

NETGEAR®

Hardware Installation Guide

PST4310 Half-Width PSU Tray for M4350-8M2V (MSM4310)

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This product is designed and warranted for indoor use only. Do not use this device outdoors.

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1

Introduction

This guide is for the PST4310 Half-Width PSU Tray for M4350-8M2V (MSM4310).

This product, which is referred to as the PSU tray throughout this guide, holds up to two 254W power adapters, that allows the M4350-8M2V switch to reach a maximum PoE budget of 551W. You can mount the PSU tray next to, above, or below the switch on a rack. You can also mount the PSU tray on a wall or on a table.

❗ **NOTE:** The PSU tray is compatible only with the M4350-8M2V switch model.

❗ **NOTE:** For more information on the PSU tray, including the product data sheet, visit the support website at netgear.com/support/.

Safety instructions and warnings

Use the following safety guidelines to ensure your own personal safety and to help protect your system from potential damage.

To reduce the risk of bodily injury, electrical shock, fire, and damage to the equipment, observe the following precautions:

- This product is designed for indoor use only in a temperature-controlled and humidity-controlled environment. Note the following:
 - For more information about the environment in which this product must operate, see the environmental specifications in the appendix or the data sheet.
 - If you want to connect the product to a device located outdoors, the outdoor device must be properly grounded and surge protected, and you must install an Ethernet surge protector inline between the indoor product and the outdoor device. Failure to do so can damage the product.
 - Before connecting the product to outdoor cables or devices, see <https://kb.netgear.com/000057103> for additional safety and warranty information.

Failure to follow these guidelines can result in damage to your NETGEAR product, which might not be covered by NETGEAR's warranty, to the extent permissible by applicable law.

- Observe and follow service markings:
 - Do not service any product except as explained in your product documentation. Some devices should never be opened.
 - If applicable to your product, opening or removing covers that are marked with the triangular symbol with a lightning bolt can expose you to electrical shock. We recommend that only a trained technician services components inside these compartments.
- If any of the following conditions occur, unplug the product from the power outlet, and then replace the part or contact your trained service provider:
 - Depending on your product, the power adapter, power adapter cable, power cable, extension cable, or plug is damaged.
 - An object fell into the product.
 - The product was exposed to water.
 - The product was dropped or damaged.
 - The product does not operate correctly when you follow the operating instructions.
- Keep the product away from radiators and heat sources. Also, do not block cooling vents.

- Do not spill food or liquids on your product components, and never operate the product in a wet environment. If the product gets wet, see the appropriate section in your troubleshooting guide, or contact your trained service provider.
- Do not push any objects into the openings of your product. Doing so can cause fire or electric shock by shorting out interior components.
- Use the product only with approved equipment.
- If applicable to your product, allow the product to cool before removing covers or touching internal components.
- Operate the product only from the type of external power source indicated on the electrical ratings label. If you are not sure of the type of power source required, consult your service provider or local power company.
- To avoid damaging your system, if your product uses a power supply with a voltage selector, be sure that the selector is set to match the power at your location:
 - 115V, 60 Hz in most of North and South America and some Far Eastern countries such as South Korea and Taiwan
 - 100V, 50 Hz in eastern Japan and 100V, 60 Hz in western Japan
 - 230V, 50 Hz in most of Europe, the Middle East, and the Far East
- Be sure that attached devices are electrically rated to operate with the power available in your location.
- Depending on your product, use only a supplied power adapter or approved power cable:

If your product uses a power adapter:

- If you were not provided with a power adapter, contact your local NETGEAR reseller.
- The power adapter must be rated for the product and for the voltage and current marked on the product electrical ratings label.

If your product uses a power cable:

- If you were not provided with a power cable for your system or for any AC-powered option intended for your system, purchase a power cable approved for your country.
- The power cable must be rated for the product and for the voltage and current marked on the product electrical ratings label. The voltage and current rating of the cable must be greater than the ratings marked on the product.
- To help prevent electric shock, plug the system and peripheral power cables into properly grounded power outlets.
- If applicable to your product, the peripheral power cables are equipped with three-prong plugs to help ensure proper grounding. Do not use adapter plugs or

remove the grounding prong from a cable. If you must use an extension cable, use a three-wire cable with properly grounded plugs.

