



Synology RackStation RS814+/RS814RP+

Quick Installation Guide

Table of Contents

Chapter 1: Before You Start

Package Contents	3
Synology RackStation at a Glance.....	4
Safety Instructions	6

Chapter 2: Hardware Setup

Tools and Parts for Drive Installation	7
Install Drives.....	7
Add a RAM Module on RackStation	9
Start up the RackStation.....	11

Chapter 3: Install DSM on RackStation

Install DSM with Web Assistant.....	12
Learn More	13

Appendix A: Specifications

Appendix B: LED Indicator Table

Before You Start

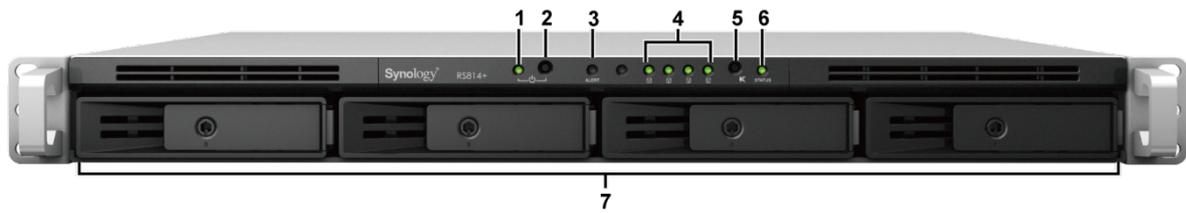
Thank you for purchasing this Synology product! Before setting up your new RackStation, please check the package contents to verify that you have received the items below. Also, make sure to read the safety instructions carefully to avoid harming yourself or damaging your RackStation.

Package Contents

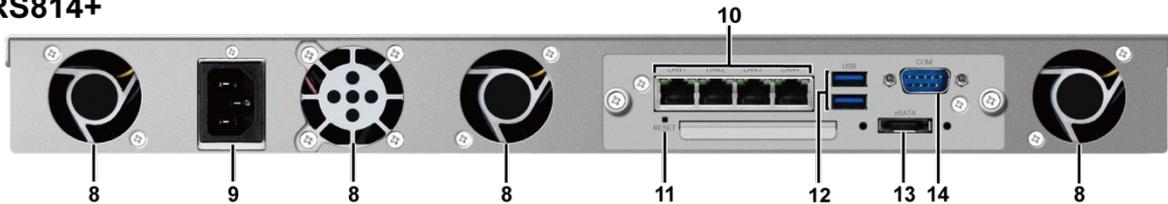
Main unit x 1		AC power cord x 1¹	
			
		Rack mount kit x 2	
		Hard drive tray key x 2	
		Screws for 3.5" hard drives x 20	Screws for 2.5" hard drives x 20
			
			

¹ AC power cord: RS814+ x1; RS814RP+ x2

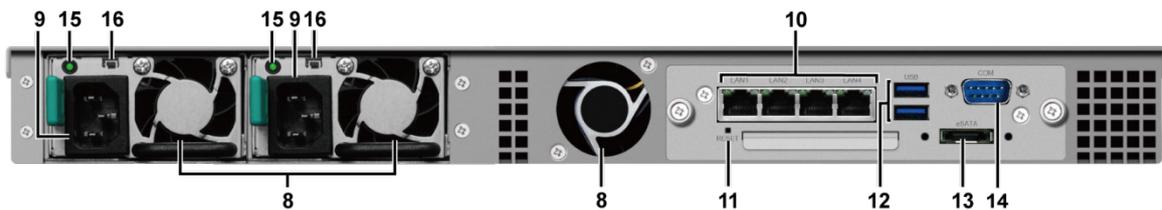
Synology RackStation at a Glance



RS814+



RS814RP+



No.	Article Name	Location	Description
1)	Power Indicator	Front Panel	Displays power status of the RackStation. For more information, see "Appendix B: LED Indicator Table".
2)	Power Button		1.Press to power on the RackStation. 2.To power off the RackStation, press and hold until you hear a beep sound and the power indicator starts blinking.
3)	Alert Indicator		Displays warnings regarding fan or temperature. For more information, see "Appendix B: LED Indicator Table".
4)	Disk Indicator		Displays the status of internal drives. For more information, see "Appendix B: LED Indicator Table".
5)	Beep off Button		Press to deactivate beep sound when malfunctions occur.
6)	Status Indicator		Displays the status of the system. For more information, see "Appendix B: LED Indicator Table".
7)	Drive Tray		Install drives here.
8)	Fan	Back Panel	Disposes of excessive heat and cools the system. If a fan malfunctions, the RackStation will emit a beeping sound.
9)	Power Port		Connect power cord here to supply power to your RackStation.
10)	LAN Port		Connect network cables here.
11)	RESET Button		1.Press and hold until you hear a beep sound to restore the default IP address, DNS server, and passwords for users belonging to the administrators group. 2.Press and hold until you hear a beep sound, then press and hold again until you hear three beep sounds to return the RackStation to "Not Installed" status so that DiskStation Manager can be reinstalled.
12)	USB 3.0 Port		Connect external hard drives, USB printers, or other USB devices to the Synology RackStation here.

