Synology®

Synology Unified Controller UC3200

Hardware Installation Guide

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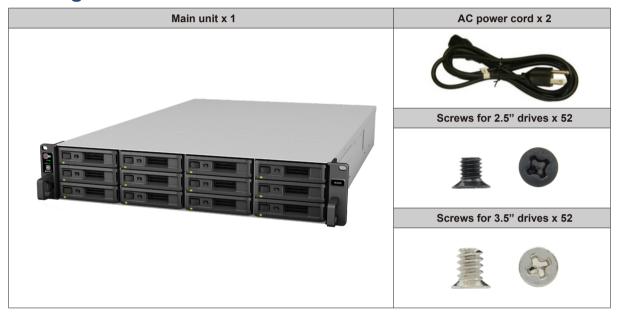
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Before You Start

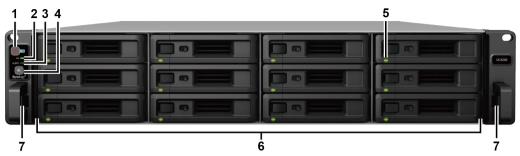
Synology Unified Controller UC3200 is an enterprise server consisting of both system hardware and the software operating system, DSM UC. This manual will guide you through all configuration aspects of your UC3200, including the hardware components, setup procedures, system maintenance, and initial troubleshooting instructions.

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

Package Contents

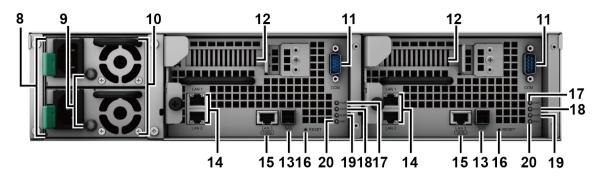


Synology UC3200 at a Glance



No.	Article Name	Location	Description
1	Power Button and Indicator	Front	Press to power on your Synology Unified Controller. To power off the Synology Unified Controller, press and hold until you hear a beep sound and the Power LED starts blinking.
2	HA Status Indicator		Displays the status of the HA (High Availability). For more information, see "LED Indicator Table."
3	Alert Indicator		Displays warnings regarding fan or temperature. For more information, see "LED Indicator Table."
4	Beep Off Button		Press to deactivate the beeping sound that is emitted when a malfunction occurs.
5	Drive Status Indicator		Displays the status of drives. For more information, see "LED Indicator Table."
6	Drive Tray		Install drives (hard disk drives or solid state drives) here.
7	Rail Kit Release Tab		Push in and hold to release the Synology Unified Controller from the rail kit lock. ¹

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



No.	Article Name	Location	Description
8	Power Port		Connect power cords here.
9	PSU Indicator and Beep Off Button		Displays the status of the power supply unit (PSU). For more information, see "LED Indicator Table." Press to deactivate the beeping sound that is emitted when a malfunction occurs.
10	PSU Fan		Disposes of excess heat and cools the PSU.
11	Console Port		This port is used for manufacturing use only.
12	PCI Express Expansion Slot		Supports additional PCle network interface cards.
13	SAS OUT Port		Connect to Synology Expansion Unit ² here.
14	1GbE LAN Port		Connect RJ-45 network cables here.
15	10GBase-T LAN Port	Back	Connect RJ-45 network cables here.
16	RESET Button		Press and hold until you hear a beep sound to restore the default IP address, DNS server, and password for the admin account. Press and hold until you hear a beep sound, then press and hold again until you hear three beep sounds to return the Synology Unified Controller to "Ready" status so that DSM UC can be initialized.
17	Power Indicator		Displays the status of the power supply of the controller. For more information, see "LED Indicator Table."
18	Status Indicator		Displays the status of the controller. For more information, see "LED Indicator Table."
19	Alert Indicator		Displays warnings regarding fan or temperature of the controller. For more information, see "LED Indicator Table."
20	Remove Indicator		Displays the status indicating whether the controller is removable. For more information, see "LED Indicator Table."

² For more information about Synology Expansion Unit supported by your Synology Unified Controller, please visit www.synology.com.

Safety Instructions

	Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.
(Golon 2	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.
2 (1)	To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.
4	Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries appropriately.

CAUTION: Restricted Access Location

This server is intended for installation only in restricted access locations as defined where both these conditions apply:

- Access is through the use of a lock or tool and key, or other means of security, and is controlled by the authority responsible for the location.
- Access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.

