



ReadyDATA 5200 Installation Guide



350 East Plumeria Drive
San Jose, CA 95134
USA

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Support

Thank you for selecting NETGEAR products.

After installing your device, locate the serial number on the label of your product and use it to register your product at <https://my.netgear.com>. You must register your product before you can use NETGEAR telephone support. NETGEAR recommends registering your product through the NETGEAR website. For product updates and web support, visit <http://support.netgear.com>.

Phone (US & Canada only): 1-888-NETGEAR.

Phone (Other Countries): Check the list of phone numbers at <http://support.netgear.com/general/contact/default.aspx>.

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Compliance

For the current EU Declaration of Conformity, visit http://support.netgear.com/app/answers/detail/a_id/11621/.

Intended for indoor use only in all EU member states, EFTA states, and Switzerland.

2 Installation Overview

Thank you for purchasing the NETGEAR ReadyDATA™ 5200. This installation guide includes the following topics:

- *Review the Package Contents*
- *Prepare the Installation Site*
- *Install the System in a Rack*
- *Attach Cables*
- *Power Up the System*
- *Register Your Product*

For more information about the ReadyDATA 5200, see the following resources:

- **ReadyDATA 5200 Hardware Manual and ReadyDATA OS Software Manual.** Available on the *Resource CD* that came with your product. You can also obtain these manuals by clicking the ? icon in the 5200's Dashboard user interface.
- **Support web site.** Visit www.netgear.com.

Review the Package Contents

Your ReadyDATA 5200 package includes the following items:

- 5200 chassis
- Power cables
- Rack-mount hardware
- *Resource CD*

If you purchased an optional expansion disk array, the separate package contains the following items:

- Expansion disk array chassis
- SAS cascading cable
- Rack-mount hardware

You can purchase other accessories for your 5200, including these:

- Single-drive pack (SATA, SAS, or SSD)
- Six-drive pack (SATA or NL-SAS)
- 1 GbE or 10 GbE (SFP+) network interface card

If you purchased any of these accessories, they are in separate boxes from the 5200.

Prepare the Installation Site

Keep the following considerations in mind as you install your unit:

- **Ambient operating temperature.** If the unit is installed in a closed or multi-unit rack assembly, the ambient operating temperature of the rack environment might be greater than the ambient temperature of the room. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum rated ambient temperature.
- **Reduced airflow.** Mount the equipment into a rack so that the amount of airflow required for safe operation is not compromised.
- **Mechanical loading.** Mount the equipment into a rack so that a hazardous condition does not arise due to uneven mechanical loading.
- **Circuit overloading.** Consider the equipment's connection to the power supply circuitry and the effect that any possible overloading of circuits might have on overcurrent protection and power supply wiring. Consider equipment nameplate ratings when addressing this concern.
- **Reliable ground.** This product requires that a reliable ground be maintained at all times. To ensure this, ground the rack itself. Pay particular attention to power supply connections other than the direct connections to the branch circuit (for example, the use of power strips).
- **Setup location.** This product is intended for installation in a restricted access location (dedicated equipment rooms, service closets, and the like) only.
- **Clearance.** Leave enough clearance in front of the rack (about 25 inches) to enable you to open the front door completely and in the back of the rack (about 30 inches) to allow for sufficient airflow and ease in servicing.

Install the System in a Rack

Use the rack-mount hardware included with your ReadyDATA 5200 or your expansion disk array to install it in a rack.

Note that the left and right rails are not identical. The left rail is marked with a sticker bearing the letter L, and the right rail is marked with a sticker bearing the letter R. Each rail has an outer rail, a middle rail, and an inner rail. Do not exchange the inner rails of the left and right rails.

While installing the system into a rack, keep the ball bearing shuttle locked at the front of the middle rail during installation.

A minimum of two people are required for safe installation of the system.



DANGER:

A unit with installed drives can weigh more than 75 pounds. To avoid injury or damage to the equipment, perform the rack-mount installation with appropriate assistance.

