Synology®

RX410 User's Guide

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Get Started with RX410

Congratulations on your purchase of Synology RX410. This product is specially designed for the storage expansion of Synology RackStation. 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



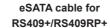


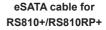


User's Guide



Rack Mount Kit x 2







Screws for 2.5" Hard Drives x 20



Rack Mount Kit Screws x 5

Screws for 3.5" Hard Drives x 20







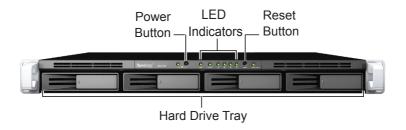
Hardware Specifications

Internal HDD	4X SATA(II)
eSATA Port #	1
Max Capacity (Internal HDD)	4X 2TB
Hot Swappable HDD	Yes
Size (HxWxD) (mm)	44x430.5x457.5mm
Weight	7.10 kg
System Fan	3X (40x40mm)
Fan Speed	High / Middle / Low (Hibernation)
Noise Level (Fan-only)	32dB (5200rpm)
Power Recovery	Sync with server
AC Input Power Voltage	100V to 240V AC
Power Frequency	50 / 60Hz, Single Phase
Operating Temperature	5°C ~ 35°C (40°F ~ 95°F)
Storage Temperature	-10°C ~ 70°C (15°F ~ 155°F)
Relative Humidity	5% to 95% RH
Maximum Operating Altitude	10,000 feet
Certification	FCC Class A, CE Class A

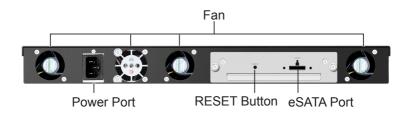
Operating Requirements

Synology RackStation RackStation series with Synology DSM2.3-1142 and onwards

Front View



Back View



Article Name	Location	Description		
POWER Button	Front	The POWER button is used to turn RX410 on or off. Press and hold the button for 7 seconds to shut down RX410.		
		Note: RX410 will be turned on or off automatically when the connected Synology RackStation powers on or off.		
LED Indicators	Front	The LED indicators are used to display the status of the internal disks and the system. For complete details, please refer to the next table: <i>LED Behavior</i> .		
Hard Drive Tray	Front	The hard drive tray is designed for loading the hard drives with RX410.		

Article Name	Location	Description
RESET Button	Front & Back	The RESET button is used to restore the settings to the factory default.
eSATA Port	Back	The eSATA port is used to connect RX410 to RackStation servers.
Fan	Back	The fan is built to exhaust waste heat out of RX410. If the fan is not working, RX410 will "beep" every few seconds.
Power Port	Back	The power port is where you connect the power cord to RX410.

LED Behavior

LED	Behavior	Description		
POWER	Solid Green	Power is on		
	Off	Power is off		
	Solid Green	Synology RackStation is connected		
eSATA	Flashing Orange	Fan is not working		
	Off	Synology RackStation is disconnected		
	Solid Green	Volume is created		
RAID	Flashing Green	Volume is degraded		
	Off	Volume is crashed or not created		
STATUS	Solid Green	System is functioning		
SIAIUS	Off	System is not working		
	Solid Green	Disk is ready and idle		
Hard Disk Status	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.



Keep Synology product upright. Do not lay it down horizontally.



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.

Set Up RX410

Tools and Parts for Hard Disk Installation

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

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

Install Hard Disks

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



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



 For 2.5" Hard Disk: Place the hard disk in the rectangular area (shown below) of the hard drive tray, turn the tray upside down, and then tighten the screws to secure the hard disk.



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



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

4 Push the clip to fix the hard disk tray.

5 Repeat the steps above to assemble all hard disks you have prepared. Fix the two rack mount kits on both sides with their screws provided.

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

Connect with Synology RackStation

1 Connect one end of the power cord to the power port of RX410, and the other to the power outlet.



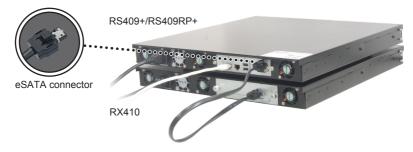
- 2 Connect RX410 with Synology RackStation:
 - Connect with RS810+/RS810RP+:
 Take the eSATA cable shown below to connect to the eSATA ports of RX410 and Synology RackStation.



After the connection is complete, RX410 will be turned on or off automatically when the connected RackStation powers on or off.

Connect with RS409+/RS409RP+:

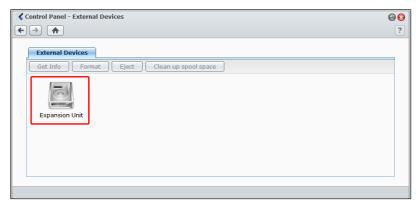
Take the eSATA cable shown below to connect to the eSATA ports of RX410 and Synology RackStation.



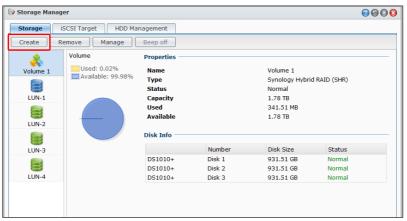
After the connection is complete, RX410 will be turned off automatically when the connected RackStation powers off.

Work with Synology RackStation

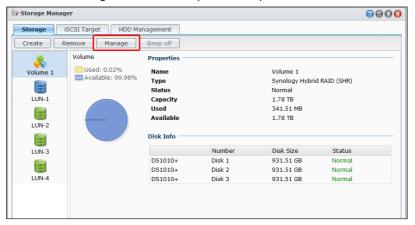
1 Open your DiskStation Manager with a web browser. Go to Main Menu > Control Panel > External Devices to confirm RX410 is connected to your RackStation.



- **2** Go to **Main Menu** > **Storage Manager** to manage RX410 for storage creation or expansion.
 - If you want to create a new volume with RX410, click Create and follow the Volume Creation Wizard to complete the creation.



If you want to expand the existing volume with RX410, select the
volume you want to expand from the volume list, click Manage, and follow
the Volume Manager Wizard to complete the expansion.



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

Important: Before starting to use RackStation with RX410, please see the following limitations of RX410.

- RX410 can be paired with only one RackStation.
- The data of applications (such as Photo Station and Audio Station) can be stored on RX410 only if you create an expanded volume with it. They will not be stored on RX410 if you create a new volume with it.
- Hard drives previously used in RackStation will not be readable by directly inserting them into RX410, and vise versa.

Learn More

Congratulations! Your RX410 is set up now. For more information or online resources about RX410, please visit www.synology.com.

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- 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

- 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.
- 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.