

External Power Supply Installation

Dell PowerSwitch N2200-ON and N3200-ON/E3200-ON Series Switches

Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

N-Series EPS installation

These instructions explain the external power supply (EPS) installation for the Dell PowerSwitch N2200-ON and N3200-ON/E3200-ON full-width and half-width switches. You can use the optional EPS on a desktop, wall mount, or in a rack.

- The model name of the EPS Shelf with one PSU is MPS-1S.
- The model name of the EPS Shelf with three PSUs is MPS-3S.

NOTE: For switch installation instructions, see the switch-specific *Dell PowerSwitch Installation Guide* at www.dell.com/support.

Regulatory models

- Model number E51W
- RTN: E51W001 for one slot
- RTN: E51W003 for three slots

Document revision history

Table 1. Revision history

Revision	Date	Description
A03	2023-07	Updated to include information about MPS-3S port locations.
A02	2022-09	Updated to include the E3200-ON Series switches.
A01	2021-04	Minor corrections to the <i>MPS-1S wall mount</i> section.
A00	2020-01	Initial release.

MPS-3S overview

The MPS-3S EPS shelf front ports are shown below:

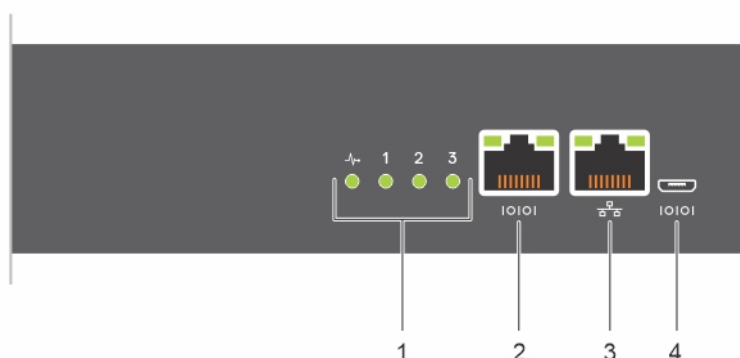


Table 2. MPS-3S front view port descriptions

Number	Description
1	Port LEDs

Table 2. MPS-3S front view port descriptions (continued)

Number	Description
2	Serial Ethernet port
3	RJ45 port
4	Serial console port

NOTE: The Console and Ethernet ports are used for debugging and firmware updates by service personnel only, and are not available for use to the end user.

Topics:

- [Desktop mount](#)
- [MPS-1S two-post installation](#)
- [MPS-3S two-post installation](#)
- [MPS-1S wall mount](#)
- [Important information](#)

Desktop mount

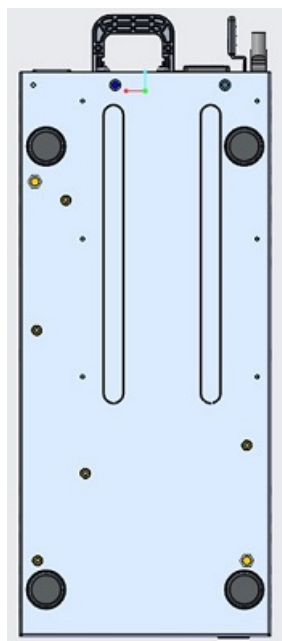
To use the EPS on a desktop, first attach the four small rubber feet to the underside of the switch.

1. Locate the four rubber feet shipped with the EPS.

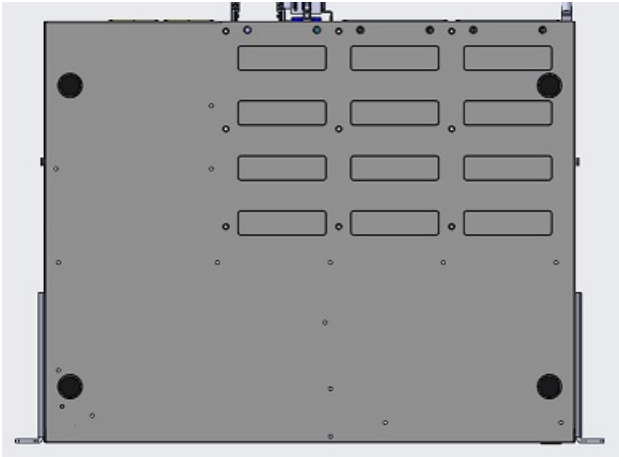


2. Remove the paper backing on the bottom of one of the rubber feet.
3. Adhere the rubber foot to one of the four round position marks on the underside of the switch.
4. Repeat the process for the remaining three rubber feet.