- Observe extension cable and power strip ratings. Make sure that the total ampere rating of all products plugged into the extension cable or power strip does not exceed 80 percent of the ampere ratings limit for the extension cable or power strip.
- To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or uninterruptible power supply (UPS).
- Position system cables, power adapter cables, or power cables carefully. Route cables so that they cannot be stepped on or tripped over. Be sure that nothing rests on any cables.
- Do not modify power adapters, power adapter cables, power cables or plugs. Consult a licensed electrician or your power company for site modifications.
- Always follow your local and national wiring rules.

2

Installation

This chapter describes the installation procedures for the half-width PSU Tray.

The PSU tray installation involves the steps that are described in the following sections:

- [Unpack a half-width PSU tray](#)
- [Assemble a half-width PSU tray](#)
- [Install a half-width PSU tray with a half-width switch in a rack](#)
- [Install a single half-width PSU tray in a rack](#)
- [Install two half-width PSU trays in a rack](#)
- [Detach two connected half-width PSU trays](#)
- [Mount the PSU tray on a wall or on a table](#)

Unpack a half-width PSU tray

The following figure shows the package contents for the half-width PSU tray.

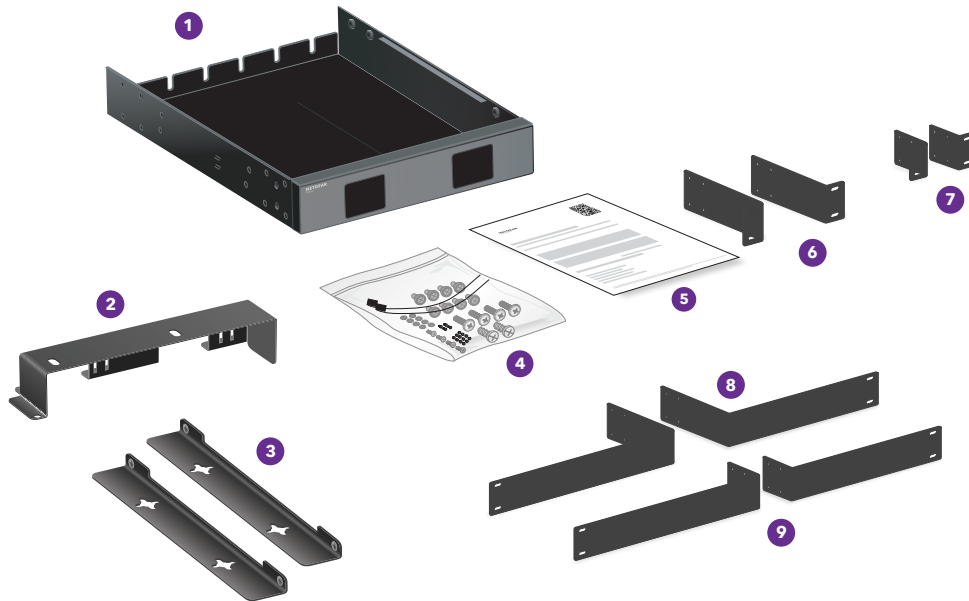


Figure 1. Package contents for an M4350 series half-width PSU tray

To check the package contents:

1. Place the container on a clean flat surface, and cut all straps securing the container.
2. Unpack the hardware from the boxes by carefully removing the hardware and placing it on a secure and clean surface.
3. Remove all packing material.
4. Verify that the package contains the following items:

Number	Description
1	PSU tray
2	PSU tray cover bracket
3	Two PSU tray mounting brackets Use both these brackets to mount the PSU tray on a wall or under a table.
4	A bag with the following screws and washers for mounting:

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(Continued)

Number	Description
	Eight small black screws to attach the brackets to the PSU tray (four small screws for each side).
	Four small black round head screws to attach the PSU tray cover bracket to the PSU tray.
	Four small silver screws to attach the mounting brackets to the PSU tray for table or wall mounting.
	Four medium-sized screws to attach the brackets to the rack (two screws for each side).
	Four large screws to attach the brackets to the rack or to mount to a table or a wall (two screws for each side). Note: Depending on the type of rack, use either the medium-sized screws or the large screws to attach the brackets to the rack.
	Four wall plugs to secure screws when mounting the PSU tray to a wall or a table.
	Eight washers for use with the medium-sized screws and large screws.
	Eight shoulder screws to attach the PSU tray to another half-width PSU tray.
	Two cable ties to gather PSU cables.
5	QR code flyer. Scan the QR code on this flyer to access product documentation from the NETGEAR Download Center at netgear.com/support/download .