No.	Article Name	Location	Description
13)	eSATA Port	Back Panel	Connect external SATA drive or Synology Expansion Unit ¹ to the Synology RackStation.
14)	Console Port		For manufacturing use only.
15)	Redundant Power LED		Displays the status of redundant powers supplies, alerting the user of power supply or fan failure.
16)	Beep off Button		Press to deactivate beep sound when malfunctions of redundant power occur.

¹ For more information about Synology Expansion Unit supported by your RackStation, please visit www.synology.com .

Safety Instructions

	<p>Keep away from direct sunlight and from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.</p>
	<p>Place the product right side up at all times.</p>
	<p>Do not place near any liquids.</p>
	<p>Before cleaning, unplug the power cord. Wipe with damp paper towels. Do not use chemical or aerosol cleaners.</p>
	<p>To prevent the unit from falling over, do not place on carts or any unstable surfaces.</p>
	<p>The power cord must plug in to the correct supply voltage. Make sure that the supplied AC voltage is correct and stable.</p>
	<p>To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.</p>
	<p>Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries appropriately.</p>

Hardware Setup

Tools and Parts for 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 data. If you need the data in the future, please back it up before installation.

Install Drives

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

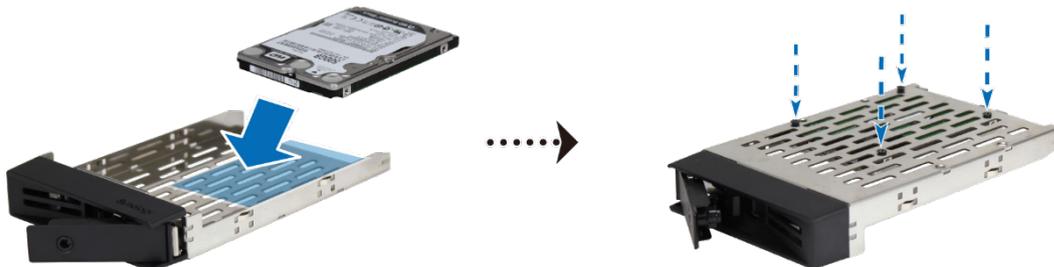


- 2 Load drives in the drive trays:

- **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 hard drive bay.



Important: Make sure the drive tray is completely inserted. Otherwise, the drive might not function properly.

- 4 Push the handle inward to secure the drive tray.
- 5 Insert the drive tray key into the drive tray lock, turn the key clockwise to lock the handle of the drive tray, and then remove the key.



- 6 Repeat the steps above to install all prepared drives.
- 7 Fix the two rack mount kits on both sides with the nuts provided.



- 8 Drives are numbered as shown below.



Note: If you want to create a RAID volume, we recommended all installed drives be the same size in order to optimize drive capacity usage.

Add a RAM Module on RackStation

Synology offers RAM modules which allow you to expand the memory capacity of your RackStation. To install, check, or remove your RAM module, please follow the steps below.

