



RX1211/RX1211RP User's Guide

For Synology RackStation
RS2211+/RS2211RP+

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Get Started with RX1211/RX1211RP

Congratulations on your purchase of Synology RX1211/RX1211RP. This product is specially designed for the storage expansion of Synology RackStation RS2211+/RS2211RP+. This user's guide will guide you through the installation.

Package Contents

Before installation, please check the package contents to verify that you have received the items below.

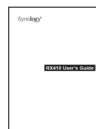
Main Unit x 1



**AC Power Cord
(RX1211: x1; RX1211RP: x2)**



User's Guide x 1



**Screws for 3.5"
Hard Drives x 56**



**Screws for 2.5"
Hard Drives x 56**



**Expansion Cable
(Infiniband x 1)**



Hardware Specifications

Internal HDD	12X SATA(II)
EXPANSION Port #	1X Infiniband
Max Capacity (Internal HDD)	12X 3TB
Hot Swappable HDD	Yes
Size (HxWxD) (mm)	88x445x570mm
Weight	RX1211: 11.9 kg; RX1211RP: 14.0 kg
System Fan	RX1211: 4X (80x80mm); RX1211RP: 4X (80X80MM)
Power Fan	RX1211: 1X (80x80mm); RX1211RP: 4X (80X80MM)
Power Recovery	Sync with server
AC Input Power Voltage	100V to 240V AC
Power Frequency	50 / 60Hz, Single Phase
Operating Temperature	5°C ~ 35°C (40°F ~ 95°F)
Storage Temperature	-10°C ~ 70°C (15°F ~ 155°F)
Relative Humidity	5% to 95% RH
Maximum Operating Altitude	10,000 feet
Certification	FCC Class A, CE Class A

Operating Requirements

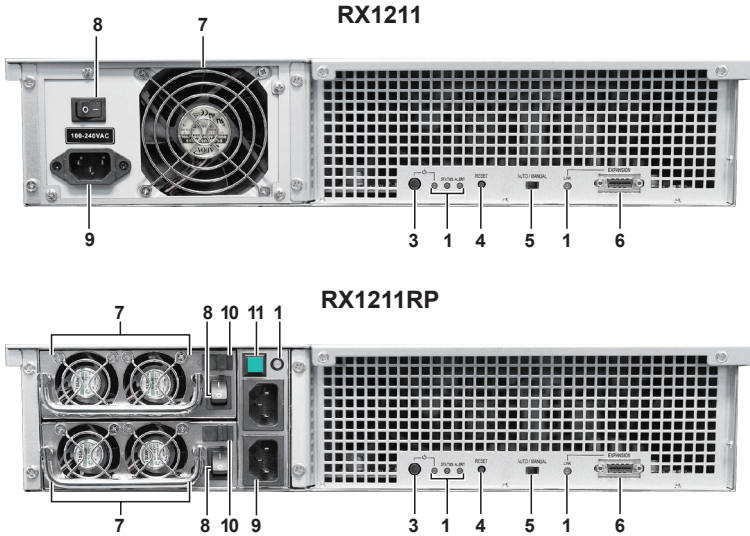
Synology RackStation	RS2211+/RS2211RP+ with Synology DSM 3.1 and onwards
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Appearance

Front View



Back View



Article Name	Description
1 LED Indicators	The LED indicators are used to display the status of the system. For complete details, please refer to the next table: LED Behavior .
2 Hard Drive Trays	The hard drive trays are designed for loading the hard drives with RX1211/RX1211RP.
3 POWER Button	The POWER button is used to turn RX1211/RX1211RP on or off. Press and hold the button for 7 seconds to shut down RX1211/RX1211RP. Note: The POWER button only works when you slide the AUTO/MANUAL switch (No. 5) to MANUAL.
4 RESET Button	The RESET button is used to restore the settings to the factory default.
5 AUTO/MANUAL Switch	The AUTO/MANUAL switch is used to enable or disable automatic power on/off. If it is set to AUTO, RX1211/RX1211RP will be turned on or off automatically when the connected Synology RS2211+/RS2211RP+ powers on or off.
6 EXPANSION Port	The EXPANSION port is used to connect RX1211/RX1211RP to RackStation.
7 Fan	The power fans are built to exhaust waste heat out of the power supply. The system fans (inside RX1211/RX1211RP) are built to exhaust waste heat out of RX1211/RX1211RP. If the fan is not working, RX1211/RX1211RP will “beep” every few seconds.