Precautions

Follow these rack-mount precautions:

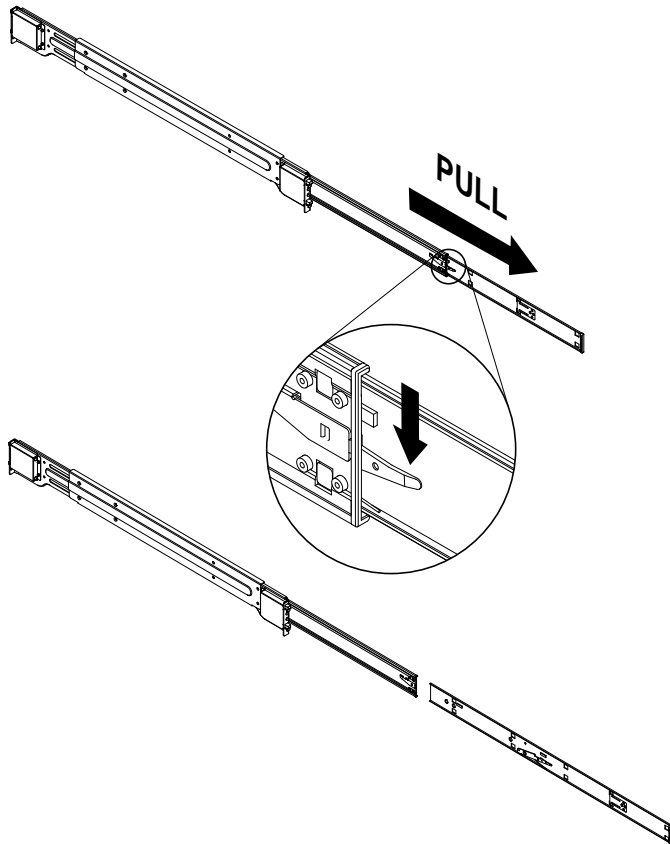
- Ensure that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on them.
- In single-rack installations, stabilizers should be attached to the rack. In multiple-rack installations, the racks should be coupled together.
- Always make sure the rack is stable before extending a component from the rack.
- You should extend only one component at a time; extending two or more simultaneously might cause the rack to become unstable.
- Review the electrical and general safety precautions that came with the components you are adding to your chassis.
- Determine the placement of each component in the rack *before* you install the rails.
- Install the heaviest components on the bottom of the rack first, and then work up.
- Use a regulating uninterruptible power supply (UPS) to protect the ReadyDATA 5200 from power surges and voltage spikes and to keep your system operating in case of a power failure.
- Allow any hot-plug drives and power supply modules to cool before touching them.
- Always keep the rack's front door and all panels and components on the servers closed when not servicing them to maintain proper cooling.

Rack Installation

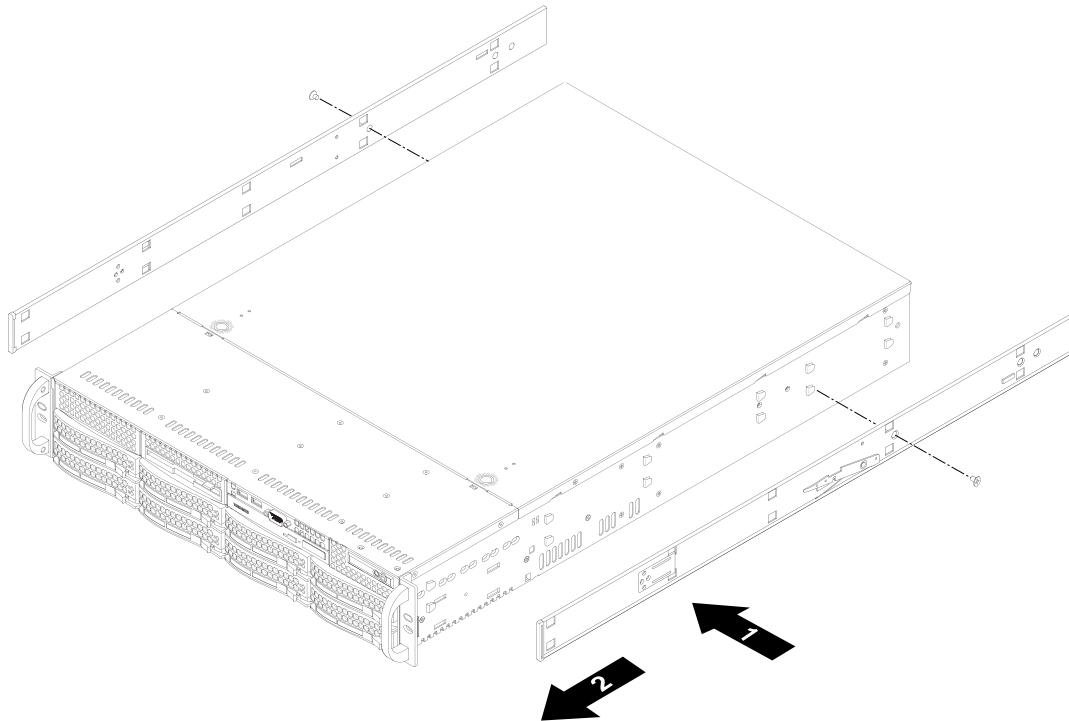
Read these instructions in their entirety before you begin.

