Rail Option Kit Installation Guide for Intel® ISP1100 Internet Server

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Introduction

This document explains how to install the Intel ISP1100 Internet Server in a four post rack with sliding rails.

Before you begin:

1. Make sure you have the following parts:
   - Two (2) rail assemblies
   - Two (2) front brackets (short)
   - Two (2) rear brackets (long)
   - Ten (10) 10/24 x 0.25" panhead phillips screws to attach the chassis sections to the server
   - Ten (10) 8/32 x 0.38" flathead countersunk phillips screws to attach the brackets to rack sections; also includes (10) sets of lock washers, washers, and nuts
2. Make sure you have the following tools:
   - A phillips (cross-head) screwdriver
   - An 11/32" nut driver
3. Read the safety and warnings information in the *Intel® ISP1100 Internet Server Quick Start Guide*.

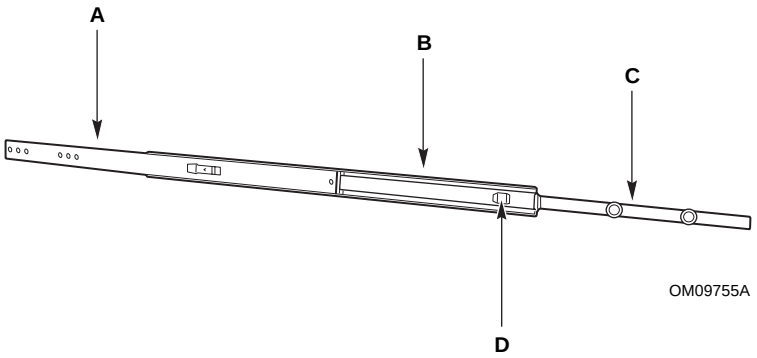
   Note: The slides included in this kit are rated for 50 pounds of load per pair of slides for general use for 10,000 cycles of opening and closing. Higher cycles or frequency will lower the load rating. Low-cycle applications will allow an increase in load rating. A load ratio of 2:1 can be applied to all slides as a proof load. This proof load is for static test only when the slide is in the fully open position and not to be cycled. In the closed position, the slide can accept up to five times the slide load rating. The load rating only applies when the slides are mounted to the sides of the chassis.

4. **Make sure the server is turned off and is not plugged in to an electrical outlet.**

Remove Chassis Sections from Rail Assemblies

For each rail assembly:

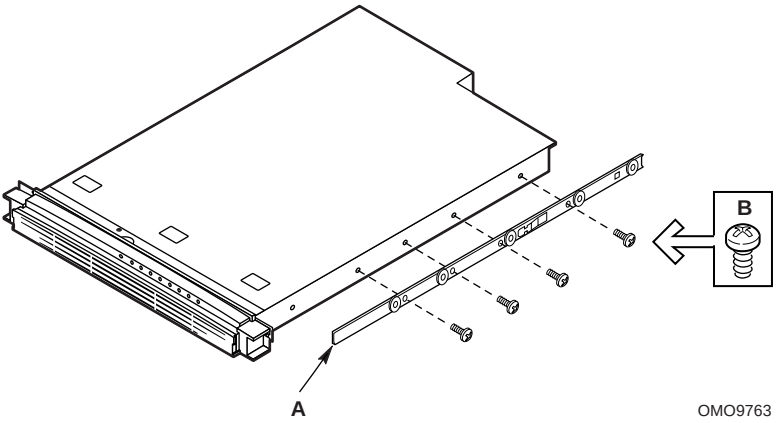
1. Slide the rack section (A) out of the slider section (B) until it locks.
2. Slide the chassis section (C) out of the slider section until it locks, then press the lock arm (D) on the chassis section to release it from the slider section.
3. Pull the chassis section out of the slider section.



Attach the Chassis Sections to the Server

On each side of the server:

1. Align the holes in the chassis section (A) with the holes in the server. Do not use the front hole on the server.
2. Fasten the chassis section to side of the server with four 10/24 x 0.25” panhead phillips screws (B).