Hardware Specification

Item	UC3200		
Compatible Drive Type	3.5" / 2.5" SAS x 12		
Maximum Raw Capacity	• 192TB (12 x 16TB HDD)		
Maximum Raw Capacity	• 576 TB with 2 x RXD1219sas (Expansion unit)		
External Device Port	SAS OUT x 1 (Per controller)		
LAN Port	• 1GbE (RJ-45) x 2 (Per controller)		
LANTOIL	• 10GBase-T (RJ-45) x 1 (Per controller)		
PCIe Slot	Gen3 x8 slots (x8 link) x 1 (Per controller)		
Size (H x W x D) (mm)	• 88 x 482 x 724 (Including rack mount kits)		
Size (ITX W X D) (IIIIII)	88 x 430.5 x 692 (Not including rack mount kits)		
Weight (kg)	19.7		
	 Windows Server 2008 onward 		
	 VMware 5 onward 		
Supported Client	Solaris 10 onward		
Cupported Olient	 Citrix XenServer 7.2 onward 		
	 SUSE Linux ES 11 onward 		
	 Red Hat ES 6.10 onward 		
File System	Internal: Btrfs		
	• Basic • JBOD • RAID 0 • RAID 1		
Supported RAID Type	 RAID 5 • RAID 6 • RAID 10 • Synology RAID F1 		
A	• FCC Class A • CE Class A • BSMI Class A		
Agency Certification	• EAC • VCCI • CCC • RCM		
HDD Hibernation	N/A		
Scheduled Power On/Off	N/A		
Wake on LAN	N/A		
	∙ English • Deutsch • Français • Italiano • Español • Dansk • Norsk • Svensk		
Language Localization	• Nederlands • Русский • Polski • Magyar • Português do Brasil • Português Europeu		
	・Türkçe ・Český ・日本語・한국어 ・ไทย ・繁體中文・简体中文		
	Line voltage: 100V to 240V AC		
	 Frequency: 50 to 60Hz 		
Environment Requirement	 Operating Temperature: 32 to 95°F (0 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.

Optional Accessories

With Synology accessories, you can customize your Synology Unified Controller to fit different business environments without worrying about compatibility and stability. Visit www.synology.com/compatibility for more information.

· Memory Module

Model Name	Picture	Description
D4EC-2666-8G		8GB D4EC-2666 ECC U-DIMM
D4EC-2400-16G		16GB D4EC-2400 ECC U-DIMM

• PCle Add-in Card

Model Name	Picture	Description
E10G18-T2		Dual-port, 10GbE RJ-45 Network Interface Card
E10G18-T1		Single-port, 10GbE RJ-45 Network Interface Card
E10G17-F2		Dual-port, 10GbE SFP+ Network Interface Card

• Expansion Unit

Model Name	Picture	Description
RXD1219sas		12-bay Rackmount type expansion unit, compatible with 3.5"/2.5" SAS drives, up to 2 units connections

• Rail Kit

Model Name	Picture	Description
RKS1317		Sliding rails

Spare Part

Model Name	Picture	Description
Disk Tray (Type R7)		3.5"/2.5" Drive Tray
FAN 60*60*51_2		System Fan Module
PSU 500W-RP Module_2		Redundant PSU Module
PSU 500W-RP SET_2		Redundant PSU Set (Cage x 1, PSU Module x 2)

Hardware Setup

Tools and Parts for Component Installation

Please prepare tools and parts below before setting up your Synology Unified Controller:

- A screwdriver.
- At least one 3.5" or 2.5" SAS drive (please visit www.synology.com/compatibility 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.

 Rail mounting kit. (please see the Optional Accessories section to find out the suitable rail kit for cabinet installation)

Warning: We suggest mounting your Synology Unified Controller on a cabinet before installing any drives since the heavy weight will increase the installation difficulty.

Install Drives

Please follow steps below for drive installation:

- 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 below.

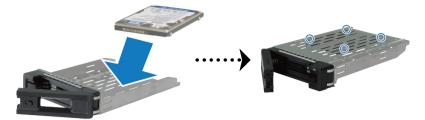


2 Install drives:

• 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: We suggest installing drives of the same size to optimize drive capacity usage when creating RAID volumes.

Install Memory Modules

You must install genuine Synology memory module(s) to ensure system compatibility and reliability. Please install memory module(s) into the slots as indicated below.



The following table shows the memory configuration for best practice. You must follow the configuration below when upgrading your memory capacity, otherwise system performance and stability may suffer.

A0	A1	В0	B1	Total Memory
8GB	-	-	-	8GB
16GB	-	-	-	16GB
8GB	-	8GB	-	16GB
8GB	8GB	8GB	-	24GB
8GB	8GB	8GB	8GB	32GB
16GB	-	16GB	-	32GB
8GB	8GB	16GB	16GB	48GB
16GB	16GB	16GB	-	48GB
16GB	16GB	16GB	16GB	64GB

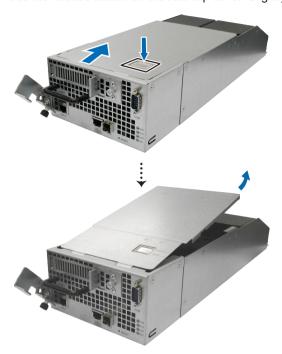
Follow the steps below to install, check, or remove a memory module on your UC3200.