➤ **To install the system into a rack:**

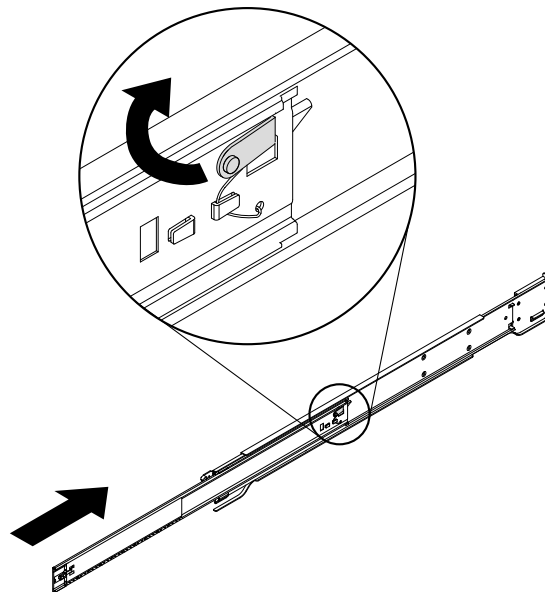
1. Using the left rail, pull the inner rail out of the outer rail until it is fully extended.
2. Press the locking tab down to release the inner rail and separate it from the outer and middle rails.



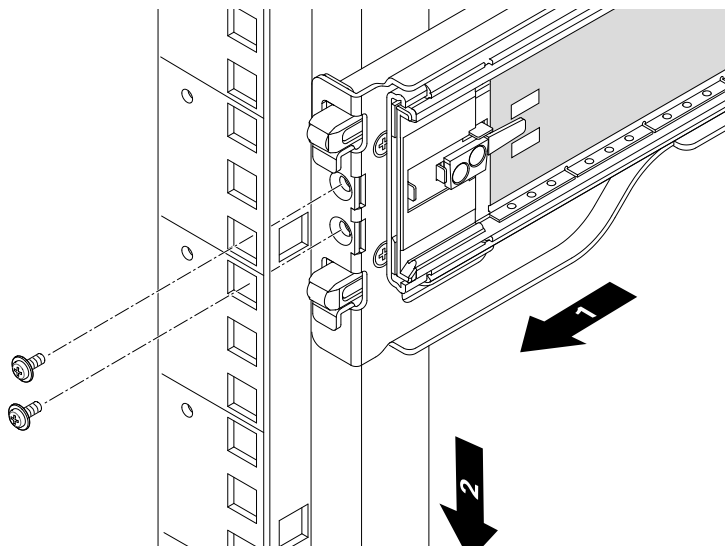
3. Place the inner rail firmly against the side of the system chassis, ensuring that the hooks on the chassis are straight and aligned with the holes in the inner rail.



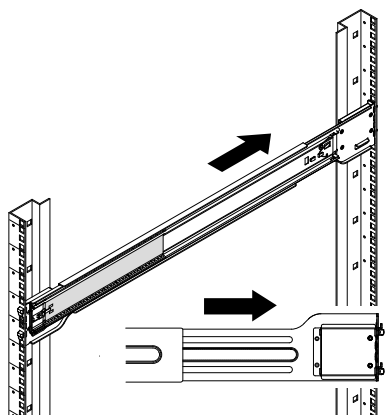
4. Slide the inner rail forward until it clicks into the locked position.
5. (Optional) Secure the inner rail to the chassis with a screw.
6. Repeat Step 1 through Step 5 with the right rail.
7. Using the left rail, Press the locking tab and push the middle rail back into the outer rail.