MPS-1S:



MPS-3S



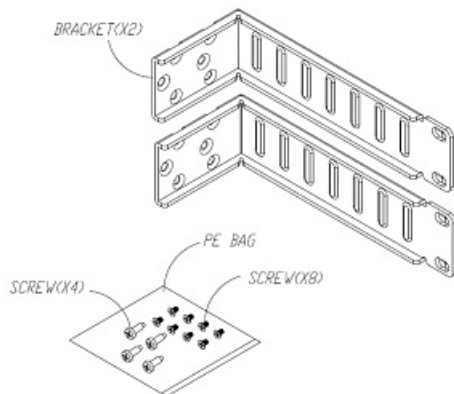
5. Turn the switch over and place on a desktop.

MPS-1S two-post installation

This installation procedure describes how to install an MPS-1S self in a two-post rack. Use L-brackets for front, five-inch-offset, or rear-mount two-post installation.

These mounting supplies ship with the MPS-1S.

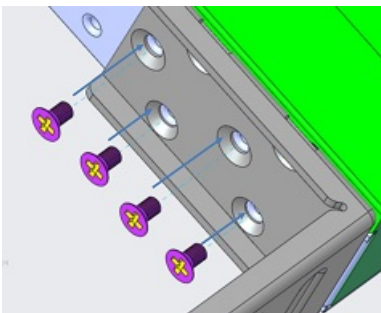
1. Remove the two L-brackets and screws from the shipping box.



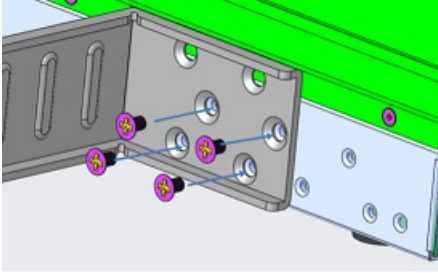
2. Screw one L-bracket to the switch using the four M4 screws (length 6.8 mm).
Install the brackets to the switch in front, five-inch-offset, or rear mounting positions, as shown.
 - For front-mount: The mounting bracket and bracket ears face the front of the EPS.
 - For five-inch-offset mount: The mounting bracket is at the front of the EPS with the bracket ears facing the back of the EPS.
 - For rear-mount: The mounting bracket and bracket ears face the back of the EPS.

Torque the screws to 10 inch-lbs.

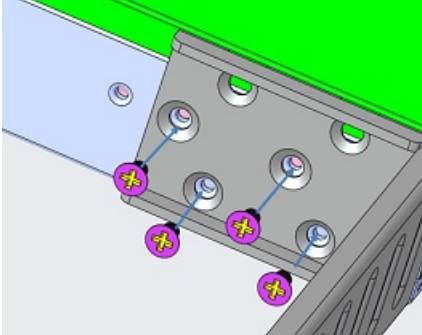
Front mount



5-inch offset mount

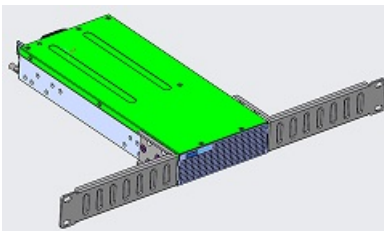


Rear mount

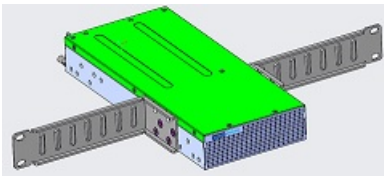


3. Repeat with the second single-switch L-bracket.

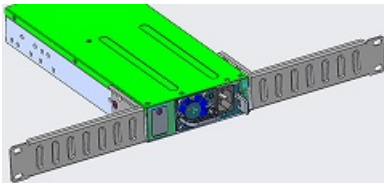
Front mount



5-inch offset mount



Rear mount



4. Screw the single-switch L-bracket to the two-post rack using two M4 screws (length 6.8 mm) for each bracket. Torque the screws to 10 inch-lbs.

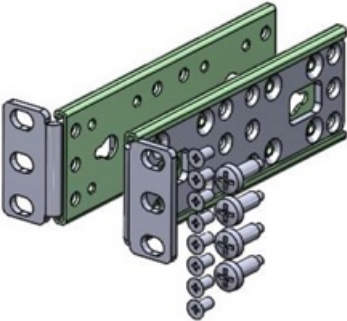
To remove the switch from the two-post rack, remove the four screws from the two-post rack and slide the switch from the rack.

MPS-3S two-post installation

This installation procedure is for the three-slot EPS shelf. Use mounting brackets for front, 5-inch offset, or rear-mount two-post installation.