To install the RAM module:

- 1 Shut down your UC3200. Disconnect all cables connected to your UC3200 to prevent any possible damage.
- **2** As shown below, loosen the screws that secure the controller on the back of UC3200 by turning it counterclockwise. Pull the release lever to pull out one controller.

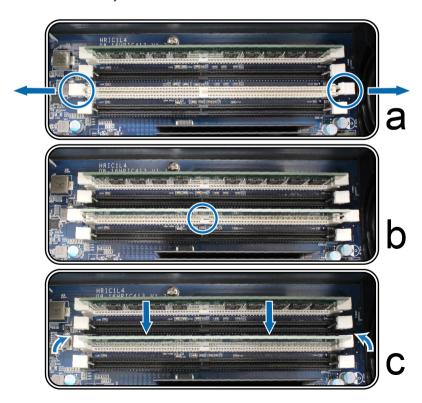


3 Press the release button on the rear top cover. Slightly push backward to lift the rear top cover.



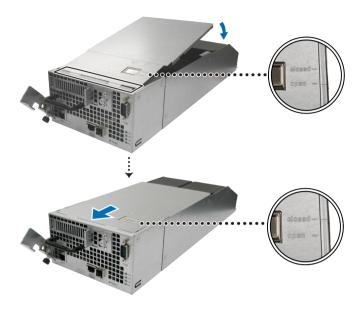
Note: When you remove the rear top cover, the sensitive internal components are exposed. Avoid touching anything other than the memory assembly when you remove or add memory.

- 4 Insert the new memory module in the slot:
 - **a** Push the retaining clips on the slot out to the sides.
 - **b** Align the notch on the gold edge of the module with the notch in the memory slot.
 - **c** Push down on the memory module with firm and even pressure. The retaining clips will snap into position as the module is correctly inserted.



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

- **5** Put back the rear top cover removed in step 3:
 - a Align the front side of rear top cover with the slots on the chassis' edge.
 - **b** Align the notch on the chassis to the "open" next to the release button as shown below.
 - c Slightly push the rear top cover back to "closed".



d Insert the controller back in UC3200. Push back the release lever and turn the screw clockwise to secure the controller.

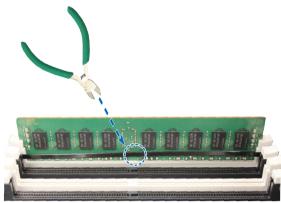


To make sure UC3200 recognizes the new memory capacity:

- 1 Log in to DSM UC as admin or a user belonging to the administrators group.
- 2 Check Total Physical Memory in Control Panel > Info Center.

To remove the RAM Module:

- 1 Follow step 1 to 3 of the **To install the RAM module** section to shut down your UC3200, disconnect the cables, pull out one controller and remove the rear top cover of the controller.
- **2** Cut the cable tie before removing the memory module. (The pre-installed memory module is cable tied to prevent loosening during delivery.)



Note: Avoid touching any components of the motherboard when you cut the cable tie.

- 3 Disengage the memory retaining clips by pushing them outwards, and the module will pop out of the slot.
- **4** Follow step 5 of the **To install the RAM module** section to put back the top rear cover and insert the controller back in UC3200.

Install PCle Add-in Cards

UC3200 provides one PCIe slot for optional add-in card expansion, allowing network interface card to be installed.

To install the network interface cards:

- 1 Shut down your UC3200. Disconnect all cables connected to your UC3200 to prevent any possible damages.
- 2 Pull out one controller and remove the rear top cover by following step 2 and 3 of the **To install the RAM** module section.
- 3 Install the network interface card:
 - **a** Loosen the screw that secures the expansion slot's cover by turning it counterclockwise, and move it to the right.
 - **b** Slightly push the expansion slot's cover to remove it.



 $\boldsymbol{c}\,$ Align the card's connector with the expansion slot, and insert the card into the slot.



Note: Make sure the connector is fully inserted. Otherwise, the network interface card might not be able to function properly.

d Turn the screw clockwise to secure the newly inserted card.



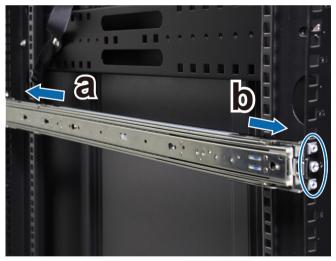
- 4 Repeat step 3 to install the other network interface card for the other controller.
- **5** Put back the rear top cover by following step 5 of the **To install the RAM module** section.

