



RX1213sas User's Guide

For Synology RackStation

RS10613xs+

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Get Started with RX1213sas

Congratulations on your purchase of Synology RX1213sas. This product is specially designed for the storage expansion of Synology RackStation RS10613xs+. 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.

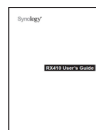
Main Unit x 1



AC Power Cord x2



User's Guide x 1



**Screws for 3.5"
Hard Drives x 52**



**Screws for 2.5"
Hard Drives x 52**



SAS Cable x2



Hardware Specifications

Internal HDD	12X SATA(II), SATA (III) or SAS
EXPANSION Port #	4X (SAS-IN X2, SAS-OUT X2)
Max Capacity (Internal HDD)	12X 4TB
Hot Swappable HDD	Yes
Size (HxWxD) (mm)	88x445x570mm
Weight	14.385 kg
System Fan	4X (80X80mm)
Power Fan	4X (40X40mm)
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, BSMI Class A

Operating Requirements

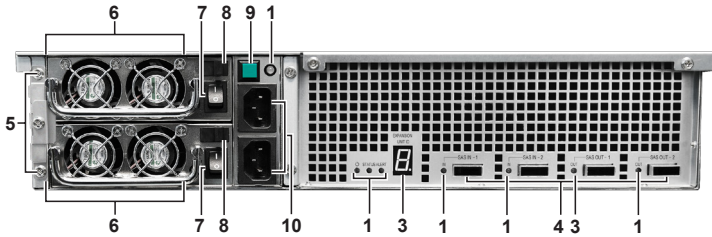
Synology RackStation	RS10613xs+ with DSM version upgraded to 4.0-2240 or onwards
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Appearance

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 RX1213sas.
3 Expansion Unit ID	One RX1213sas can be connected with up to eight RX1213sas. The expansion unit ID is used to display the number ID of connected RX1213sas, allowing you to distinguish the status of different RX1213sas at Main Menu > Storage Manager .
4 EXPANSION Port	The expansion port is used to connect RX1213sas to Synology RackStation.
5 Power Supply Safety Panel	Remove screws and panel before removing power supply.
6 Fan	The power fans are built to exhaust waste heat out of the power supply. The system fans (inside RX1213sas) are built to exhaust waste heat out of RX1213sas. If the fan is not working, RX1213sas will “beep” every few seconds.
7 Power Supply On/Off Switch	The power supply on/off switch is used to turn on/off the power supply.
8 Power Supply Safety Latch	The power supply safety latch is used to secure the power supply in place.
9 Beep Off Button	The beep off button is used to turn off the beeping sound that warns of power failure.
10 Power Port	The power port is where you connect the power cord to RX1213sas.

LED Behavior

LED	Behavior	Description
POWER (Back; )	Solid Green	Power is on
	Off	Power is off
Redundant Power-STATUS	Solid Green	Both redundant power supplies are working
	Flashing Green	1 redundant power supply or fan is not working
	Off	Power off Power Supply On/Off Switch is turned off ("O")
	Orange	Power Supply On/Off Switch is turned on ("-") but the RackStation is turned off
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
SAS IN/OUT	Solid Green	Another RX1213sas is connected
	Off	No RX1213sas is connected
Disk Status/Activity Indicator (On Tray)	Solid Green	Disk is ready and idle
	Flashing Green	Disk is being accessed
	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 RX1213sas

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.

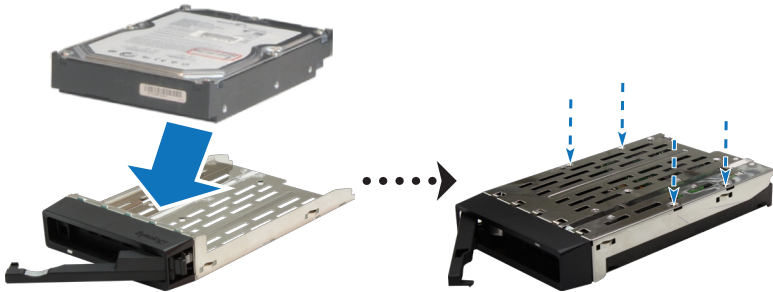
Install Hard Disks

- 1 Find the small button located on the hard drive tray handle. Press the button down and pull the hard drive tray handle out as illustrated below.



2 Remove the hard drive tray and place the hard disk as follows:

- **For 3.5" Hard Disk:** Place the hard disk in the hard drive tray. Turn the tray upside down and tighten screws into the four places indicated below to secure your hard disk.