(Continued)

Number	Description
6	Two medium-sized brackets with a depth of 4.75 in. Use these brackets as follows: • Use one bracket in combination with a large bracket with a depth of 4.75 in. to mount a single half-width PSU tray at the left or right side of the rack. The combination of these brackets is for set-back mounting. • Use both of these brackets to mount two connected half-width PSU trays in a rack. These brackets are for set-back mounting.
7	Two small brackets with a depth of 2.75 in. Use these brackets as follows: • Use one bracket in combination with a large bracket with a depth of 2.75 in. to mount a single half-width PSU tray at the left or right side of the rack. The combination of these brackets is for flush mounting. • Use both of these brackets to mount two connected half-width PSU trays in a rack. These brackets are for flush mounting.
8	Two large brackets with a depth of 4.75 in. (12 cm) for mounting a single half-width in a rack. These brackets are for set-back mounting. Use one of these brackets to mount the PSU tray at the left or right side of the rack.
9	Two large brackets with a depth of 2.75 in. (7 cm) for mounting a single half-width PSU tray in a rack. These bracket are for flush mounting. Use one of these brackets to mount the PSU tray at the left or right side of the rack.

! NOTE: To assemble, install and detach the PSU tray, use No. 1, No. 2 Phillips and slotted screwdrivers. These screwdrivers are not included in the package contents.

5. If any item is missing or damaged, contact your local NETGEAR reseller for replacement.

Assemble a half-width PSU tray

To assemble a half-width PSU tray:

1. Place the tray on a secure and clean surface.
2. Slide each 254W power adapter into the tray, ensuring the AC power receptacle is facing the front panel of the tray, where the square holes are located.
3. Place the cover bracket on the edge of the power adapters that is opposite to the front panel, and align the mounting holes in the bracket with the holes in the tray.
4. Insert the three small screws through the bracket and onto the tray, then tighten the screws with a No. 2 Phillips screwdriver.

5. Gather the power cables located at the bottom of the power adapters and secure them using one or more cable ties.
6. To mount the half-width PSU tray, do one of the following:
 - a. Install a PSU tray with a half-width PSU tray in a rack on page 12
 - b. Install a single half-width PSU tray in a rack on page 15
 - c. Install two half-width PSU trays in a rack on page 17
 - d. Mount the PSU tray on a wall or under a table on page 21
7. Connect the end of the power cables to the AC power receptacles on the back of the M4350-8M2V switch.
8. Insert a power cable with C14 connector into the AC power receptacle of each power adapter through the front panel of the tray.
9. Plug the power cable into a power source such as a wall socket or power strip.
10. On the back panel of the M4350-8M2V switch, turn the **On/Off** power switch to the **On** position.

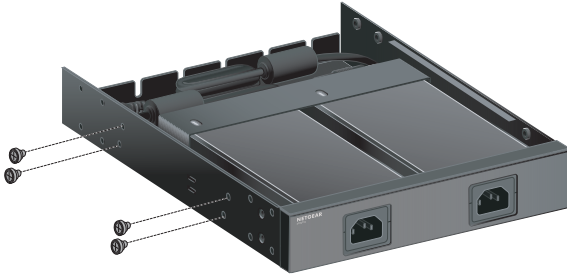
Install a half-width PSU tray with a half-width switch in a rack

To install a half-width PSU tray with a half-width switch in a single rack space, you need the rack-mount kit supplied with the PSU tray or switch. Depending on the depth of the rack, you can install the PSU tray and the switch with flush-mounting or set-back mounting in a standard 19 in. wide rack.