Install and Remove Rail Kits

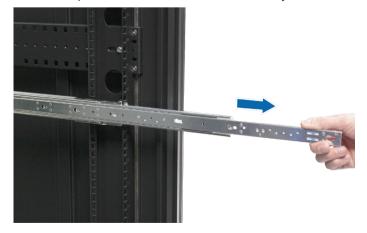
Here we use RKS1317 as an example to illustrate how to install or remove the rail kits. For more information about the rail kit installation, please refer to the Quick Installation Guide that comes with the rail kit.

To install the rail kit:

- 1 To install the rail kit to the rack:
 - a Attach the rear end of the rail kit assembly to the rack.
 - **b** Slide the front latch outwards and insert the brackets into the rack holes.



2 Extend and pull out the inner rail from the assembly.



3 Align the fixing holes of the inner rail to the side of the chassis and slide backward to attach the inner rail.



4 With the help of another person, carefully align the inner rail to the outer rail assembly.



5 Push the chassis towards the rack. Use the cage nuts and screws in the rail kit package to secure the chassis to the rack if necessary.



To remove the rail kit:

1 To remove the chassis from the rack, hold the rail kit release tabs on the ear holders and pull out the chassis from the rack



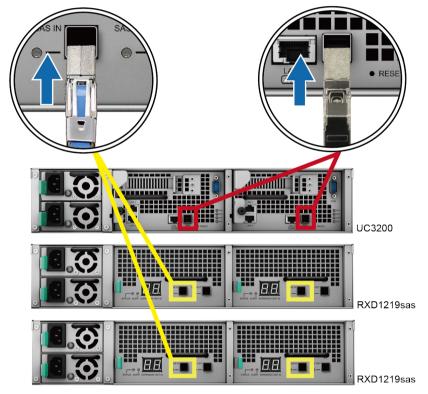
2 With the help of another person, carefully remove the chassis from the rack. Then, slide forwards to remove the inner rail from the chassis.

Expansion Unit Deployment and Topology

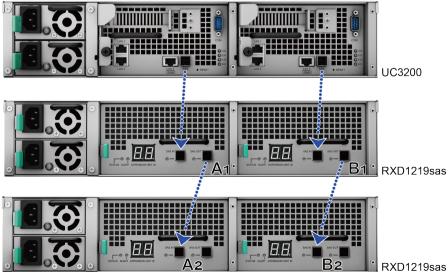
UC3200 supports working with up to two RXD1219sas (12-bay) expansion units, providing seamless storage expansion whenever needed. This section will guide you through how to connect the expansion units to your Synology Unified Controller.

To connect RXD1219sas with UC3200:

1 Connect one end of mini-SAS HD cable to the SAS port of your UC3200 and the other to the SAS-IN port of RXD1219sas. Make sure the release band (in blue) of the cable faces upward when plugging into the UC3200, and that of the cable faces upward when plugging into RXD1219sas; otherwise, the UC3200 and expansion unit will not be correctly connected.



- 2 Connect one end of mini-SAS HD cable to the SAS-OUT port on SAS module A of an expansion unit (e.g., module A1), and the other end to the SAS-IN port on SAS module A of the next expansion unit (e.g., module A2).
- 3 Connect one end of mini-SAS HD cable to the SAS-OUT port on SAS module B of an expansion unit (e.g., module B1), and the other end to the SAS-IN port on SAS module B of the next expansion unit (e.g., module B2).



4 Connect one end of the power cord(s) to the power port of RXD1219sas, and the other to the power outlet(s). RXD1219sas will automatically power on once the power cords are correctly connected.



Note:

- RXD1219sas 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.
- · UC3200 supports up to two expansion units.

Important: Do not remove the expansion cable while the host device is still powered on. Doing so may result in data loss.

5 Press the power button on the front panel to power on your UC3200. The expansion unit ID of RXD1219sas connected to UC3200 will be displayed in sequence on the back panel.

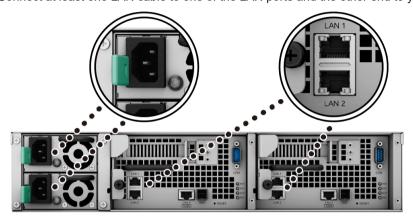


Note: Even with the Synology Unified Controller and expansion unit(s) powered on, you can still expand with one or two expansion unit if needed. To do so, repeat above steps to connect the expansion cables and power cords of the other expansion units. Your expansion units will automatically power on if they are correctly connected, and the expansion unit ID will be displayed accordingly after a few seconds (if DSM UC is correctly initialized in the Synology Unified Controller server).

Start up Your Synology UC3200

To start up your UC3200:

- 1 Connect one end of each power cord to the power ports located on the back of the UC3200 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 the UC3200.



Note:

- 1. To turn on both controllers, press the power button.
- 2. To turn off both controllers, press and hold the power button until you hear a beep sound and the Power LED indicator starts blinking.
- 3. If one controller is powered on and the other is powered off, press the power button and the controller that is powered off will be booting up while the other will not be affected.
- 4. If either of the controllers is powered on, press the power button and hold for about 10 seconds and the system will be forced to shut down.

