

Installation

NETGEAR®

Redundant Power System and Power Bank RPS4000 v2

The Redundant Power System and Power Bank RPS4000 v2 provides power system redundancy to external devices such as NETGEAR chassis switches, managed switches or smart switches that have an RPS capability.

Each RPS4000 v2 has four power module slots and a maximum output of 4000W when four APS1000W power modules are installed. The RPS4000 v2 supports switches using both A type and B type RPS designs. The RPS4000 v2 acts as a redundant power system in 12 VDC power systems and acts as a power bank in PoE (56 VDC) power systems.

Package Contents

This package includes:

- Redundant Power System and Power Bank RPS4000 v2
- AC power cable
- RPS cable, 60 cm (23.6 in.), 16 pin

LEDs

Power system indicators are listed in the following table:

Label	Color	Activity	Description	
PWR (Power)	Green	On	Power is being provided to the RPS4000.	
Power Module Status	Green	On	An APS1000W is present and working properly.	
	Yellow	On	An APS1000W is present and is not working properly.	
	Off	Off	There is no APS1000W present.	
RPS Port Status	Green	On	The device is a B type design and the APS1000W in the corresponding RPS port and Power Module slot is supplying power to the device.	
		Blinking	The device is a B type design but the APS1000W in the corresponding RPS port and Power Module slot is not supplying power to the device. Power is being supplied by the APS1000W in a different Power Module slot.	
	Yellow	On	The device is an A type design, and the APS1000W is providing power to the device.	
		Blinking	The device is an A type design, but the APS1000W is not supplying power to the device.	
	Off	Off	Off	No power is being supplied to the device or the device is not recognized.

RPS Ports

Each RPS port on the RPS4000W can provide a maximum of 1440W @ 56 VDC and 200W @ 11 VDC. Output power depends on the power modules installed and the Switch Type (Type) and Current Share (CS) switch settings.

The following switches are of the A RPS type and must use the A type setting.

Note: The Type setting has changed for v2. Type A is the same as Type Old, and Type B is the same as Type New.

FSM7328S	GSM7248v2	GSM7224P	GSM7352S V2H1
FSM7352S	GSM7212P	GSM7228PS V1H1	GSM752PS V1H1
FSM7226RS	GSM7212F	GSM7328 V1H1	GSM7328FS V1H1
FSM7250RS	GSM7224R	GSM7328 V2H1	
GSM7224v2	GSM7248R	GSM7352S V1H1	

For other switches, refer to the switch hardware installation guide on the NETGEAR support website to determine the RPS type.

Install the RPS4000 v2

Install the RPS4000 v2 in a standard 19-inch rack.

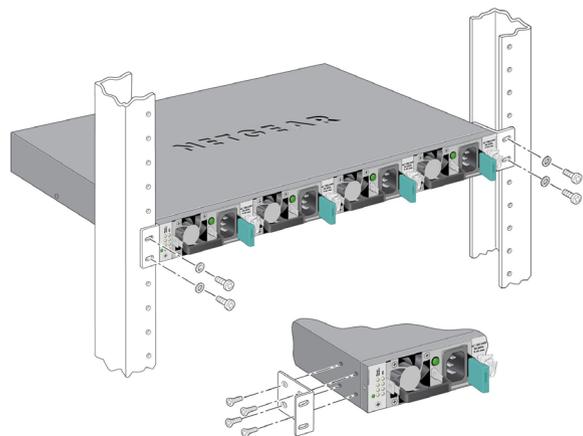
WARNING: Do not stack equipment, or place equipment in tight spaces or in drawers. Be sure that your equipment is surrounded by at least 2 inches (5 cm) of air space.

Install the RPS4000 v2 in a Rack

To install the RPS4000 v2 in a rack, you need the 19-inch rack-mount kit supplied with your RPS4000 v2.

➤ To install the RPS4000 v2:

1. Attach the supplied mounting brackets to the side of the RPS4000 v2.
2. Use the provided Phillips head screws to fasten the brackets to the sides of the RPS4000 v2.



3. Tighten the screws with a No. 1 Phillips screwdriver to secure each bracket.
4. Align the bracket and rack holes. Use two pan-head screws with nylon washers to fasten each bracket to the rack.
5. Tighten the screws with a No. 2 Phillips screwdriver to secure the switch in the rack.

Check the Installation

Before you apply power, perform the following checks:

1. Inspect the equipment thoroughly.
2. Verify that all cables are installed correctly.
3. Check cable routing to ensure that cables are not damaged and do not create a safety hazard.
4. Be sure that all equipment is mounted properly and securely.

Connect Switches to the RPS4000 v2

WARNING: To prevent an electrical hazard, make sure that the RPS AC power cord is not connected to the RPS before you install an APS1000W power module or connect the RPS to a switch.

1. Make sure an APS1000W power module is plugged into the corresponding power module slot before you connect a switch to an RPS4000 v2 RPS port.
2. Remove power to the APS1000W before connecting the switch.
3. Based on the RPS specification for the device, select the Type and CS switch settings. Refer to the RPS4000 v2 Hardware Installation Guide for configuration instructions for the RPS4000 v2.
4. Connect the device to the RPS port on the RPS4000 v2 using a NETGEAR RPS cable (60 cm, 16 pin).
5. Restore power to the APS1000W supplying the switch.

Specifications

Technical Specifications	
RPS port interface	4 NTGR RPS ports, 16 pin
Power	100–240 VAC, 50–60 Hz
Dimensions (H x W x D)	1.7 x 17.32 x 16.92 in. (43 x 440 x 430 mm)
Weight	12.8 lbs (5.8 Kg)
Operating temperature	0° to 50°C (32° to 104°F)
Operating humidity	90% maximum relative humidity, noncondensing
Safety agency approvals	UL, LVD, CB

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>.

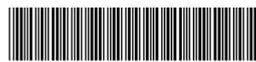
You must register your product before you can use NETGEAR telephone support. NETGEAR recommends registering your product through the NETGEAR website. For product updates and web support, visit <http://support.netgear.com>.

NETGEAR recommends that you use only the official NETGEAR support resources.

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

For regulatory compliance information, visit <http://www.netgear.com/about/regulatory/>.

See the regulatory compliance document before connecting the power supply.



201-18826-01

November 2014

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