	Article Name	Description
8	Power Supply On/Off Switch	The power supply on/off switch is used to turn on/off the power supply.
9	Power Port	The power port is where you connect the power cord to RX1211/RX1211RP.
10	Power Supply Safety Latch	The power supply safety latch is used to secure the power supply in place.
11	Beep Off Button*	The beep off button is used to turn off the beeping sound that warns of power failure.

* RX1211RP only.

LED Behavior

LED	Behavior	Description
POWER (Back)	Solid Green	Power is on
	Off	Power is off
LINK	Solid Green	Synology RS2211+/RS2211RP+ is connected
	Off	Synology RS2211+/RS2211RP+ is disconnected
ALERT	Flashing Orange	System fan is not working
	Off	System fan is functioning
STATUS	Solid Green	RAID is ready
	Flashing Green	RAID is degraded
	Off	RAID is not ready or crashed
Activity (On Tray)	Flashing Green	Disk is being accessed
Hard Disk Status (On Tray)	Solid Green	Disk is ready and idle
	Solid Orange	Read/write or other errors are encountered
	Off	No internal disk is found

Safety Instructions

To use your Synology product safely, please follow these instructions and warnings at all time.



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



Do not place the Synology product close to any liquid.



Before cleaning, unplug the power cord first. Wipe Synology product with damp paper towels. Do not use chemical or aerosol cleaners to clean it.



Do not place the Synology product on a cart, table, or desk, which is not stable to avoid the product from falling over.



The power cord must plug in to the right 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.

Set Up RX1211/RX1211RP

Tools and Parts for Hard Disk Installation

- A screwdriver
- At least one 3.5" or 2.5" SATA hard disk
(Please visit www.synology.com for compatible hard disk models.)

Warning: If you install a hard disk that contains data, system will format the hard disk and erase all data. If you need the data in the future, please back it up before installation.

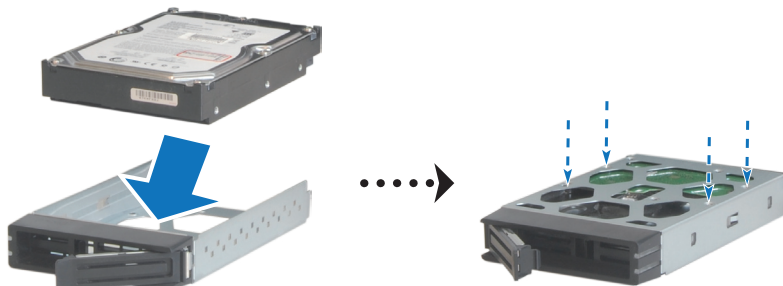
Install Hard Disks

- 1 Pull the clip in the direction as indicated below to remove the hard drive tray.

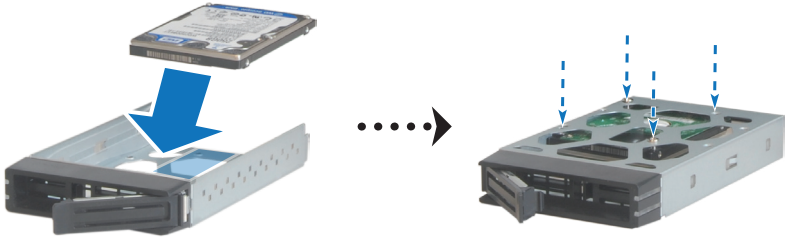


- 2 Load the hard disk in the hard drive tray.