- **For 2.5" Hard Disk:** Place the hard disk in the hard drive tray. Turn the tray upside down and tighten screws into the four places indicated below to secure your hard disk.



3 After securing the hard disk to the hard drive tray, insert the 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.

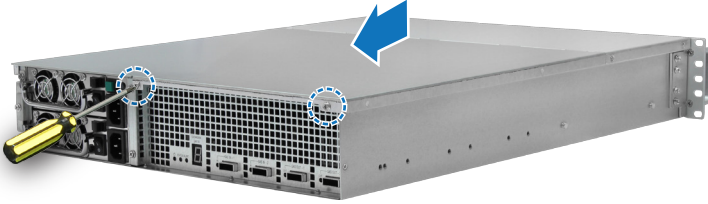
4 Push the hard drive tray handle to secure the hard drive tray.

5 Repeat the steps above to install all prepared hard disks.

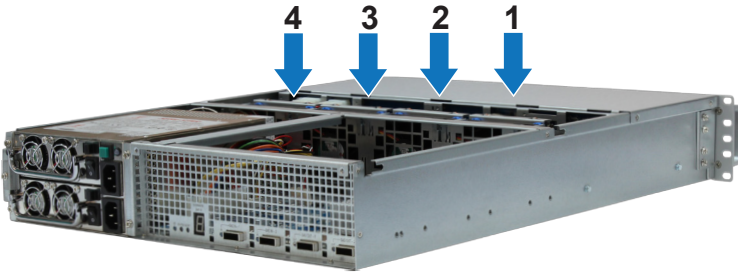
Note: If you want to set up a RAID configuration, we recommended all installed hard disks be the same size to guarantee the best usage of hard disk capacity.

Replace a Malfunctioning Cooling Fan

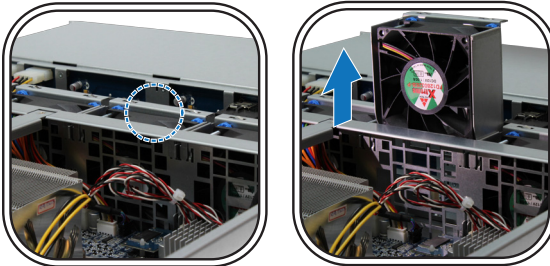
- 1 Shut down your RX1213sas, and disconnect all connected cables to prevent any possible damage.
- 2 Remove the two screws located on the back of your RX1213sas. Then pull the top cover in the direction indicated below.



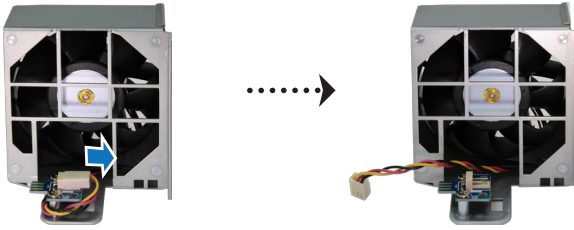
- 3 Fans are numbered as follows:



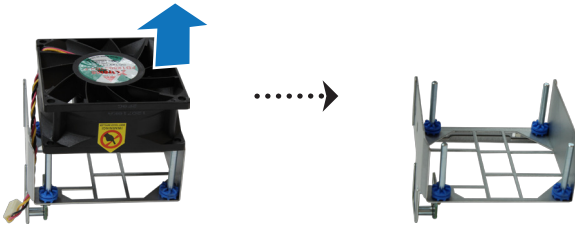
- 4 Find the malfunctioning cooling fan. Lift the fan upward to remove.



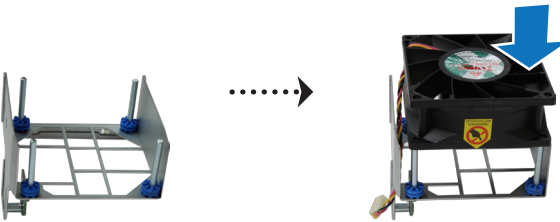
5 Apply firm pressure to the power plug and slide it off the power port as shown below.



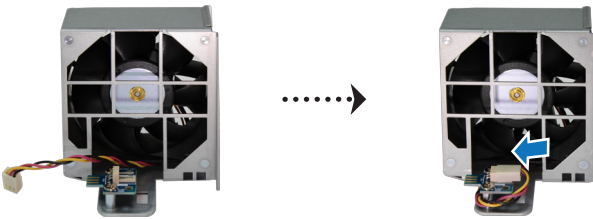
6 Remove the malfunctioning fan from the fan casing.