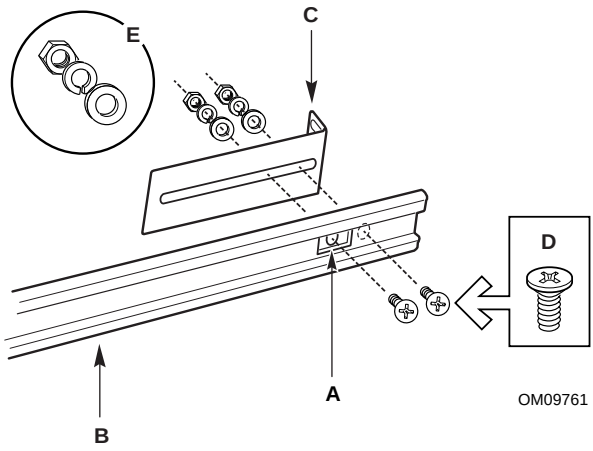


Attach the Brackets to the Rail Assemblies

The brackets attach to the rack sections of the rail assemblies and then to the rack. Each rail assembly needs a front and a rear bracket.

Attaching the Front Bracket

1. Slide the rack section so the screw holes show through the rectangular opening (A) in the slider section (B).
2. Place the front bracket (C) against the rack section as shown.
3. Line up the slot in the bracket with the holes in the rack section.
4. Fasten the front bracket to rack section with two 8/32 x 0.38" flathead countersunk phillips screws (D). Each screw takes a regular washer, a lock washer and a nut (E). Put the washers and nut on in the order shown.



Attaching the Rear Bracket

There are two steps to attaching the rear bracket:

1. Determine where to attach the bracket.

   The bracket attaches to the back end of the rack section. However, the exact placement depends on the depth of your rack. Because the rack section is a fixed length, you use the bracket placement to set the rail assembly length so the rail assembly fits your rack.

You set the length by choosing which of the bracket's slots to use, and by sliding the bracket in or out.

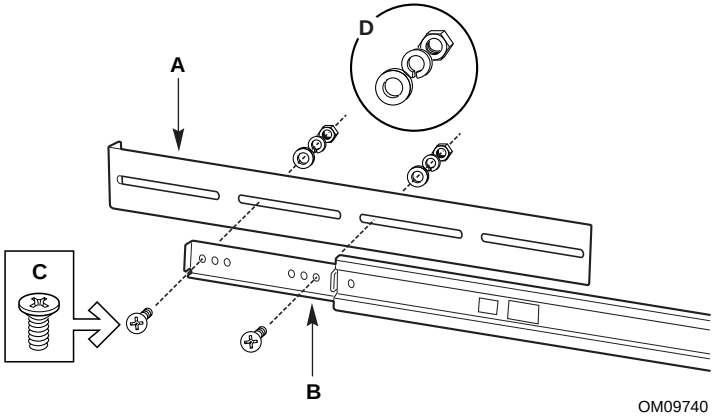
- Hold the rail assembly in the rack to determine which slots to use in the bracket, and to determine the rail assembly length.
- Loosely attach the bracket to the rack section of the rail assembly.

  Use two 8/32 x 0.38" flathead countersunk phillips screws (C). Each screw requires a regular washer, a lock washer and a nut, added in the order shown (D). Spread the screws as far apart on the rail assembly as you can to distribute the load. You may also use the extra screw provided, but it is not necessary.

  Attach the bracket loosely enough so it can slide against the rack section. This allows you to adjust the length of the rail assembly to fit your rack.

2. Fasten the bracket to the rail assembly.

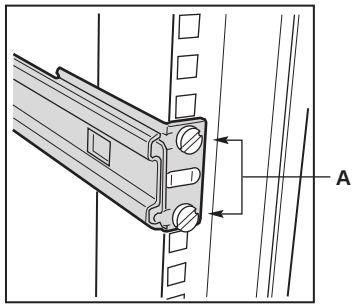
   Tighten the screws holding the rear bracket to the rack section. Be careful not to move the rear bracket while you are tightening the screws.



