

Rack Requirements and Specifications for an EX-series Switch

You can mount an EX-series switch in a rack. If you are installing multiple EX-series switches to function as a virtual chassis, you must install the switches in a rack. Table 1 on page 1 provides the rack requirements and specifications for an EX-series switch.

Table 1: Rack Requirements and Specifications for an EX-series Switch

| Rack Requirement | Guidelines |
|---------------------------------------|--|
| Rack type | Use a front-mount rack, four-post (telco) rack, or a center-mount rack. |
| Rack size and strength | <ul style="list-style-type: none"> ■ Ensure that the rack complies with one of these standards: <ul style="list-style-type: none"> ■ A 19-in. rack as defined in <i>Cabinets, Racks, Panels, and Associated Equipment</i> (document number EIA-310-D) published by the Electronics Industry Association (http://www.eia.org). ■ A 600-mm rack as defined in the four-part <i>Equipment Engineering (EE); European telecommunications standard for equipment practice</i> (document numbers ETS 300 119-1 through 119-4) published by the European Telecommunications Standards Institute (http://www.etsi.org). The horizontal spacing between the rails in a rack that complies with this standard is usually wider than the switch's mounting brackets, which measure 19 in. (48.2 cm) from outer edge to outer edge. Use approved wing devices to narrow the opening between the rails as required. ■ Ensure that the rack rails are spaced widely enough to accommodate the switch chassis' external dimensions. See Table 2 on page 1. ■ Ensure that the spacing of rails and adjacent racks allows for the proper clearance around the switch and rack. |
| Rack connection to building structure | <ul style="list-style-type: none"> ■ Secure the rack to the building structure. ■ If earthquakes are a possibility in your geographical area, secure the rack to the floor. ■ Secure the rack to the ceiling brackets as well as wall or floor brackets if maximum stability is required. |

One pair of mounting brackets is supplied with the EX-series switch. The holes in the mounting brackets are spaced at 1 U (1.75 in. or 4.445 cm), so the switch can be mounted in any rack that provides holes spaced at that distance.

The outer edges of the mounting brackets extend the width of either chassis to 19 in. (48.2 cm), and the front of the chassis extends approximately 0.5 in. (1.27 cm) beyond the mounting brackets. The spacing of rails and adjacent racks must also allow for the clearances around the switch and rack.

Table 2: EX-series Switches—External Dimensions

| Switch Model | Dimensions |
|--|--|
| EX 3200, EX 4200 (without mounting brackets) | 1.75 in. (4.445 cm) high, 17.25 in. (43.815 cm), and 17 in. (43.18 cm) deep. |
| EX 3200, EX 4200 (with mounting brackets) | 1.75 in. (4.445 cm) high, 17.25 in. (43.815 cm), and 19 in. (48.2 cm) deep. |

Related Topics ■ EX-series Switch Chassis Physical Specifications

- Rack-Mounting Requirements and Warnings
- Clearance Requirements for Airflow and Hardware Maintenance