- **For 3.5" Hard Disk:** Place the hard disk in the hard drive tray, and then tighten the screws to secure the hard disk.



- **For 2.5" Hard Disk:** Place the hard disk in the hard drive tray, turn the tray upside down, and then tighten the screws to secure the hard disk.



- 3 Insert the loaded hard drive tray into the empty hard drive bay.



Important: Make sure the tray is pushed in all the way. Otherwise, the hard disk might not be able to function properly.

- 4 Push the clip to fix the hard disk tray.
- 5 Repeat the steps above to assemble all hard disks you have prepared.

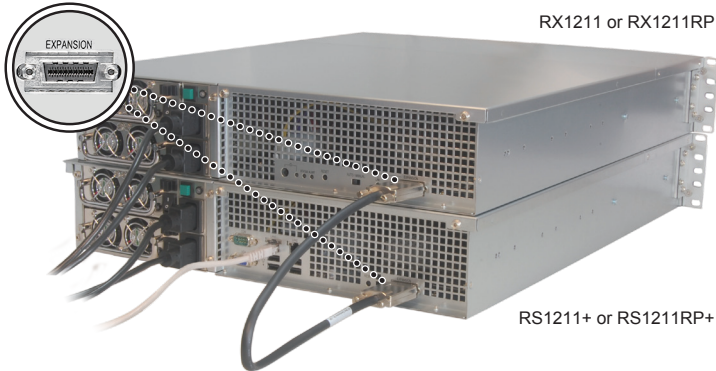
Note: If you want to set up a RAID set, it is recommended that all installed hard disks are of the same size to make the best use of hard disk capacity.

Connect with Synology RS2211+/RS2211RP+

- 1 Connect one end of the power cord(s) to the power port of RX1211/RX1211RP, and the other to the power outlet(s).



- 2 Connect one end of the expansion cable to RX1211/RX1211RP, and the other to RS2211+/RS2211RP+.



- 3 Turn on RX1211/RX1211RP:

- **If the AUTO/MANUAL switch is set to AUTO**, RX1211/RX1211RP will be turned on or off automatically when the connected RackStation powers on or off.



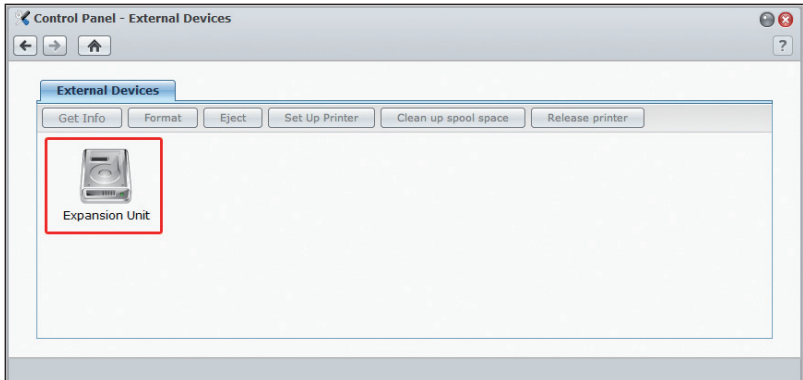
- **If the *AUTO/MANUAL* switch is set to *MANUAL***, press the **POWER** button to turn on RX1211/RX1211RP.