8. Hang the hooks on the front of the left rail on the rack holes, and if necessary, secure with screws.

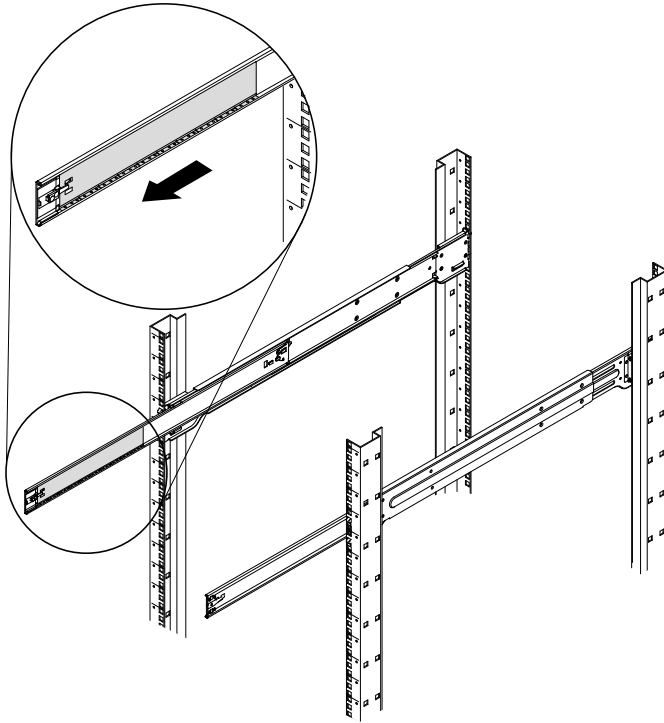


9. Repeat with the back of the left rail, extending as necessary.



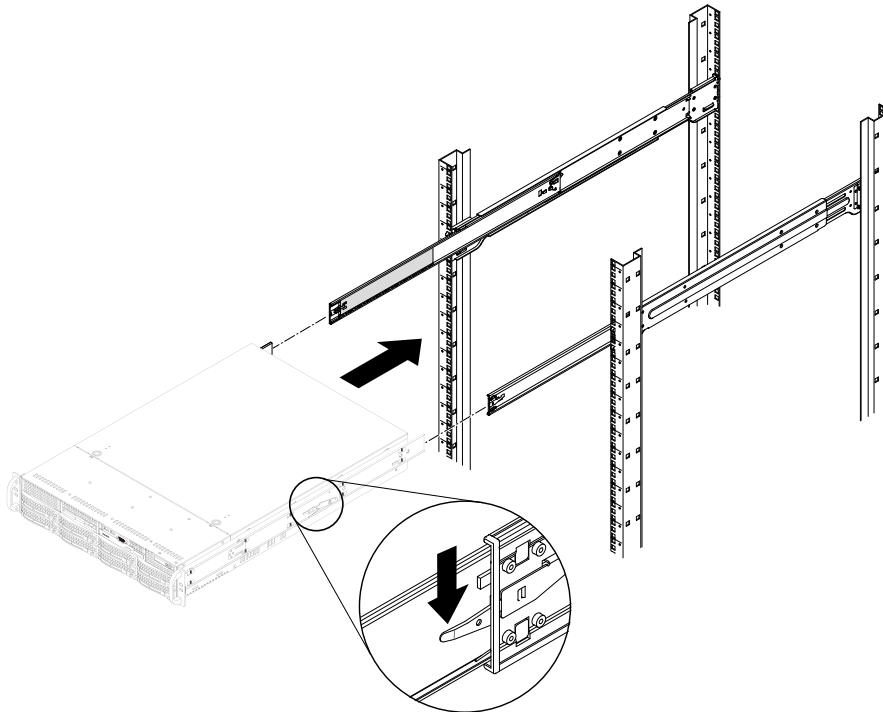
10. Repeat Step 7 through Step 9 with the right rail.

11. Using the left rail, pull the middle rail out of the front of the outer rail, ensuring that the ball bearing shuttle is locked at the front of the middle rail.



12. Repeat Step 11 with the right rail.

13. Hold the system chassis in front of the extended rails, aligning the inner rails with the middle rails, and push evenly on both sides of the chassis until it clicks into the fully extended position.



