions, please see the instructions below to open the expansion unit and replace the malfunctioning fan.

1 Press the small buttons located on the sides of the expansion unit.



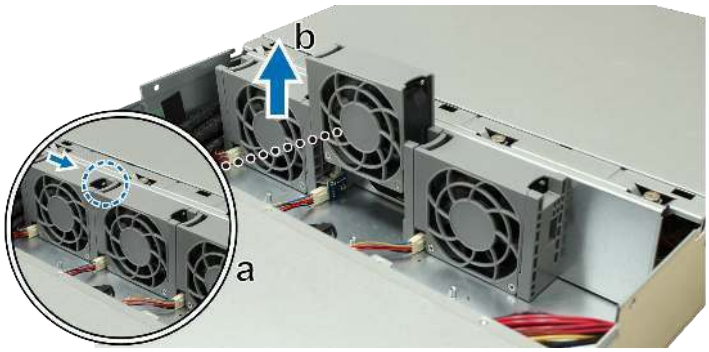
2 Lift to remove the fan cover.



3 Cooling fans are numbered as below:



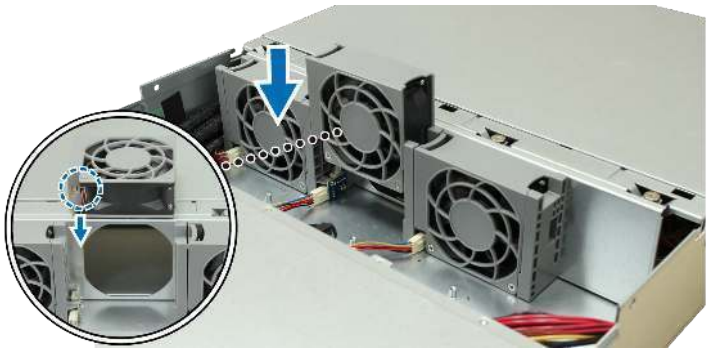
4 Remove the malfunctioning fan.



a Find the malfunctioning fan. Press and hold the tab located on the left of the fan.

b Lift the fan upward to remove it.

5 Slide the new cooling fan into the expansion unit. Make sure the fan is aligned properly as illustrated below.



Replace Malfunctioning PSU for RX1217RP

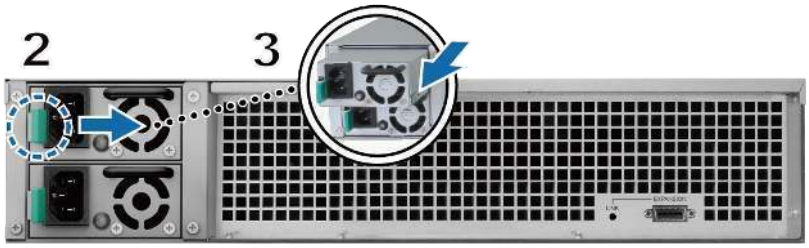
If a PSU or its fan malfunctions, please see the instructions below to replace the malfunctioning PSU.

1 Unplug the power cord from the PSU to be replaced.

> ***Note:*** By pressing the **Beep Off** button, you can silence the long beeping sound when you hear it.

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.

Specifications

Item	RX1217/RX1217RP
Compatible Drive Type	3.5” / 2.5” SATA III / SATA II x 12
Maximum Internal Raw Capacity	96TB (12 x 8TB HDD)
Expansion Port	1 x InfiniBand
Hot Swappable Drive	Yes
Size (H x W x D) (mm)	RX1217: 88 x 430.5 x 664; RX1217RP: 88 x 430.5 x 692
Weight (kg)	RX1217: 12.7; RX1217RP: 13.4
System Fan	3 x (80 x 80 x 32mm)
Power Fan	RX1217: 1 x (80 x 80mm); RX1217RP: 2 x (38 x 38mm)
Power Recovery	Synchronized with RackStation
Agency Certification	• FCC Class A • CE Class A • BSMI Class A
Environment Requirements	• Line voltage: 100V to 240V AC • Frequency: 50/60Hz • 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
	Off		Powered off
ALERT	Orange	Blinking	Fan failure / Over termperature
	Off		System normal
Drive Status Indicator (on tray)	Green	Static	Drive ready and idle
		Blinking	Accessing drive
	Red	Static	Drive error
	Off		No internal drive
PSU Indicator*	Green	Static	Power supply unit normal
	Off		Power supply unit off
LINK	Green	Static	Connected to Synology RackStation
	Off		Not connected to Synology RackStation

* RX1217RP only.