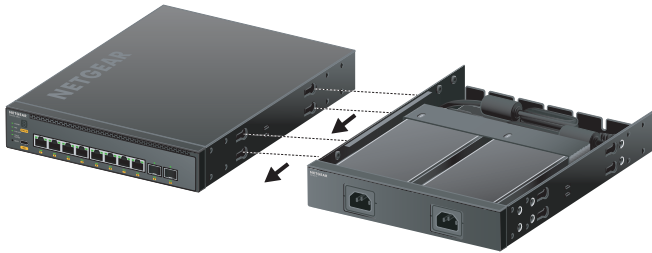
You can install the PSU tray on the left or the right of the switch. The following procedure shows how to install the PSU tray at the left of the switch.

To install a half-width PSU tray with a half-width switch in a single rack space:

1. On the PSU tray, do the following:
 - a. On the right side of the PSU tray, insert the washers and four shoulder screws provided in the rack-mount kit of one of the PSU trays.



- b. Tighten the screws with a No. 2 Phillips screwdriver to secure them to the PSU tray. When secured, the screw heads stick out.
2. On the switch, align the holes on the left side of the switch with the screw heads on the right side of the PSU tray at the left side of the rack.



3. Insert the screw heads into the holes and slide the PSU tray back until the two PSU trays are locked and aligned.



4. Attach the brackets supplied in the mounting kit to the left side of the left PSU tray and to the right side of the switch by inserting the small screws through each bracket and into the mounting holes in the trays.
 - **Flush-mounting example:** Use the small brackets with a depth of 2.75 in. (7 cm) and the small screws.
 - **Set-back mounting example:** Use the medium-sized brackets with a depth of 4.75 in. (12 cm) and the small screws.
5. Tighten the screws with a No. 1 Phillips screwdriver to secure each bracket to the PSU tray and switch.
6. Align the mounting holes in the brackets (on the left of the PSU tray and on the right of the switch) with the holes in the rack, and depending on the rack, insert the medium-sized or large screws through each bracket and into the rack.

- **Flush-mounting example**



- **Set-back mounting example**



7. Tighten the screws with a No. 2 Phillips screwdriver to secure the brackets to the rack.

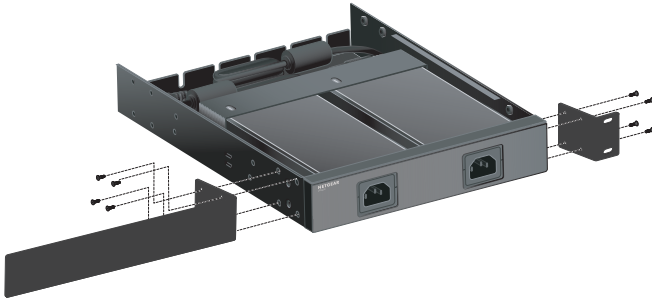
Install a single half-width PSU tray in a rack

To install a single half-width PSU tray in a single rack space, you need the rack-mount kit supplied with the tray. Depending on the depth of the rack, you can install the PSU tray with flush-mounting or set-back mounting in a standard 19 in. wide rack.

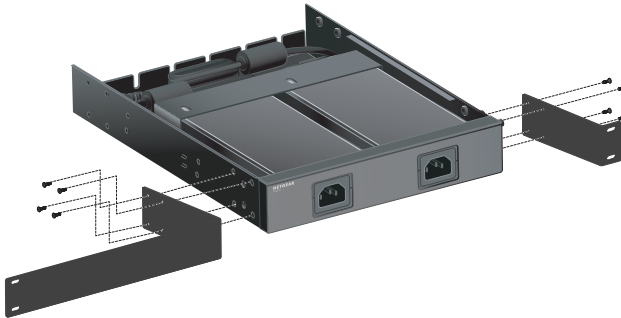
You can install the single PSU tray at the left or right side of the rack. The following procedure shows how to install the PSU tray at the right side.

To install a single half-width PSU tray in a single rack space:

1. Attach the supplied small or medium-sized brackets and large brackets to the tray, using the supplied small screws:
 - **Flush-mounting example:** On one side, use a small bracket with a depth of 2.75 in. (7 cm), on the other side use a large bracket with a depth of 2.75 in. and the small screws.