Congratulations! Your Synology Unified Controller is now online and detectable from a network computer.

LED Indicator Table

Location	LED Indicator	Color Status		Description	
	Power		Static	Powered on	
		Blue	Blinking -	Booting up / Shutting down on one of the controller	
				Both controllers are booting up / shutting down	
		Off		Powered off	
		Green	Static	Both controllers are powered on and HA (High Availability) status is normal	
				Both controller modules are installed and powered on, but HA (High Availability) status is abnormal	
	HA STATUS	Orange	Blinking	Both controller modules are installed, one of the controller is powered on while the other is booting up	
				Only one controller module is installed and powered on	
		Off		Both controllers are booting up	
Front Panel				Only one controller module is installed and booting up	
	ALERT ¹²	Orange	Blinking -	Fan failure / Over temperature on one controller while the other is normal	
		Orange		Fan failure / Over temperature on both conrollers	
		ALLINI	Off		System normal
				Both controllers are booting up	
		C=====	Static	Drive ready and idle	
	Drive Status Indicator (on tray)	Green	Blinking	Accessing drive	
		Red	Static	Drive error / Port disabled ³	
		(Off	No internal drive	

¹ If one controller is powered on while the other is booting up, the ALERT indicator will display the controller's status that is powered on.

 $^{^{2}}$ If the system contains only one controller, the ALERT indicator will only display that controller's status.

³ Please try to restart your Synology Unified Controller or re-insert the drive(s), and then run the HDD/SSD manufacturer's diagnostic tool to check the health status of the drive(s). If you can log into DSM UC, please run the built-in S.M.A.R.T. test to scan the drive(s). If the problem remains unresolved, please contact Synology Technical Support for help.

Location	LED Indicator	Color	Status	Description
Controllers	Power	Green	Static	Power supply normal
			Blinking	Booting up / Shutting down
		Off		Powered off
	STATUS	Green	Static	Volume normal / Volume not created
		Red	Blinking	Volume degraded / Volume crashed
		Off		Both controllers are booting up / shutting down
	ALERT	Red	Blinking	Fan failure / Over temperature
		Off		System normal
	REMOVE	Green	Static	Controllers ready to be removed
		Off		Controllers cannot be removed
Back Panel	1GbE LAN (on left side of jack)	Green	Static	Network connected
		Off		No network
	1GbE LAN (on right side of jack)	Green -	Static	Network connected
			Blinking	Network active
		Off		No network
	10GbE LAN (on left side of jack)	Green		10 Gbps connected
		Orange	Static	5 / 2.5 / 1 Gbps connected 100 Mbps connected
		Off		No network
	10GbE LAN (on right side of jack)	Green	Static	Network connected
			Blinking	Network active
		Off		No network
	PSU Indicator	Green	Static	Power supply unit normal
		Off		Power supply unit off

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

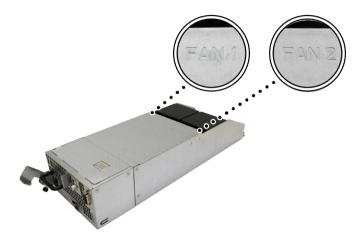
Chapter

System Maintenance

Replace System Fan

If a system fan malfunctions, please see the instructions below to replace the malfunctioning fan of UC3200.

- 1 Follow step 1 and 2 of the **To install the RAM module** section to shut down your UC3200, disconnect the cables and pull out one controller.
- 2 Fans are numbered on rear top cover of the controller, as indicated below.



3 Find the malfunctioning fan. Lift the fan upward to remove it.



4 Prepare a new fan, and slide it into the controller. Make sure the fan is properly slide in.



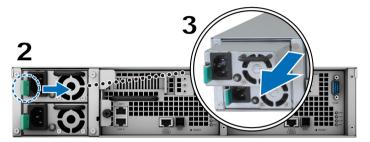
Replace Power Supply Unit (PSU)

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

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

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 your UC3200.



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

Initial Troubleshooting Guide

We have selected several helpful articles on frequently asked questions to help you do initial troubleshooting on your Synology Unified Controller:

- General
 - · What can I do to troubleshoot Synology Unified Controller connection problems?
 - What should I do if hardware issues occurred on my Synology Unified Controller?
 - · How to reset my Synology Unified Controller
- Hard Disk Drive
 - · How to fix drive failure and retrieve the data from your drives
- Memory
 - · How can I run a memory test on my Synology Unified Controller?
- LEC
 - Why is the Power LED indicator flashing constantly?
 - · What can I do if the STATUS LED keeps flashing in orange?
- Fan
 - · What types of fan speed modes are available on my Synology Unified Controller?

Initialize DSM UC on Synology UC3200

After hardware setup is finished, please initialize DSM UC – Synology's browser-based operating system – on your UC3200.