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

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Section 2. Limited Warranty and Remedies

2.1 Limited Warranty. Subject to Section 2.6, Synology warrants to Customer that each Product (a) will be free of material defects in workmanship and (b) under normal use will perform substantially in accordance with Synology's published specifications for the Product during the Warranty Period. Synology warrants the Software as set forth in the accompanying end user license agreement provided with the Product, if any. Synology provides no warranty to Refurbished Product sold as "as is" or with "no warranty" on Online Store.

2.2 Exclusive Remedy. If Customer gives notice of noncompliance with any of the warranties set forth in Section 2.1 within the applicable Warranty Period in the manner set forth below, then, upon verification of the noncompliance by Synology, Synology will, at Synology's option: (a) use commercially reasonable efforts to repair the Product, or (b) replace the noncomplying Product or part thereof upon return of the complete Product in accordance with Section 2.3 The foregoing sets forth Synology's entire liability and Customer's sole and exclusive remedy for any breach of warranty under Section 2.1 or any other defect or deficiency in the Product. Customer will reasonably assist Synology to diagnose and validate any nonconformity with the Product. The warranty set forth in Section 2.1 does not include: (1) any warranty relating to the Software; (2) physical installation or removal of the Product from Customer's site; (3) visits to Customer's site; (4) labor necessary to effect repairs or replace defective parts other than during Synology's or its contracted service providers' normal local business hours, exclusive of weekends and service providers' holidays; (5) any work with any third party equipment or software; (6) any warranty of the hard disk if installed by Customer or any other third party; or (7) any warranty of compatibility with the hard disk.

2.3 Return. Any Product returned by Customer under Section 2.2 must be assigned a Return Merchandise Authorization ("RMA") number by Synology before shipment and must be returned in accordance with Synology's then current RMA procedures. Customer may contact any authorized Synology distributor or reseller or Synology Support to obtain assistance in obtaining an RMA, and must provide proof of purchase and product serial number when asking for such assistance. For warranty claims, Customer must return the complete Product to Synology in accordance with this Section 2.3 to be eligible for coverage under this Warranty. Any Product returned without an RMA number, or any Product that has been disassembled (except under the direction of Synology) will be refused and returned to Customer at Customer's expense. Any Product that has been assigned a RMA number must be returned in the same condition as it was received from Synology to the address designated by Synology, freight pre-paid, in packaging sufficient to protect the contents thereof and with the RMA number prominently displayed on the outside of the box. Customer is responsible for insurance and risk of loss with respect to returned items until they are properly received by Synology. A Product issued a RMA number must be returned within fifteen (15) days after issuance of the applicable RMA number.

2.4 Replacement by Synology. If Synology elects to replace any Product under this Warranty set forth in Section 2.1, then Synology will ship a replacement Product at Synology's expense via the shipping method selected by Synology after receipt of the nonconforming Product returned in accordance with Section 2.3 and validation by Synology that the Product does not conform to the warranty. In some countries, Synology may at its own discretion apply the Synology Replacement Service to certain Products, through which Synology will ship a replacement Product to Customer before its receipt of the nonconforming Product returned by Customer ("Synology Replacement Service").

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.

2.6 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 AND DISCLAIMS, ALL OTHER 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 PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE; (C) CLAIM OF INFRINGEMENT OR MISAPPROPRIATION; OR (D) CLAIM IN 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 STORED ON THE PRODUCT. SOME 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.

3.3 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 4. Miscellaneous

4.1 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.

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.