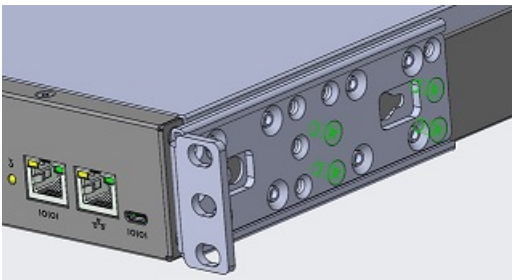
These mounting supplies ship with the MPS-3S.

1. Locate the mounting brackets and screws that ship with the EPS.

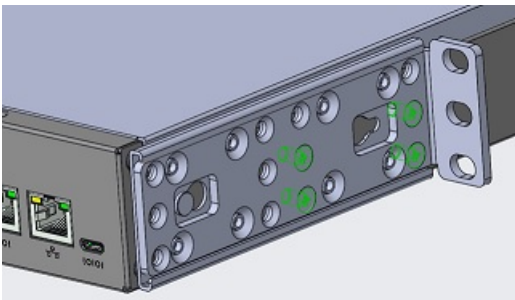


2. Insert the mounting brackets onto the mushroom head on each side of the EPS and slide the mounting bracket back to lock it into place.
 - For front-mount: The mounting bracket and bracket ears face the front of the EPS.
 - For five-inch-offset mount: The mounting bracket is at the front of the EPS with the bracket ears facing the back of the EPS.
 - For rear-mount: The mounting bracket and bracket ears face the back of the EPS.
3. Attach the mounting brackets to the switch using four screws for each bracket.
Torque the screws to 10 inch-lbs.

Front-mount

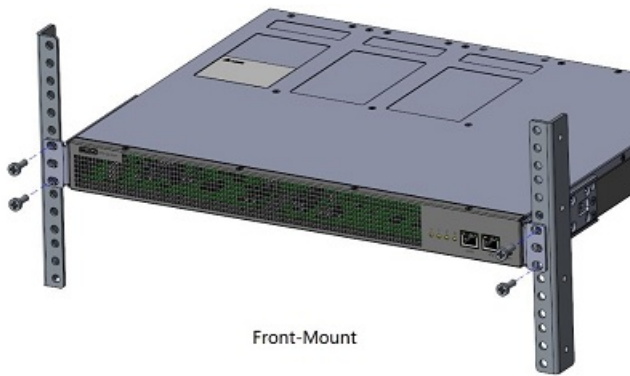


Five-inch-offset mount



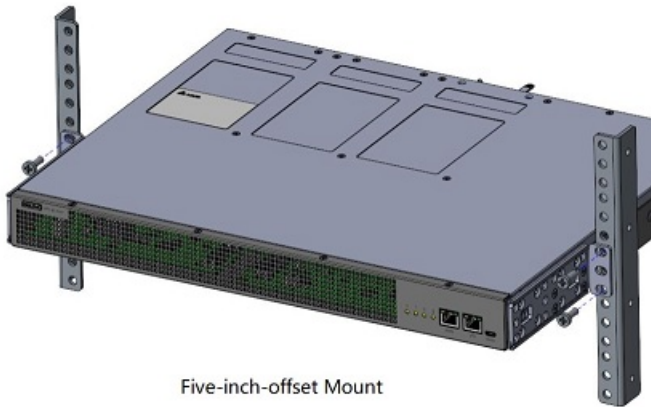
4. Slide the EPS into the two-post rack until the mounting bracket ears line up with the rack.

Front-mount



Front-Mount

Five-inch-offset mount



Five-inch-offset Mount

5. Attach the switch to the two-post rack using two #12-24 screws on each side.
To remove the switch from the rack, unscrew the four #12-24 rack-mounting screws.

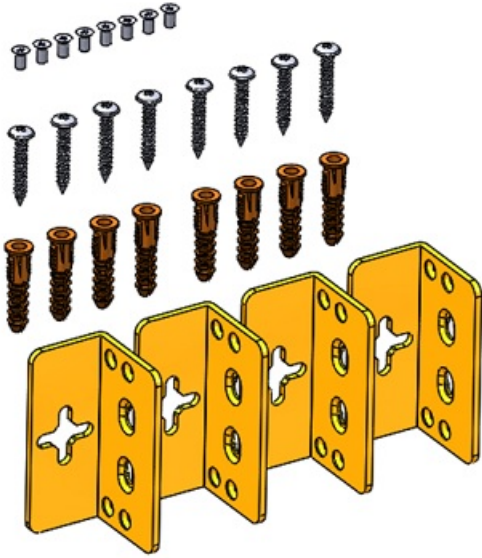
MPS-1S wall mount

Use the four wall-mount brackets to attach an external power supply (EPS) to the wall.