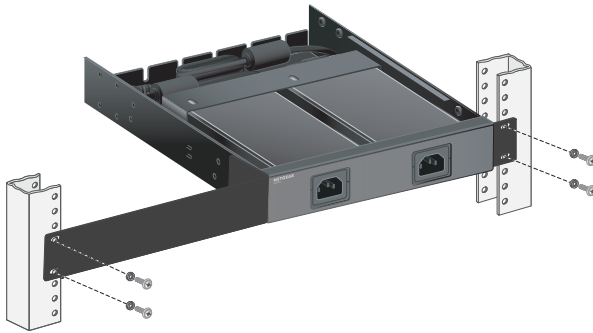


- **Set-back mounting example:** On one side, use a medium-sized bracket with a depth of 4.75 in. (12 cm), on the other side use a large bracket with a depth of 4.75 in. and the small screws.

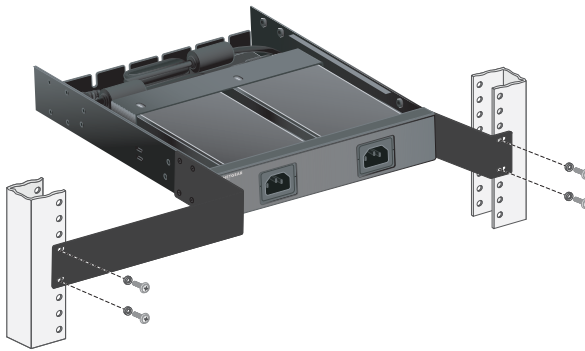


2. Tighten the screws with a No. 1 Phillips screwdriver to secure each bracket to the tray.
3. Align the mounting holes in the brackets with the holes in the rack, and depending on the rack, insert the medium-sized or large screws through each bracket and into the rack.

- **Flush-mounting example:**



- **Set-back mounting example**



4. Tighten the screws with a No. 2 Phillips screwdriver to secure the brackets to the rack.

Install two half-width PSU trays in a rack

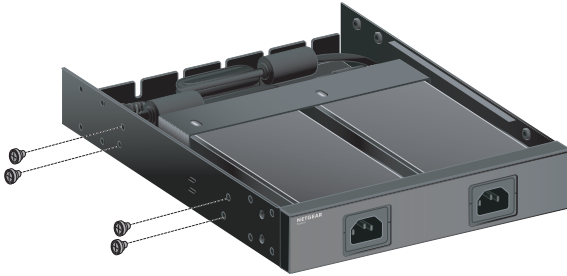
To install two half-width PSU trays in a single rack space, you need the rack-mount kit supplied with one of the PSU trays. Depending on the depth of the rack, you can install the PSU trays with flush-mounting or set-back mounting in a standard 19 in. wide rack.

To install two single half-width PSU trays in a single rack space:

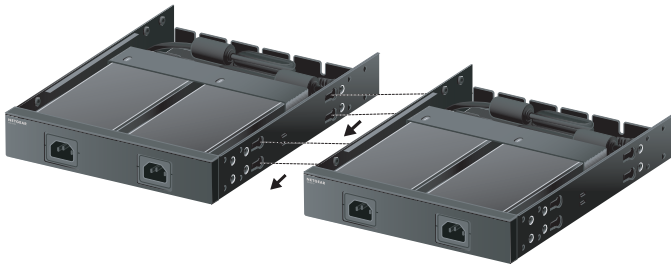
1. On the PSU tray that will be at the right side of the rack space, do the following:

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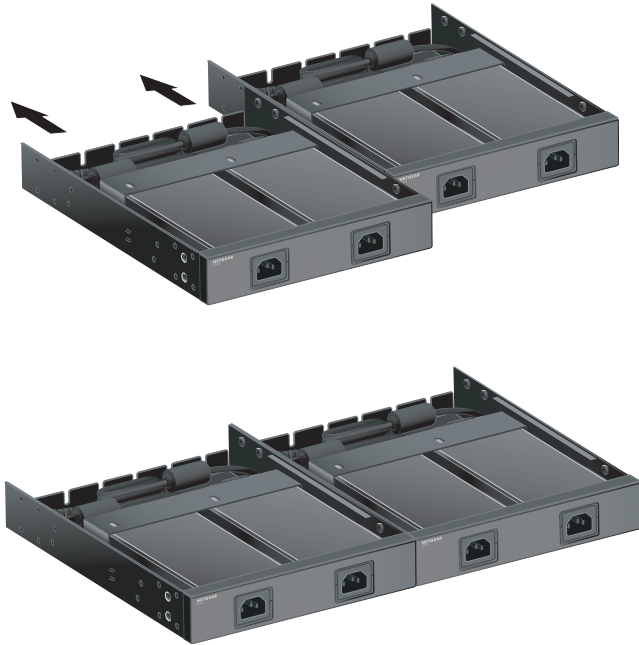
- a. On the left side of the PSU tray, insert the washers and four shoulder screws provided in the rack-mount kit of one of the PSU trays.