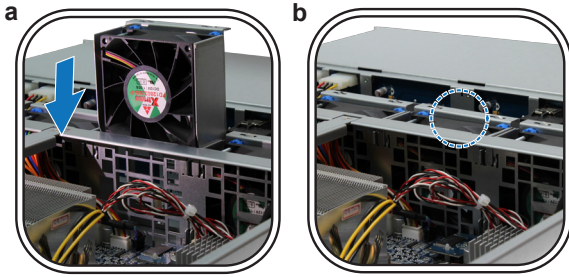
7 Slide a new cooling fan into the casing.



8 Apply firm pressure and slide the power cord onto the power port.



9 Slide the new cooling fan unit into your RX1213sas. Make sure the power port is aligned properly.



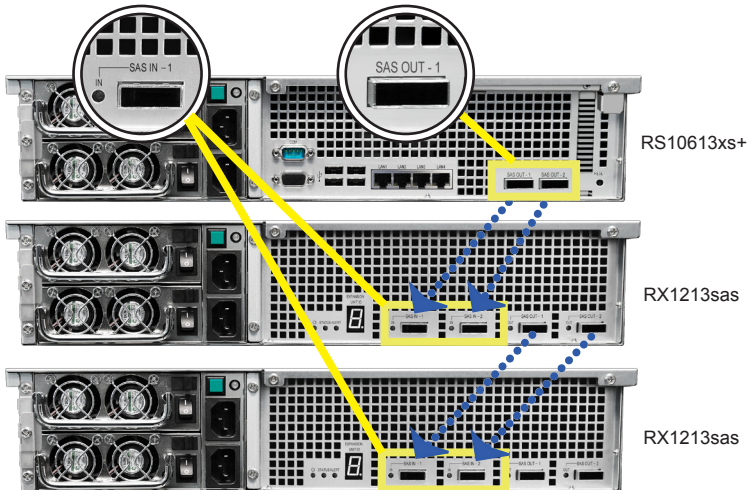
Connect with Synology RS10613xs+

- 1 Connect one end of the power cord(s) to the power port of RX1213sas and the other to the power outlet(s).



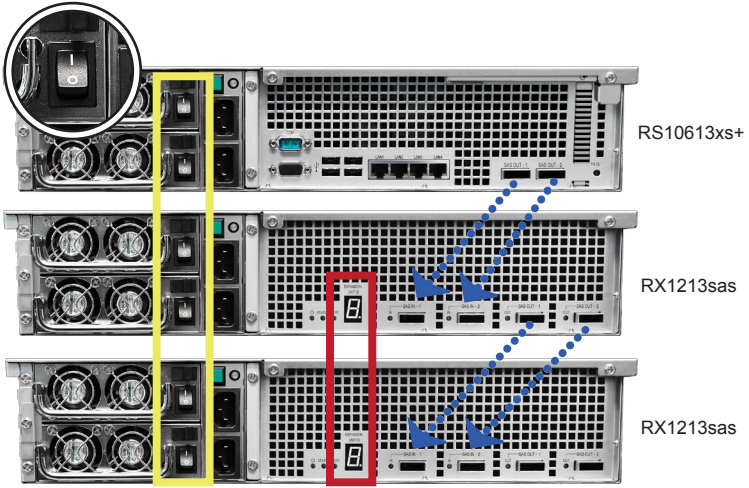
Note: Your RX1213sas as well as RS10613xs+ comes equipped with a redundant power supply system, allowing two power cords to be connected. The system may be power on with only one power cord, but we recommend using two power cords to avoid unexpected power failures.

- 2 Connect one end of the SAS cable (at least one) to the SAS-IN port of RX1213sas and the other to the SAS-OUT port of RS10613xs+.



Note: If you want to connect RX1213sas to another RX1213sas, connect one end of the SAS cable to the SAS-OUT port and the other to the SAS-IN port of another RX1213sas, or vice versa. For more information about how to start up RS10613xs+, please refer to the Quick Installation Guide that comes with your RackStation.

- 3 Turn on the power supply located on the back of both RS10613xs+ and RX1213sas ("-").



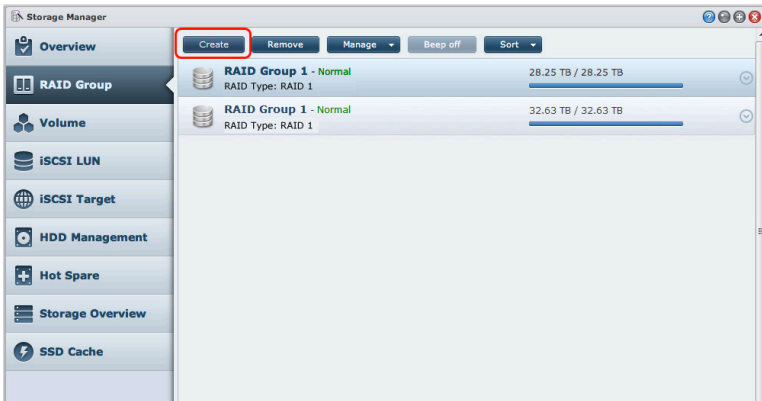
The Expansion Unit ID of RX1213sas connected to RS10613xs+ will be displayed here in sequence.

