Rack Installation Instructions

Read these guidelines first

Review the documentation that comes with the rack for safety and cabling information. Before you install the server in a rack, read the following guidelines:

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- Two or more people are required to install 2U/4U or larger devices in a rack.
- Some illustrations might differ from your server. All types of server are removed and installed in a similar manner.
- See the Maintenance Manual for the maximum room air temperature.
- Install the server only in a rack that has perforated doors.
- Do not block any air vents, usually 15 cm (6 inches) of air space provides proper airflow.
- Plan the device installation starting from the bottom of the rack.
- Install the heaviest device in the bottom of the rack.
- Do not leave open space above or below an installed server in your rack. To help prevent damage to server components, always install a filler panel to cover the open space and to help ensure proper air circulation.
- Do not extend more than one device out of the rack at the same time.
- · Connect all power cords to properly wired and grounded electrical outlets.
- Do not overload the power outlet when installing multiple devices in the rack.
- Remove the rack doors and side panels to provide easier access during installation.
- Install the server in a rack that meets the following requirements:
 - Minimum depth of 70 mm (2.76 inches) between the front mounting flange and inside of the front door.
 - Minimum depth of 190 mm (7.48 inches) between the rear mounting flange and inside of the rear door.
 - The maximum distance between the front and the rear EIA flange of the rack is 810 mm (31.9 inches).
 - If you want to install the rails and a 0U PDU into the same rack, the rack must meet the following height and depth requirements:
 - 42U or higher
 - ThinkSystem Toolless Friction Rail: at least 1000-mm (39.37-inch) deep

Table 1. Safety notice



CAUTION: Use safe practices when lifting



 \geq 18.0 kg (39.7 lb)

< 32.0 kg (70.5 lb)



≥ 32.0 kg (70.5 lb)

< 55.0 kg (121.2 lb)



≥ 55.0 kg (121.2 lb) < 100.0 kg (220.5 lb)

CAUTION: Do not place ant objects on the top of the rack-



Package items

mounted devices

Information below shows the items that you need to install the server in a rack. If any items are missing or damaged, contact your place of purchase.

ThinkSystem Toolless Friction Rail:

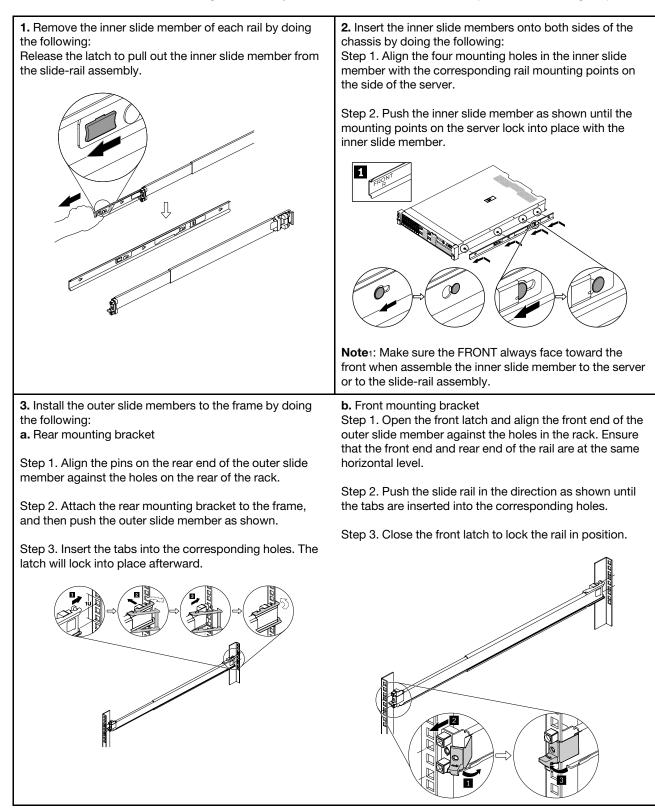
- One left rail and one right rail
- Two M5 screws

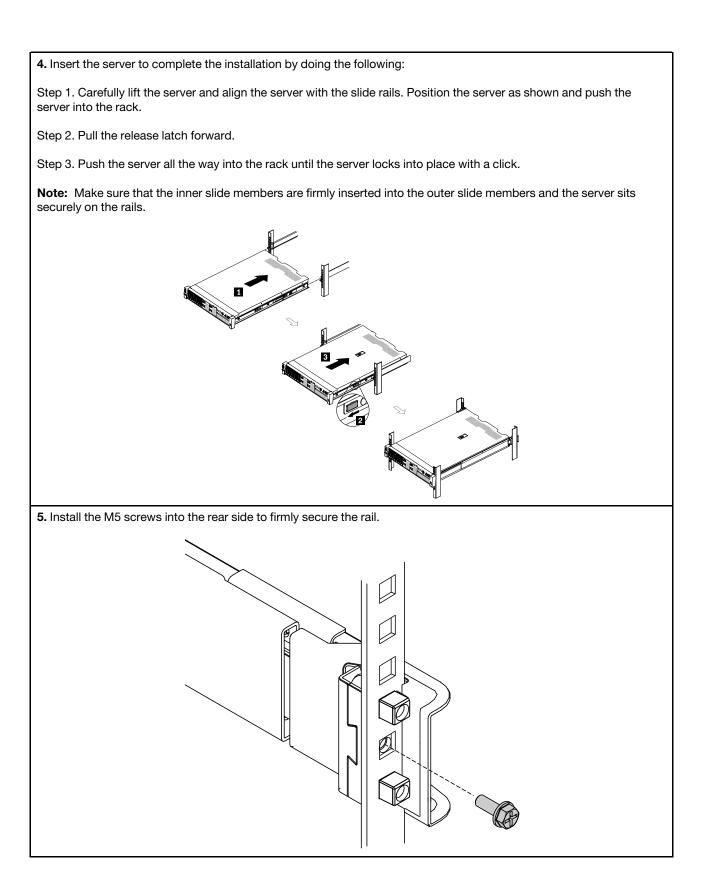
Table 2. The length of the rail

Rail	ThinkSystem Toolless Friction Rail
Rail length	728.1 mm (28.6 inches)

ThinkSystem Toolless Friction Rail

To install a server into a rack using the ThinkSystem Toolless Friction Rail, complete the following steps:





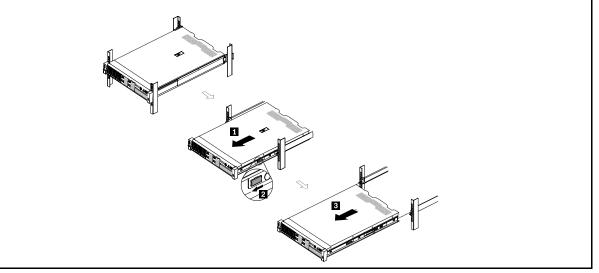
To remove a server from a rack using the ThinkSystem Toolless Friction Rail, complete the following steps:

Remove the server from the rail by doing the following: Step 1. Disconnect all cables from the rear server. Open the rack release latch in the front of the server, then; slowly slide the server out until it stops.

Step 2. Pull the release latch forward.

Note: Make sure you read Table 1 "Safety notice" on page 2 for lifting requirements before perform step 3.

Step 3. Carefully pull the server out of the rack.



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