- b. Tighten the screws with a No. 2 Phillips screwdriver to secure them to the PSU tray. When secured, the screw heads stick out.
2. On the PSU tray at the left side of the rack space, align the holes on the right side of the PSU tray with the screw heads on the left side of the PSU tray at the right side of the rack.

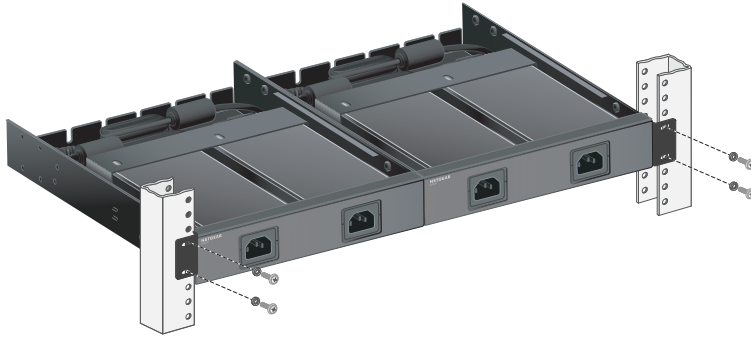


3. Insert the screw heads into the holes and slide the left PSU tray back until the two PSU trays are locked and aligned.

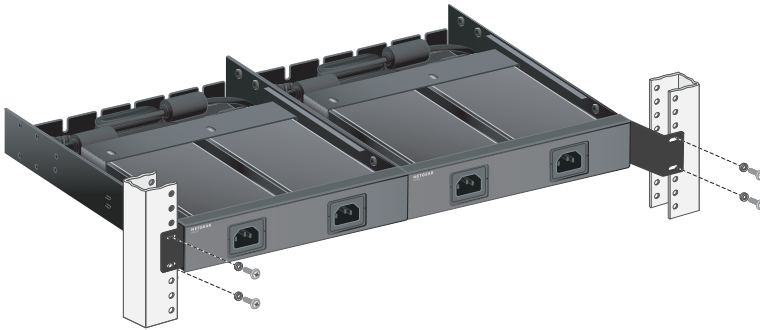


4. Attach the brackets supplied in the mounting kit to the left side of the left PSU tray and to the right side of the right PSU tray by inserting the small screws through each bracket and into the mounting holes in the trays.
 - **Flush-mounting example:** Use the small brackets with a depth of 2.75 in. (7 cm) and the small screws.
 - **Set-back mounting example:** Use the medium-sized brackets with a depth of 4.75 in. (12 cm) and the small screws.
5. Tighten the screws with a No. 1 Phillips screwdriver to secure each bracket to the PSU tray.
6. Align the mounting holes in the brackets (on the left of the left PSU tray and on the right of the right PSU tray) with the holes in the rack, and depending on the rack, insert the medium-sized or large screws through each bracket and into the rack.

- **Flush-mounting example**



- **Set-back mounting example**



7. Tighten the screws with a No. 2 Phillips screwdriver to secure the brackets to the rack.

Detach two connected half-width PSU trays

After you detach and remove two connected half-width PSU trays from a rack, follow the steps in this procedure to detach the PSU trays from each other.