Install the Assembled Rails in the Rack

For each assembled rail:

1. Fasten the front bracket to the rack using two screws (A) provided with the rack.



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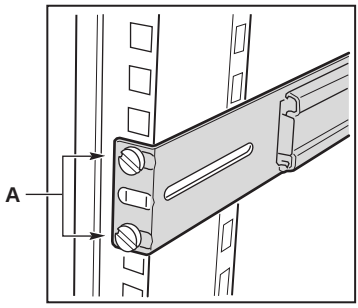
2. Fasten the rear bracket to the rack with two screws (A) provided with the rack.



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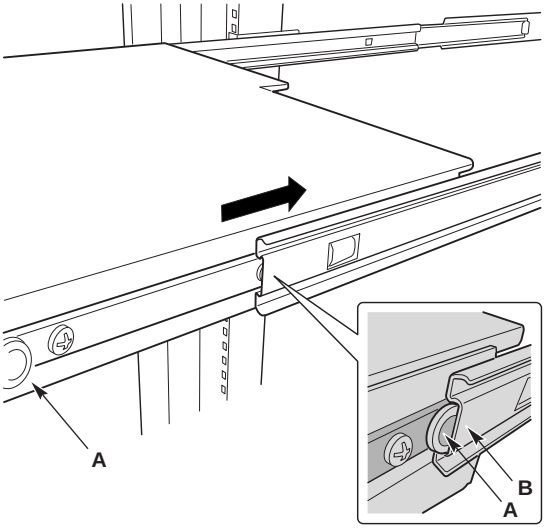
Put the Server Into the Rack

1. Hold the server so the front is facing you. Line up the server so the rollers on the chassis section (A) go into the channel (B) of the slider section of the rail assembly.
2. Gently slide the server into the rack, making sure that all the rollers go into the channel.



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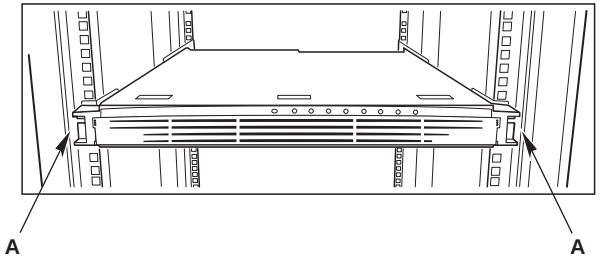
3. Use the bolts provided with the rack to fasten the server's front flanges (A) to the rack.



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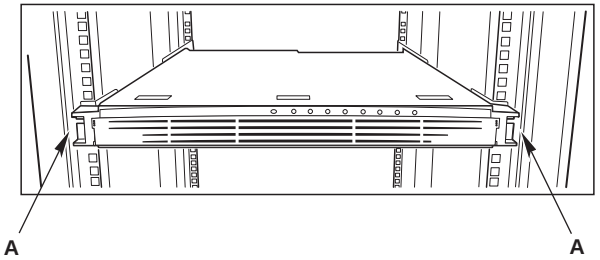
Removing the Server From the Rack

If you need to remove the server from the rack:

1. Unbolt the server's front flanges (A) from the rack.



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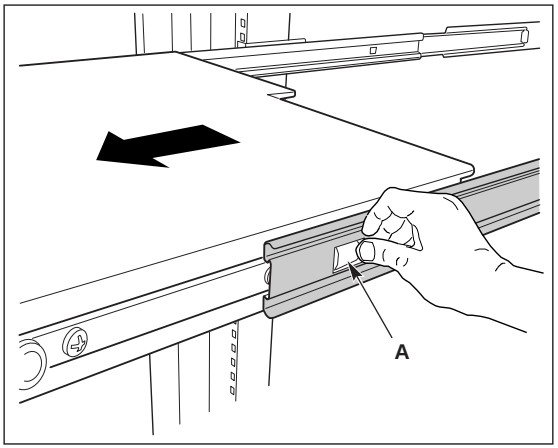
2. Slide the server out of the rack as far as you can. When the rail assembly locks, press the lock arm (A) on both sides to release the server.



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3. Remove the server from the rack.

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