Important information about the ThinkServer Slide Rail Kit and Cable Management Arm

This document provides important information about the ThinkServer® Slide Rail Kit and Cable Management Arm. Store the document in a safe place for reference.

Before you install a server into the rack cabinet, you need one set of rails. If you also want to manage your cables, contact your local Service Provider to order a 1U or 2U cable management arm. For more information about the cable management arm, refer to the later part of this document.

Your rail kit package contains:
- One set of 1U or 2U rails
- Two screws: M5 x 0.8 thread
- Documentation:
  - A printed English version of this document is included in your package. Some other language versions are in Portable Document Format (PDF) and provided on the documentation DVD that comes with your server.

If you have ordered a 1U or 2U cable management arm, it will be shipped in a separate package together with your rail kit. If any item is missing or damaged, contact your place of purchase. Ensure that you retain your proof of purchase and packing material. They might be required to receive warranty service.

About the rack cabinet

CAUTION: Be sure to read and understand the documentation that comes with the rack cabinet for safety and cabling information.

Before you install a server into the rack cabinet, also ensure that you read and understand all the related safety information for the server and review the guidelines in this document. Reading and understanding the information reduces the risk of personal injury and or damage to your product.

The rack cabinet must meet either of the following requirements:
- Standard 4-post (square-hole), 19-inch rack configuration compliant with EIA-310-E as defined by the Electronic Industries Alliance
- Standard 4-post (unthreaded round-hole), 19-inch rack configuration compliant with EIA-310-E as defined by the Electronic Industries Alliance

The dimensions of the rack cabinet must meet the following requirements:

<table>
<thead>
<tr>
<th>Item</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>947 – 914 mm (37.4 – 35.98 inches)</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>474 mm (18.66 inches)</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>&gt; 60 mm (2.36 inches)</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>&gt; 950 mm (37.4 inches)</td>
<td></td>
</tr>
</tbody>
</table>

The following table explains the dimension requirements of the rack cabinet:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>The distance must exceed 950 mm (37.4 inches). This clearance is used to save adequate space for the cable management arm.</td>
</tr>
<tr>
<td>B</td>
<td>The distance between the front mounting flange and the rear mounting flange.</td>
</tr>
<tr>
<td>C</td>
<td>The distance must exceed 60 mm (2.36 inches). This clearance is required for the chassis pull handles.</td>
</tr>
<tr>
<td>D</td>
<td>The distance between the mounting flange and the rear of the rack cabinet. The distance must exceed 900 mm (37.4 inches). This clearance is used to save adequate space for the cable management arm.</td>
</tr>
</tbody>
</table>

Read these guidelines first

Before you install the server into a rack cabinet, review the following guidelines to help you in your installation and avoid the risk of personal injury and or damage to your product:

- Two or more people are required to lift a server, move a server, or install a server into a rack cabinet if the server meets one of the following criteria:
  - The server is 2U or longer ("U" is the unit of measurement for defining the vertical space used by your server and 1U is equivalent to 44.45 cm or 1.75 inches)
  - The server weighs over 18 kg (39.7 lb).

- Do not leave open spaces above or below an installed server in your rack cabinet. To help prevent damage to server components, always install a blank filler panel to cover the open space and to help ensure proper airflow.

- Install the server only in a rack cabinet with perforated doors for both security and proper airflow.

- Install the heaviest server or device in the bottom of the rack cabinet.

- Do not extend more than one server or device out of the rack cabinet at the same time.

- If possible, remove the doors and side panels of the rack cabinet to provide easier access during installation.

- Do not overload the electrical outlet when you install multiple devices in the rack cabinet.

- Connect all power cords to proper electrical outlets and refer to the documentation that comes with the rack cabinet for cabling information.

- Do not install a blank filler panel to cover the open space and to help ensure proper airflow.

- Install the server only in a rack cabinet with perforated doors for both security and proper airflow.

This document includes the following diagrams:

1. The rack cabinet front door
2. The rack-cabinet front door
3. The rail kit installation instructions

Installing a server into a rack cabinet (with the slide rail kit)

Note: If your server is already installed in a rack cabinet, go to the cable management arm installation part.

Before you begin, remove all the parts from the rail kit package and lay all the parts on a working surface. The length of each slide rail ranges from 85 cm (25.6 inches) when collapsed to 90 cm (35.4 inches) when fully extended. Measure the rack before the installation to ensure that the rack can accommodate the slide rail.

The 1U rails look slightly different from the 2U rails, but the installation method is the same. To install a server into a rack cabinet, do the following:

Part 1: Install the rail kit.

Note: The holes in a mounting flange are divided into groups by measuring marks. The three holes between two adjacent measuring marks form a group, which indicates 1U space. Note the measuring marks on a mounting flange to help you correctly select a rack mounting area for the server. For more information about the placement of the holes in a mounting flange, refer to the documentation that comes with the rack cabinet.

1. Install the front end of the left slide rail.

2. Install the rear end of the left slide rail.

3. Repeat steps 1 and 2 to install the right slide rail to the opposite side of the rack cabinet.

4. If your server is already installed in a rack cabinet, go to the cable management arm installation part.

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Note: The holes in a mounting flange are divided into groups by measuring marks. The three holes between two adjacent measuring marks form a group, which indicates 1U space. Note the measuring marks on a mounting flange to help you correctly select a rack mounting area for the server. For more information about the placement of the holes in a mounting flange, refer to the documentation that comes with the rack cabinet.

1. Install the front end of the left slide rail.

2. Install the rear end of the left slide rail.

3. Repeat steps 1 and 2 to install the right slide rail to the opposite side of the rack cabinet.
Part II: Install the server.

1. Fully extend the inner rails on both sides until the inner rails cannot be pulled out further.

2. Position the server as shown in the following illustration. Mount and secure the pair of rail mounting points at the rear first. Then, mount and secure the pair of rail mounting points. And then, mount and secure the pair of rail mounting points. Finally, hold and press the slide rails towards the server until the rail mounting points are locked into place.

3. Press the latch on both sides at the same time to release the inner rails. Carefully slide the inner rails with the server into the rack cabinet.

4. When you ship the rack cabinet with the server installed, secure the server before shipping. Install the two screws (included in your rail kit package) into the screw holes in the rack handles of the server. After shipping and rack deployment, you can remove the screws.

Installing the cable management arm (if available)

To install the cable management arm, do the following:

1. Turn to the rear of the rack cabinet.

2. Note the orientation of the cable management arm. If needed, press button to rotate arm-rail joint by 180 degrees.

3. Connect the cable management arm to the slide rails. Ensure that the rear ends of the slide rails are inserted into the corresponding arm-rail joints and correctly.

4. Refer to the following figure to route cables from the server.

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