To detach two connected half-width PSU trays:

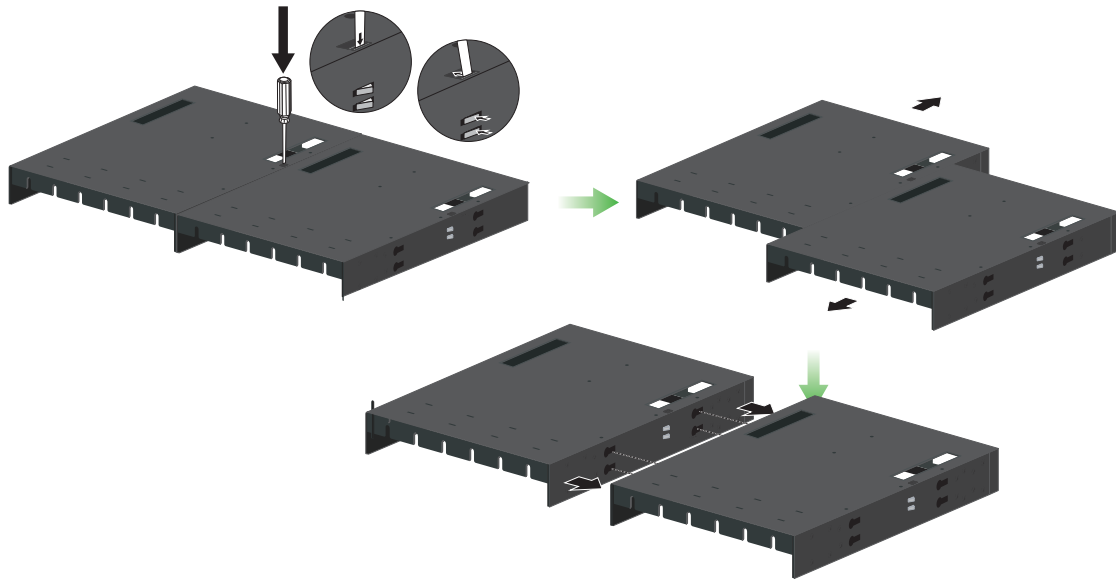
1. Disconnect the PSUs in each tray from the power sources and switches.
2. Place the connected PSU trays on a flat surface.
3. Remove the cover bracket with a No. 2 Phillips screwdriver and remove the PSUs from the trays.
4. Place the connected PSU trays upside down on a flat surface.

5. At the bottom of one of the PSU trays, locate the small rectangular hole that is closest to the other PSU tray.

A small metal blade presses against one side of the hole.

6. Insert the tip of a slotted screwdriver between the metal blade and the side of the hole.
7. Force the metal blade away from the side, unlocking the two PSU trays.
8. With the PSU trays unlocked, push them apart until the screws at the side of one PSU tray align with the holes on the side of the other PSU tray.
9. Pull the screws from the holes and detach the PSU trays.

⚠ CAUTION: After unlocking the PSU trays, be careful with the metal hooks that extend from the side of one of the PSU trays. Although the hooks are not sharp, they stand out from the side.

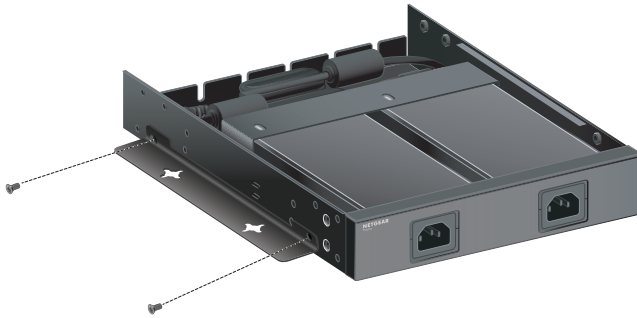


Mount the PSU tray on a wall or on a table

To mount the PSU tray on a wall or on a table, you need the wall or table mount brackets supplied with the tray.

To mount the PSU tray on a wall or on a table:

1. Align the two mounting holes on the each side of the PSU tray with the holes on the side of the mounting bracket.
2. Attach the mounting brackets supplied in the mounting kit to the left and right side of the tray by inserting the small screws through each bracket and into the mounting holes on the tray.



3. Tighten the screws with a No. 2 Phillips screwdriver to secure each bracket to the tray.
4. Using the holes in each bracket as a guide, mark and drill four mounting holes in the wall or on the table.
5. Insert four wall plugs and four large screws through each bracket, securing them into the wall or the table.