Initialize DSM UC with Web Assistant

Your UC3200 comes with a built-in tool called **Web Assistant** that helps you download the latest version of DSM UC from the Internet and install it on your UC3200. To use Web Assistant, please follow the steps below.

- 1 Power on your UC3200.
- 2 Open a web browser on a computer connected to the same network as the UC3200.
- 3 Enter either of the following into the address bar of your browser:
 - a find.synology.com
 - b synologyuc:5000
- **4** Web Assistant will be launched in your web browser. It will search for and find the Synology Unified Controller within the local network. The status of the UC3200 should be **Ready**.



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

Note:

- 1. The Synology Unified Controller must be connected to the Internet to install DSM UC with Web Assistant
- 2. Suggested browsers: Chrome, Firefox.
- 3. Both the Synology Unified Controller and the computer must be in the same local network.
- **6** If you accidentally leave the setup process before it is finished, log in to the DSM UC as **admin** (default administrative account name) with the password left blank.

Learn More

Congratulations! Your UC3200 is now ready for action. For more information or online resources about your UC3200, please visit www.synology.com.

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Section 5. License Limitations. The license set forth in Sections 1, 2 and 3 applies only to the extent that you have ordered and paid for the Product and states the entirety of your rights with respect to the Software. Synology reserves all rights not expressly granted to you in this EULA. Without limiting the foregoing, you shall not authorize or permit any third party to: (a) use the Software for any purpose other than that in connection with the Product; (b) license, distribute, lease, rent, lend, transfer, assign or otherwise dispose of the Software; (c) reverse engineer, decompile, disassemble or attempt to discover the source code of or any trade secrets related to the Software, except and only to the extent that such conduct is expressly permitted by applicable law notwithstanding this limitation; (d) adapt, modify, alter, translate or create any derivative works of the Software; (e) remove, alter or obscure any copyright notice or other proprietary rights notice on the Software or Product; or (f) circumvent or attempt to circumvent any methods employed by Synology to control access to the components, features or functions of the Product or Software. Subject to the limitations specified in this Section 5, you are not prohibited from providing any services hosted by Synology NAS server to any third party for commercial purpose.

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Section 7. Audit. Synology will have the right to audit your compliance with the terms of this EULA. You agree to grant Synology a right to access to your facilities, equipment, books, records and documents and to otherwise reasonably cooperate with Synology in order to facilitate any such audit by Synology or its agent authorized by Synology.

Section 8. Ownership. The Software is a valuable property of Synology and its licensors, protected by copyright and other intellectual property laws and treaties. Synology or its licensors own all rights, titles and interests in and to the Software, including but not limited to copyright and any other intellectual property rights.

Section 9. Limited Warranty. Synology provides a limited warrant that the Software will substantially conform to Synology's published specifications for the Software, if any, or otherwise set forth on the Website, for a period required by your local law. Synology will use commercially reasonable efforts to, in Synology's sole discretion, either correct any such nonconformity in the Software or replace any Software that fails to comply with the foregoing warranty, provided that you give Synology written notice of such noncompliance within the warranty period. The foregoing warranty does not apply to any noncompliance resulting from any: (w) use, reproduction, distribution or disclosure not in accordance with this EULA; (x) any customization, modification or other alteration of the Software by anyone other than Synology; (y) combination of the Software with any product, services or other items provided by anyone other than Synology; or (z) your failure to comply with this EULA.

Section 10. Support. During the period specified in the Section 9, Synology will make available to you the support services. Following the expiration of the applicable period, support for Software may be available from Synology upon written

request.

Section 11. Disclaimer of Warranties. EXCEPT AS EXPRESSLY SET FORTH ABOVE, THE SOFTWARE IS PROVIDED "AS IS" AND WITH ALL FAULTS. SYNOLOGY AND ITS SUPPLIERS HEREBY DISCLAIM ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, ARISING BY LAW OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, TITLE AND NONINFRINGEMENT, WITH REGARD TO THE SOFTWARE. WITHOUT LIMITING THE FOREGOING, SYNOLOGY DOES NOT WARRANT THAT THE SOFTWARE WILL BE FREE OF BUGS, ERRORS, VIRUSES OR OTHER DEFECTS.

Section 12. Disclaimer of Certain Damages. IN NO EVENT WILL SYNOLOGY OR ITS LICENSORS BE LIABLE 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 OF OR INABILITY TO USE THE SOFTWARE OR OTHERWISE UNDER OR IN CONNECTION WITH THIS EULA OR THE SOFTWARE, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY EVEN IF SYNOLOGY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Section 13. Limitation of Liability. SYNOLOGY'S AND ITS SUPPLIERS' LIABILITY ARISING OUT OF OR RELATING TO THE USE OF OR INABILITY TO USE THE SOFTWARE OR OTHERWISE UNDER OR IN CONNECTION WITH THIS EULA OR THE SOFTWARE IS LIMITED TO THE AMOUNT ACTUALLY PAID BY YOU FOR THE PRODUCT REGARDLESS OF THE AMOUNT OF DAMAGES YOU MAY INCUR AND WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHER THEORY. The foregoing disclaimer of warranties, 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 the exclusion of implied warranties or the exclusion or limitation of certain damages. To the extent that those laws apply to this EULA, the exclusions and limitations set forth above may not apply to you.

