Quantum

Contents

Quantum NDX NAS 1U Rack Installation Guide

This installation guide provides basic installation and configuration instructions for the NDX NAS 1U Rack.

This instruction uses the following conventions:

Note: Notes emphasize important information related to the main topic.

Caution: Cautions indicate potential hazards to equipment and are included to prevent damage to equipment.

WARNING: Warnings indicate potential hazards to personal safety and are included to prevent injury.

Preparing for Setup

The rail kit (CSE-PT52L) ships in a box that should include the following:

- Two sets of rail assemblies
- Six rail mounting brackets
- Mounting screws—needed to install the system into most standard racks

Note: To install the rails, you will need a Phillips screwdriver.

Due to the variability in rack types, you may need to use the mounting hardware that came with your rack or you may need to contact your rack vendor to procure additional mounting hardware.

Read this section in its entirety before you begin the installation procedure outlined in the sections that follow.

Precautions

Review the following precautions prior to setup.

Caution: Slide/rail mounted equipment is not to be used as a shelf or work space.

Rack Precautions

- Ensure that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on them.
- In a single rack installation, stabilizers should be attached to the rack.
- In multiple rack installations, the racks should be coupled together.
- Always make sure the rack is stable before extending a component from the rack.
- Extend only one component at a time - extending two or more simultaneously may cause the rack to become unstable.

General Precautions

- Determine the placement of each component in the rack before you install the rails.
- Install the heaviest server components on the bottom of the rack first, and then work up.
- Use a regulating uninterruptible power supply (UPS) to protect the servers and switches from power surges, voltage spikes and to keep your system operating in case of a power failure.

- Always keep the rack's front door and all panels and components closed when not servicing to maintain proper cooling.
- Disconnect all power cords before servicing.

Rail Kit Contents

The following pictures depict the contents of the rail kit, including rails, screws, brackets, and nuts.
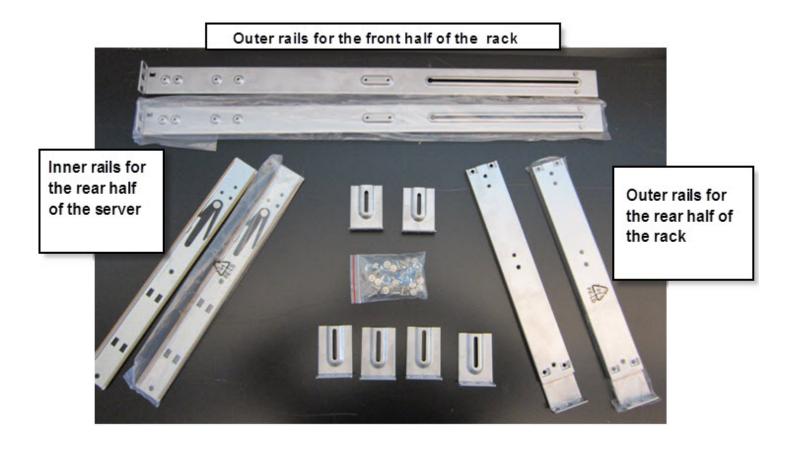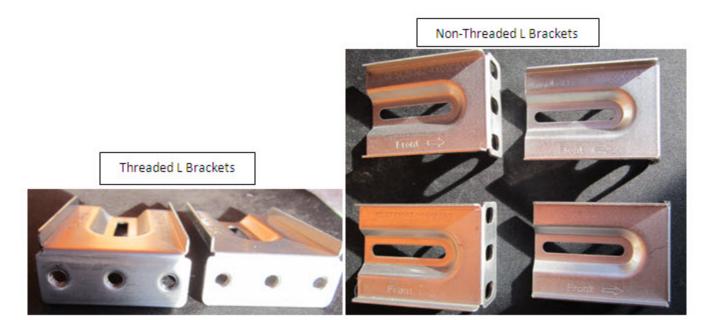
Figure 1 Rails

