



Cabinet and Rack Requirements

This appendix describes the cabinet and rack requirements for the Cisco Nexus 7000 Series switches and includes these sections:

- [General Requirements for Cabinets and Racks, page B-1](#)
- [Cabinet Vendors, page B-2](#)

General Requirements for Cabinets and Racks

This section provides the Cisco Nexus 7000 Series requirements for the following types of racks and cabinets, assuming an external ambient air temperature range of 32 to 104°F (0 to 40°C):

- Standard perforated cabinets
- Solid-walled cabinets with a roof fan tray (bottom to top cooling)
- Standard open racks
- Four-post telco racks



Note

If you select an enclosed cabinet, we recommend that you use one of the following thermally validated types: standard perforated or solid-walled with a fan tray.

To correctly install the Cisco Nexus 7000 Series switch in a hot-aisle/cold-aisle environment, you should fit a cabinet with baffles to prevent exhaust air from recirculating into the chassis air intake.

The rack or cabinet used to hold a Cisco Nexus 7000 Series chassis should meet the following physical requirements:

- Use a standard 19-inch, four-post Electronic Industries Alliance (EIA) cabinet or rack with mounting rails that conform to English universal hole spacing per section 1 of the ANSI/EIA-310-D-1992 standard.
- The height of the rack or cabinet must accommodate one or two Cisco Nexus 7000 Series switches as follows:
 - For the Cisco Nexus 7010 switch, the rack height must be at least 21 RU for one chassis and 42 RU for two chassis (45 RU is recommended).
 - For the Cisco Nexus 7018 switch, the rack height must be at least 25 RU for one chassis and 50 RU for two chassis.

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- The depth must be 24 inches (61.0 cm) to 32 inches (81.3 cm) between the front and rear mounting brackets.

Additionally, you must consider the following site requirements for the rack:

- AC power receptacles must be located within 12 feet (3.6 m) of each power supply unit in each chassis.
- Cable management for one or two switches in the same rack are as follows:
 - For the Cisco Nexus 7010 switch, provide cable management for up to 384 ports for each chassis.
 - For the Cisco Nexus 7018 switch, provide cable management for up to 768 ports for each chassis.
- Cable routing within the cabinet or beside the rack must not block access to any of the removable modules installed in a chassis or block any airflow on the inlet and exhaust vents of the chassis. With cabinets, route the cables out the top or bottom as follows:
 - For the Cisco Nexus 7010 switch, route the cables through the cable management area on the top front of the switch.
 - For the Cisco Nexus 7018 switch, route the cables along the left side of the front of the chassis so that cooling air can flow to the chassis from the right front side and heated exhaust air is vented to the left and directed to the hot aisle in the rear. If necessary, you can also route cables to the upper half of the right side of the chassis if the lower right side of the front is open for airflow from the cold-aisle and floor to the air intake.
- Where necessary, have a seismic rating of Network Equipment Building Standards (NEBS) Zone 3 or Zone 4, per GR-63-CORE if required.
- Minimum gross load rating of 2000 lbs. (907.2 kg) (static load rating) if supporting two switches.

Cabinet Vendors

The verified cabinet vendors for the Cisco Nexus 7000 Series switches are listed in [Table B-1](#).

Table B-1 **Verified Cabinet Vendors**

Switch	Vendors
Cisco Nexus 7010	Panduit Chatsworth
Cisco Nexus 7018	Panduit