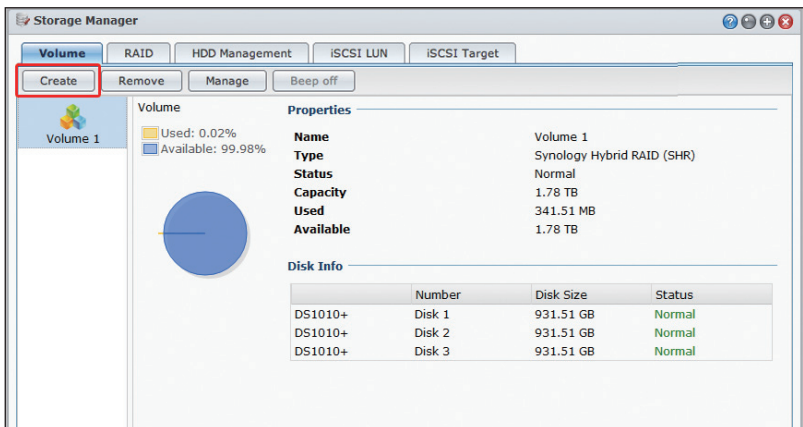
Note: To prevent unexpected volume crash, it is recommended that you set the AUTO/MANUAL switch to AUTO.

Work with RS2211+/RS2211RP+

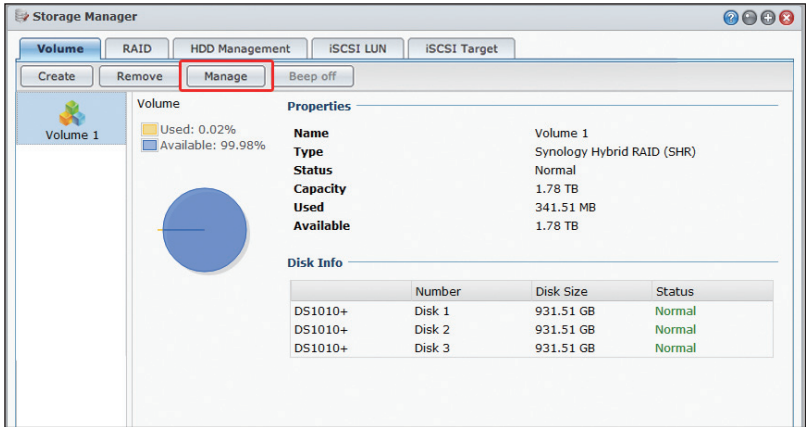
- 1 Log in to DiskStation Manager with a web browser. Go to **Main Menu > Control Panel > External Devices** to confirm RX1211/RX1211RP is connected to your RS2211+/RS2211RP+.



- 2 Go to **Main Menu > Storage Manager** to manage RX1211/RX1211RP for storage creation or expansion.
 - **If you want to create a new volume with RX1211/RX1211RP**, click **Create** and follow the Volume Creation Wizard to complete the creation.



- **If you want to expand the existing volume with RX1211/RX1211RP,** select the volume you want to expand from the volume list, click **Manage**, and follow the Volume Manager Wizard to complete the expansion.



For detailed information about volume management, go to **Main Menu > Storage Manager** and see the help page by clicking the **Help** button at the top-right corner.

Limitations: Before starting to use RS2211+/RS2211RP+ with RX1211/RX1211RP, please see the following limitations of RX1211/RX1211RP.

- RX1211/RX1211RP can be paired with only one RS2211+/RS2211RP+.
- The data of applications (such as Photo Station and Audio Station) can be stored on RX1211/RX1211RP only if you create an expanded volume with it. They will not be stored on RX1211/RX1211RP if you create a new volume with it.
- Hard drives previously used in RS2211+/RS2211RP+ will not be readable by directly inserting them into RX1211/RX1211RP, and vice versa.

Learn More

Congratulations! Your RX1211/RX1211RP is set up now. For more information or online resources about RX1211/RX1211RP, please visit www.synology.com.

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2.5 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 2.4 and validation by Synology that the Product does not conform to the warranty. Replacement Product will be new or serviceably used, comparable in function and performance to the original Product and warranted for the remainder of the original Warranty Period or thirty (30) days after it is shipped to Customer, whichever period is longer. Any Product found by Synology to be non-defective will be returned to Customer.

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2.7 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.

2.8 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: (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 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.