Section 14. Export Restrictions. You acknowledge that the Software is subject to U.S. export restrictions. You agree to comply with all applicable laws and regulations that apply to the Software, including without limitation the U.S. Export Administration Regulations.

Section 15. Termination. Without prejudice to any other rights, Synology may terminate this EULA if you do not abide by the terms and conditions contained herein. In such event, you must cease use of the Software and destroy all copies of the Software and all of its component parts.

Section 16. Assignment. You may not transfer or assign your rights under this EULA to any third party, except for that pre-installed in the Products. Any such transfer or assignment in violation of the foregoing restriction will be void.

Section 17. Applicable Law. Unless expressly prohibited by local law, this EULA is governed by and construed in accordance with the laws of the country, in accordance with which Synology Inc. was organized without regard to any conflict of law principles to the contrary.

Section 18. Dispute Resolution. Any dispute, controversy or claim arising out of or relating to this EULA will be resolved exclusively and finally by arbitration conducted by three neutral arbitrators in accordance with the procedures of the Arbitration Law and related enforcement rules of the country in which Synology Inc. was organized. In such cases, the arbitration will be limited solely to the dispute between you 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 take place in Taipei 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. You understand that, in the absence of this provision, you 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 you expressly and knowingly waive those rights and agree to resolve any disputes through binding arbitration in accordance with the provisions of this Section 18. 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 19. Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this EULA, 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.

Section 20. Severability. If any provision of this EULA is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this EULA will remain in full force and effect.

Section 21. Entire Agreement. This EULA sets forth the entire agreement of Synology and you with respect to the Software and the subject matter hereof and supersedes all prior and contemporaneous understandings and agreements whether written or oral. No amendment, modification or waiver of any of the provisions of this EULA will be valid unless set forth in a written instrument signed by the party to be bound thereby.

SYNOLOGY, INC.LIMITED PRODUCT WARRANTY

THIS LIMITED WARRANTY ("WARRANTY") APPLIES TO THE PRODUCTS (AS DEFINED BELOW) OF SYNOLOGY, INC. AND ITS AFFILIATES, INCLUDING SYNOLOGY AMERICA CORP, (COLLECTIVELY, "SYNOLOGY"). YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS WARRANTY BY OPENING THE PACKAGE CONTAINING AND/OR USING THE PRODUCT. PLEASE BE ADVISED THAT THIS LIMITED WARRANTY DOES NOT APPLY TO THE SOFTWARE CONTAINED IN THE PRODUCTS WHICH SHALL BE SUBJECT TO ITS END USER LICENSE AGREEMENT, AND THAT SYNOLOGY RESERVES THE RIGHT TO MAKE ADJUSTMENTS AND/OR MODIFICATION TO THIS PRODUCT WARRANTY FROM TIME TO TIME WITHOUT PROVIDING PRIOR NOTICE TO YOU. IF YOU DO NOT AGREE TO THE TERMS OF THIS WARRANTY, DO NOT USE THE PRODUCT. INSTEAD, YOU MAY RETURN THE PRODUCT TO THE RESELLER WHERE YOU PURCHASED IT FOR A REFUND IN ACCORDANCE WITH THE RESELLER'S APPLICABLE RETURN POLICY.PLEASE NOTE THAT SYNOLOGY'S WARRANTY SUPPORTS ARE NOT AVAILABLE IN EVERY COUNTRY, AND THAT SYNOLOGY MAY REFUSE TO PROVIDE THIS LIMITED WARRANTY SUPPORTS TO YOU IF YOU REQUEST SUCH SUPPORTS NOT AT THE COUNTRY AT WHICH THE PRODUCT WAS ORIGINALLY PURCHASED. THE COUNTRY AT WHICH THE PRODUCT WAS ORIGINALLY PURCHASED SHALL BE DETERMINED BASED ON THE SYNOLOGY'S INTERNAL RECORDS.