14. Depress the locking tabs on both sides of the chassis at the same time and push the chassis all the way to the back of the rack.
15. (Optional) Secure with screws.

Attach Cables

Before you power up your system, you must connect the power and network cables. If you have an optional expansion disk array, you must connect that while the ReadyDATA 5200 is powered down.

➤ **To attach cables:**

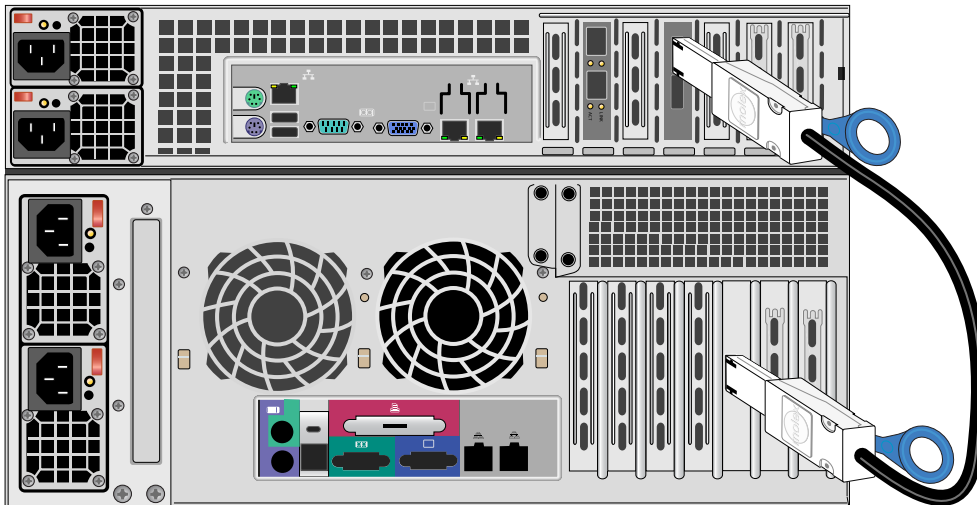
1. Attach each of the two power cables to the power supply ports on the back of the unit.
2. Connect the power cables to a power source.
3. Attach an Ethernet cable to the appropriate Ethernet port on the back of the unit.

You must attach at least one Ethernet cable. You can attach up to two 1 GbE cables and, depending on the model and accessories you purchased, you can also attach up to two 10 GbE cables.

4. Connect each Ethernet cable to an appropriate port on a network switch.

If you purchased an optional expansion disk array, connect the SAS cascading cable to the SAS input port on the back of the expansion disk array and to the SAS output port on the back of the ReadyDATA 5200.

Use SAS output port #1 first.



Power Up the System

You can power up the system with or without disks installed. You use the RAIDar utility to discover your ReadyDATA storage system on your network. RAIDar is included on the *Resource CD* that came with your unit. It includes versions for Windows, Mac, and Linux operating systems.

➤ **To power up the system:**

1. Install the appropriate version of RAIDar on a computer that is connected to the same local area network (LAN) as your ReadyDATA 5200.

Note: If you are using Windows XP before SP2, disable the Internet connection firewall.

2. Ensure that each power supply rocker switch on the back of the ReadyDATA 5200 is set to On and press the **Power** button.
3. Launch the RAIDar utility.

RAIDar displays a window that lists the ReadyDATA system or systems on your network and provides details about the status of each system it discovers. The volume, disk, UPS, and fan LED icons are not operational for the ReadyDATA 5200.

4. Highlight your ReadyDATA 5200 and click the **Setup** button.

RAIDar opens your default browser and prompts you to log in to the storage system.

5. Log in to your ReadyDATA 5200 using the default login credentials:

- **Default user name.** admin
- **Default password.** password

Both the user name and password are case-sensitive.

Dashboard, the browser-based management interface for the 5200, launches.

For more information about the 5200 chassis, see the *ReadyDATA 5200 Hardware Manual*.

For more information about configuring, managing, and maintaining your 5200, see the *ReadyDATA OS Software Manual*. Both documents are available on the *Resource CD* that came with your system.

Register Your Product

After installing your storage system, locate the serial number on the product label and use it to register your system at www.netgear.com/register. Registration is required before you can use the telephone support service. NETGEAR strongly recommends using this website to register your product.

For product updates and web support, visit www.netgear.com.