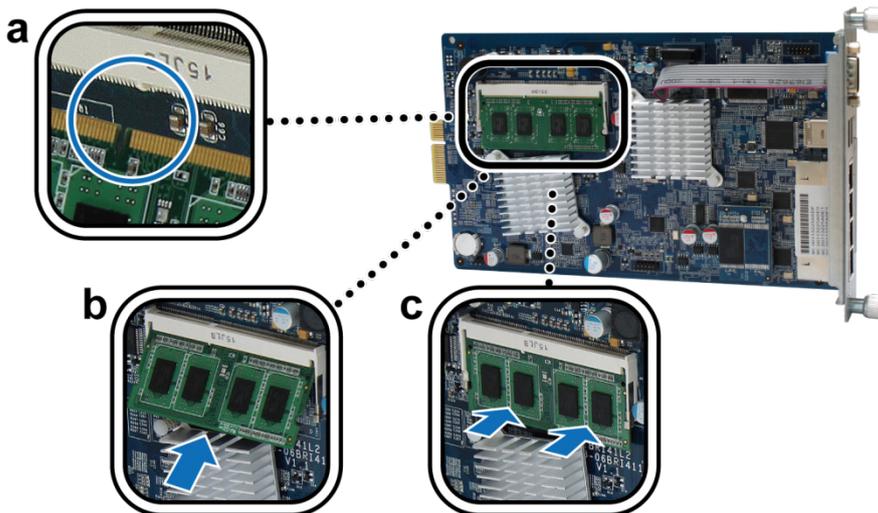
Install a RAM Module

- 1 Shut down the RackStation and disconnect all connected cables to prevent any possible damage.
- 2 Unscrew the two knobs that secure the back panel. Pull out the panel to reveal the circuit board.



Important: When you pull out the panel, you expose sensitive internal components. Avoid touching anything other than the memory assembly when you remove or add memory.

- 3 To insert the new memory module, follow the steps below:
 - a Align the notch on the gold edge of the module with the notch in the memory slot.
 - b Tilt the card and push the memory into the slot. Make sure the module is pushed in all the way.
 - c Use two fingers to apply firm, even pressure and push the memory module downward. You should hear a click when the memory is inserted correctly.



Important: Hold the memory module by its edges, and do not touch the gold connectors.

- 4 Return the board into the RackStation:
 - a Identify the rail within the RackStation.
 - b Place the circuit board within the rail and push the board all the way in.



- c Tighten the two knobs you unscrewed in step 2.



Confirm New Memory is Recognized

After installing a new memory module in the RackStation, we recommended checking whether or not the system recognizes the new memory.

To check the memory of the RackStation:

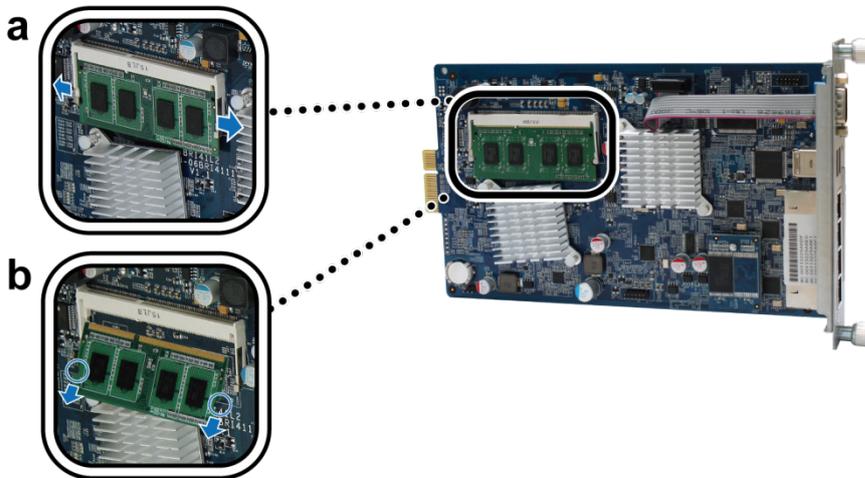
- 1 Start up your RackStation. (See “Start up the RackStation” for more information.)
- 2 Install DiskStation Manager (DSM). (See “Chapter 3: Install DSM on RackStation” for more information.)
- 3 Log in to DSM with an account belonging to the **administrators** group.
- 4 Check **Total Physical Memory** at **Main Menu > System Information**.

Basic information	
Server name	RackStation
Serial number	A4G7N00620
Model name	RS814+
Total Physical Memory	4096 MB

If the RackStation does not recognize the memory or does not start up correctly, please make sure the memory was correctly installed.

Remove RAM Module from RackStation

- 1 Follow steps 1 to 2 of “Install a RAM Module” to remove the circuit board.
- 2 To remove the RAM module, follow the steps below:
 - a Release the levers on the memory slot by pushing outwards simultaneously.
 - b Hold the memory module by the edges and remove it from the slot.



- 3 Follow step 4 of “Install a RAM Module” to replace the circuit board.

Start up the RackStation

- 1 Connect one end of each power cord to the power ports located on the back of the RackStation and the other end to a power outlet.
- 2 Connect at least one LAN cable to one of the LAN ports and the other end to your switch, router, or hub.



- 3 Press the power button to turn on your RackStation.