Work with RS10613xs+

- 1 Log in to DiskStation Manager with a web browser. Go to **Main Menu > Storage Manager > Storage Overview** to confirm RX1213sas is connected to your RS10613xs+.

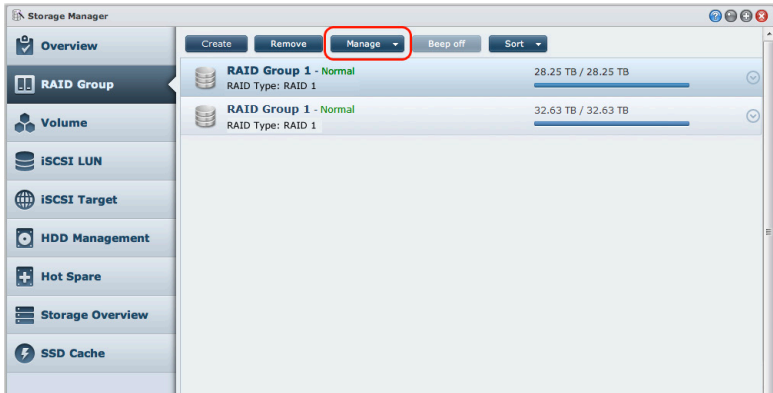


- 2 Go to **Main Menu > Storage Manager > RAID Group** to manage RX1213sas for storage creation or expansion.
 - **If you want to create a new RAID group with RX1213sas**, click **Create** and follow the wizard to complete the creation.

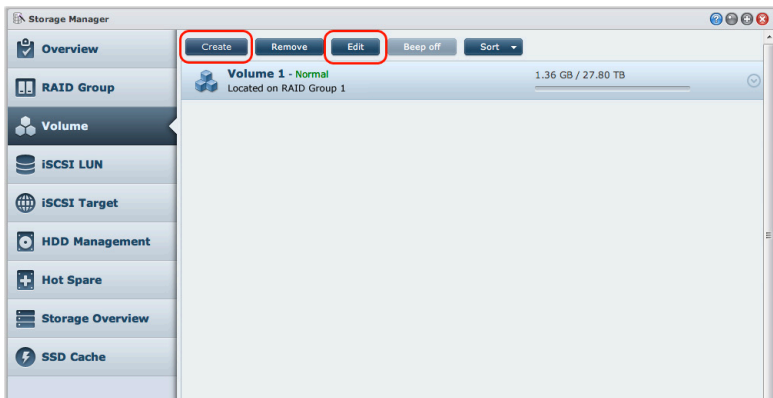


Note: Please make sure your RS10613xs+ has an existing RAID Group with allocatable space first before creating volumes with RX1213sas.

- If you want to expand a RAID group with RX1213sas, select the RAID group you want to expand from the group list, click **Manage** > **Expand** or **Add Disk** and follow the wizard to complete the expansion.



- 3 Once the RAID group is ready, go to **Volume** on the left panel and click **Create** to create volumes or click **Edit** to expand volumes.



For detailed information about volume or other types of storage 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 RS10613xs+ with RX1213sas, please see the following limitations of RX1213sas.

- RX1213sas can be paired with only one RS10613xs+.
- The data of applications (such as Photo Station and Audio Station) can be stored on RX1213sas only if you create an expanded volume with it. They will not be stored on RX1213sas if you create a new volume with it.
- Hard drives previously used in RS10613xs+ will not be readable by directly inserting them into RX1213sas and vice versa.

Learn More

Congratulations! Your RX1213sas is set up now. For more information or online resources about RX1213sas please visit www.synology.com.

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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 EULA relating to Synology's intellectual property rights.

Section 20. Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this EULA, the

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Category II Products and Category III Products at the Web Site. The failure to register a Product at the Web Site will not diminish the warranty rights set forth in Section 2.1. Synology is not responsible for Customer's failure to identify the manufacturing date of any Product.

2.3 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 2.4. 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.

2.4 Return. Any Product returned by Customer under Section 2.3 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 2.4 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.

2.5 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.

2.6 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.

2.7 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 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 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.