Section 1. Products

(a) "Products" refer to New Products or Refurbished Products.(b) "New Product" means the Synology-branded hardware product and Synology-branded accessories contained in the original packaging Customer bought from an authorized Synology distributor or reseller. You may see our "New Product" at https://www.synology.com/products/status.(c) "Refurbished Product" means all Synology products which have been refurbished by Synology's affiliate or an authorized Synology distributor or reseller, not including those sold as "as is" or with "no warranty" by anyone.(d) Other definition: "Customer" means the original person or entity purchasing the Product from Synology or an authorized Synology distributor or reseller; "Online Store" means an online shop operated by Synology or Synology's affiliate; "Software" means the Synology proprietary software that accompanies the Product when purchased by Customer, is downloaded by Customer from the Web Site, or is pre-installed on the Product by Synology, and includes any firmware, associated media, images, animations, video, audio, text and applets incorporated into the software or Product and any updates or upgrades to such software.

Section 2. Warranty Period

(a) "Warranty Period": The warranty period commences on the purchase date is shown on the purchase receipt or invoice to be presented by Customer and ending at the day after the end of the Warranty Period for each New Product. You may see the Warranty Period for each New Product at https://www.synology.com/products/status. For the Refurbished Product or repaired parts, it's the remainder of the warranty period of the product they are replacing, or ninety (90) days from the date the product was replaced or repaired, whichever is longer; except for those sold as "as is" or with "no warranty" by any stores. Without presenting such purchase receipt or invoice, the warranty period shall commence on the date of manufacture based on our internal record.(b) "Extended Warranty Period": For Customer purchasing EW201/EW202 optional service for applicable Products specified in Section 1 (b), the Warranty Period specified in Section 2 (a) of the applicable Product registered with EW201/EW202 optional service will be extended by two years. You may see the applied model at https://www.synology.com/products/Extended_Warranty.

Section 3. Limited Warranty and Remedies

- 3.1 Limited Warranty. Subject to Section 3.2, Synology warrants to the 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. Such limited warranty does not apply to the Software contained in the product or purchased by Customer which shall be subject to the accompanying end user license agreement provided with the Product. Synology provides no warranty to Refurbished Product sold as "as is" or with "no warranty". This Limited Warranty is NOT transferable and applies only to the customers who directly purchase products from Synology's affiliate, the resellers, and distributor that Synology authorized. The warranty set forth in Section 3 will terminate upon Customer's sale or transfer of the Product to a third party.
- 3.2 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 or its related documents (b) has been damaged by service (including upgrades and expansions) performed by anyone who is not a representative of Synology or any Synology Authorized Service Provider; (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. (f) has been tie-in any non-Synology branded hardware products or any software, even if packaged or sold with Synology hardware. (g) Customer disassembles the Product except as authorized by Synology; (h) Customer fails to implement any correction, modification, enhancement, improvement or other update made available to Customer by Synology; or (i) Customer implements, installs or uses any correction, modification, enhancement, improvement or other update made available by any third party. (j) Any compatibility issues occurred when installing hardware products, software, or components not supported by Synology. (k) product damage caused by accident, fire, liquid contact, earthquake or other external cause. (l) cosmetic damage caused by normal wear and tear or otherwise due to the normal aging of the Product, including but not limited to scratches, dents and broken plastic on ports unless failure has occurred due to a defect in materials or workmanship; (m) serial number has been removed or defaced from Product, resulting in not able to identify.

- **3.3 Warranty Support and Exclusive Remedy.** If Customer gives notice of noncompliance with any of the warranties set forth in Section 3.1 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, (b) provide technical support, or (c) replace the noncomplying Product or part thereof upon return of the complete Product in accordance with Section 3.4 The foregoing sets forth Synology's entire liability and Customer's sole and exclusive remedy for any breach of warranty under Section 3.1 or any other defect or deficiency in the Product. Customer will reasonably assist Synology to diagnose and validate any nonconformity with the Product.
- 3.4 Return. Any Product return by Customer under Section 3.3 must be made in accordance with Synology's then-current return procedures with the purchase receipt or invoice. You may see more information about return procedure at https://www.synology.com/knowledgebase/DSM/tutorial/Service_Application/How_to_make_warranty_claim_for_Synology_NAS, for warranty claims, Customer must return the complete Product to Synology in accordance with this Section 3.4. Any Product returned that has been disassembled (except under the direction of Synology) will be refused and returned to Customer at Customer's expense. Any Product 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. Customer is responsible for insurance and risk of loss with respect to returned items until they are properly received by Synology.
- **3.5 Replacement by Synology.** If Synology elects to replace any Product under this Warranty set forth in Section 3.1, 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 3.4 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").
- 3.6 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 4. Limitations of Liability

- **4.1 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).
- **4.2 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.
- **4.3 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 5. Miscellaneous

5.1 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.

- **5.2 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.
- **5.3 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.
- **5.4 Applicable Law.** Unless explicitly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. for the Customers residing within the United States; and by the laws of the Republic of China (Taiwan) for Customers not residing within the United States, 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.
- 5.5 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 5.5. 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.
- **5.6 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.
- **5.7 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.
- **5.8 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.
- **5.9 Entire Agreement.** This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.

FCC Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

この装置は、クラス A 機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。 VCCI - A