Your RackStation is now online and detectable from a network computer.

Install DSM on RackStation

After hardware setup is finished, please install DiskStation Manager (DSM) – a browser-based operating system specifically designed for Synology NAS.

We highly recommend using Synology's **Web Assistant** to install DSM with a web browser. Synology Web Assistant can automatically download the latest software from the Internet and guide you through installation.

Install DSM with Web Assistant

Your RackStation comes with a built-in tool called **Web Assistant** to help you configure and install DSM. To use Web Assistant, please follow the steps below.

- 1 Power on the RackStation.
- 2 Open a web browser on a computer in the same network as the RackStation.
- 3 Enter either of the following into the address bar of your browser:
 - a find.synology.com
 - b `rackstation:5000`
- 4 Web Assistant will be launched in your web browser. It will search and find your RackStation within the local network. The status of your RackStation should be **Not Installed**.



- 5 Click **Connect** to start the setup process and follow the onscreen instructions.

Note:

1. Suggested browsers: Chrome, Firefox.
2. Both the RackStation and the computer must be in the same local network.
3. The RackStation must be connected to the Internet to install DSM with Web Assistant.

Learn More

Congratulations! Your RackStation is set up now. Refer to the User's Guide in the installation disc for advanced settings and management. For more information or online resources about your RackStation, please visit www.synology.com.

Specifications

Item	RS814+/RS814RP+
Internal Drives	3.5" or 2.5" SATA (II) x 4
Max. Capacity	16TB (4 x 4TB hard drives)
Hot Swappable Drives	Yes
External Drive Ports	<ul style="list-style-type: none"> • USB 3.0 x 2 • eSATA x 1
LAN Ports	Gigabit x 4
Size (H x W x D) (mm)	<ul style="list-style-type: none"> • RS814+: 44 x 430.5 x 457.5 • RS814RP+: 44 x 430.5 x 570.5
Weight (kg)	<ul style="list-style-type: none"> • RS814+: 7.11 • RS814RP+: 9.43
Supported Clients	<ul style="list-style-type: none"> • Windows XP onward • Mac OS X 10.5 onward • Ubuntu 9.04 onward
Max. User Accounts	2048
Max. Group Accounts	256
Max. Shared Folders	512
Max. Concurrent Connections	512
Max. Supported IP Cameras	20
File Systems	<ul style="list-style-type: none"> • Internal: EXT4 • External: EXT4, EXT3, FAT, NTFS, HFS+
Supported RAID Types	<ul style="list-style-type: none"> • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10 • Synology Hybrid RAID (Up to 2-Disk Fault Tolerance)
Agency Certifications	• FCC Class A • CE Class A • BSMI Class A
HDD Hibernation	Yes
Scheduled Power On/Off	Yes
Wake on LAN/WAN	Yes
Language Localization	<ul style="list-style-type: none"> • English • Deutsch • Français • Italiano • Español • Dansk • Norsk • Svensk • Nederlands • Русский • Polski • Magyar • Português do Brasil • Português Europeu • Türkçe • Český • 日本語 • 한국어 • 繁體中文 • 简体中文
Environment Requirements	<ul style="list-style-type: none"> • Line voltage: 100V to 240V AC • Frequency: 50/60Hz • Operating Temperature: 40 to 95°F (5 to 35°C) • Storage Temperature: 15 to 155°F (-10 to 70°C) • Relative Humidity: 5% to 95% RH • Maximum Operating Altitude: 6,500 feet (2,000 m)

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
STATUS	Green	Static	Volume normal
	Orange	Static	Available volume space < 1GB or < 1 %
		Blinking	Volume degraded or crashed
			No volume
	Off		HDD Hibernation
Alert	Orange	Blinking	System fan not working
	Off		System fan normal
Rear LAN (on right side of jack)	Green	Static	Gigabit connection
	Orange	Static	10/100 Mb connection
	Off		No network
Rear LAN (on left side of jack)	Green	Static	Network connected
		Blinking	Network active
	Off		No network
Disk (1~4)	Green	Static	Drive ready and idle
		Blinking	Drive is being accessed
	Orange	Static	Drive error
	Off		No internal drive
Power	Green	Static	Powered on
		Blinking	Booting up
			Shutting down
	Off		Powered off
Redundant Power ¹	Green	Static	Power supply working
	Off		No power supply
			Power supply not working

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

¹ RS814RP+ only

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2.2 Product Registration. Customers may register Products with Synology and may obtain the manufacturing date for Category I Products, 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/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.