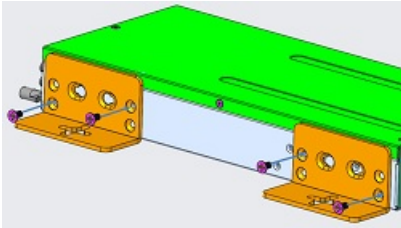
NOTE: Do not wall mount the EPS with the front panel/PSU facing up or down.

You need a drill and a pencil to complete this procedure. This procedure applies to one EPS.

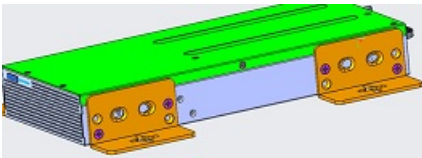
1. Remove the wall-mount brackets, wall anchors, and screws from the shipping bag.
This procedure uses four wall mount anchors, four M5 screws (length 16 mm), and eight M4 screws (length 6.8 mm).



2. Screw two brackets to the left side of the EPS using the M4 screws (length 6.8 mm) for each bracket, as shown. Torque the screws to 10 in-lbs.



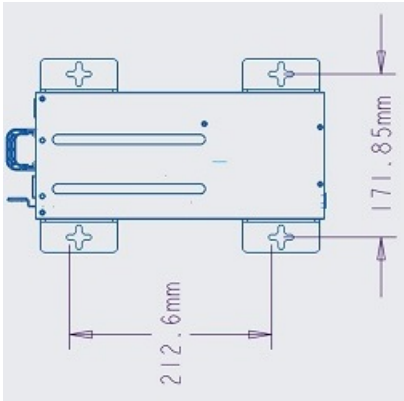
3. Repeat to attach two brackets to the right side of the EPS, as shown.



4. Hold the EPS or wall-mount template to the wall and mark the screw-hole locations on the wall with the pencil. Wall mount locations for MPS-1S are approximately 8.37 in x 6.76 in (212.60 mm x 171.85 mm) (L x W).



5. Drill four 0.3 in (8 mm) holes in the wall at the pencil marks.



6. Install four wall-mount anchors into the four holes.
7. Screw four M5 screws into the four wall-mount anchors leaving approximately 0.20 in (5 mm) gap between the anchor and the screw.
8. Slide the EPS onto the screws and tighten the screws to secure the EPS in place.
Torque the screws to 24 in-lbs.

Important information

The following is information that you must have to safely use the EPS:

About Notes, Cautions, Warnings

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WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

Installation

WARNING: This equipment must be earthed. Connect the power plug to a properly wired earth ground socket outlet.

NOTE: Install the switch equipment in restricted access areas.

A restricted access area is one in which service personnel can only gain access using a special tool, lock, key or other means of security. The authority responsible for the location controls access to the restricted area.


Console and Ethernet ports


The Console and Ethernet ports are used for debugging and firmware updates by service personnel only, and are not available for use to the end user.

Ground cable

To attach a ground cable to the switch, use the included M4 screws (length 6.8 mm). The ground cable is not included. The grounding lugs must be a UL-recognized, crimp-type lug.


CAUTION: Grounding conductors must be made of copper. Do not use aluminum conductors.

 **NOTE:** Coat the one-hole lug with an antioxidant compound before crimping. Also, bring any unplated mating surfaces to a shiny finish and coat with an before mating. Plated mating surfaces must be clean and free from contamination.

 **NOTE:** The rack installation ears are not suitable for grounding.

To connect the ground cable to the switch:

1. Cut your user-supplied ground cable to the wanted length. The cable length must facilitate proper operation of the fault interrupt circuits. Use the shortest cable route allowable.
2. Crimp the ground cable inside the preinstalled ground lug.
3. Attach the other end of the ground cable to a suitable ground point such as the rack or cabinet.

 **NOTE:** Always secure the DC output cable to the output terminal block when EPS operating.

Visual display workplaces

This device is not intended for use in the direct field of view at visual display workplaces. To avoid incommoding reflexions at visual display workplaces this device must not be placed in the direct field of view.

Bemerkung: Dieses Gerät ist nicht für den Einsatz im direkten Sichtfeld am Bildschirmarbeitsplatz vorgesehen. Um störende Reflexionen am Bildschirmarbeitsplatz zu vermeiden, darf dieses Gerät nicht im direkten Sichtfeld platziert werden.