Outer rails for the front half of the rack

Inner rails for the rear half of the server

Outer rails for the rear half of the rack

Figure 2 Screws

Figure 3 Brackets

Figure 4 Nuts

Rack Installation

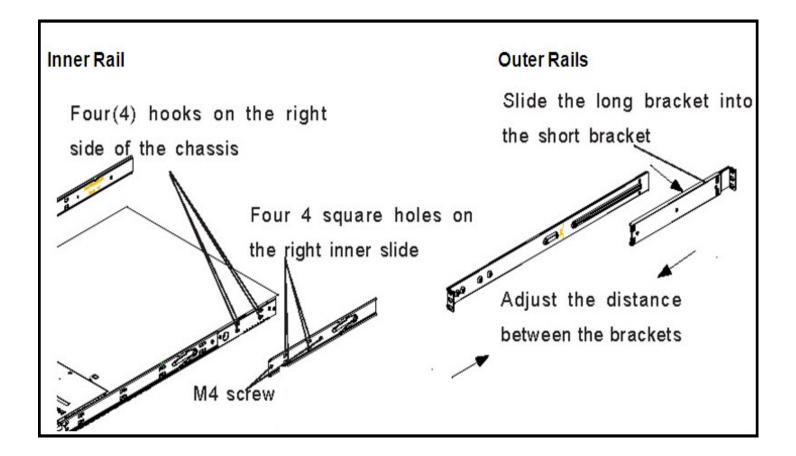## Rack Mounting Instructions

This section provides information on installing the NDX NAS 1U server into a rack with the CSE-PT52L rail kit. There are a variety of rack units on the market, which may mean the assembly procedure will differ slightly. You should also refer to the installation instructions that came with the rack unit you are using.

Note: This rail will fit a rack between 26" and 33.5" deep.

Identifying the Sections of the Rack Rails

The CSE-PT52L rail kit package includes two rack rail assemblies in the rack mounting kit. Each assembly consists of two sections: a fixed inner rail that secures directly to the side of the NDX 1U NAS server, and a fixed outer rail that secures directly to the rack itself.
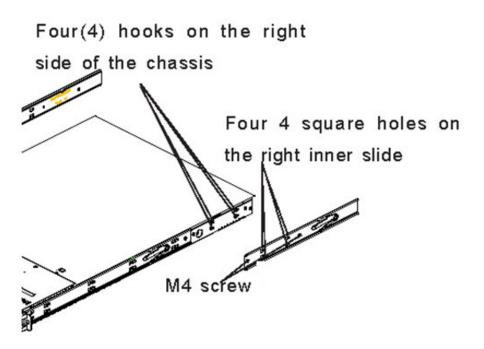
Figure 5 Rack Rail Sections

Inner Rail

Four(4) hooks on the right side of the chassis

Four 4 square holes on the right inner slide

M4 screw

Outer Rails

Slide the long bracket into the short bracket

Adjust the distance between the brackets

Installing the Inner Rails on the NDX 1U NAS Server

1 Place one of the inner rails on one side of the NDX 1U NAS server aligning the hooks on the side of the NDX 1U NAS server with the mounting holes in the rail. Make sure the inner rail faces outward, as illustrated.

> **Note:** The front inner rail is pre-installed on the NDX 1U NAS server.

2 Slide the inner rail forward so that the rail fits securely into the 4 hooks on the side of the NDX NAS 1U Rack server.

3 Secure the inner rail to the NDX NAS 1U Rack server with one screw as illustrated in Figure 6.

4 Repeat steps 1-2 for the remaining inner rail.

Figure 6 Inner Rail Installation

Installing the Outer Rails on the Rack

1 Attach the shorter outer rail to the outside of the longer outer rail. You must seat the pin on the rear outer rail with the slide opening in front outer rail. Also, both bracket ends must face the same direction.

2 Adjust both the shorter and longer brackets to the proper length so that the rail fits snugly into the rack.

3 Secure the long rail to the front side of the rack with two M5 screws, top and bottom holes and the short rail to the rear side of the rack with two M5 screws.

4 If the rack does not have threaded holes, install a clip nut or a cage nut in the back side of the rail and use the cage nut/clip nut screws to secure the unit into the rack (see Figure 7 below)

5 Repeat steps 1-4 for the remaining outer rail.
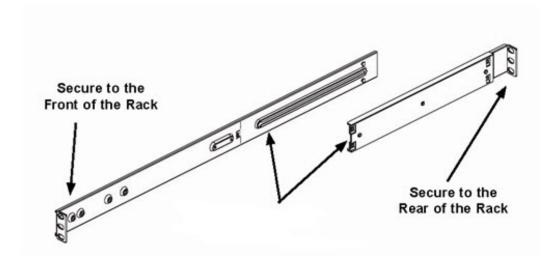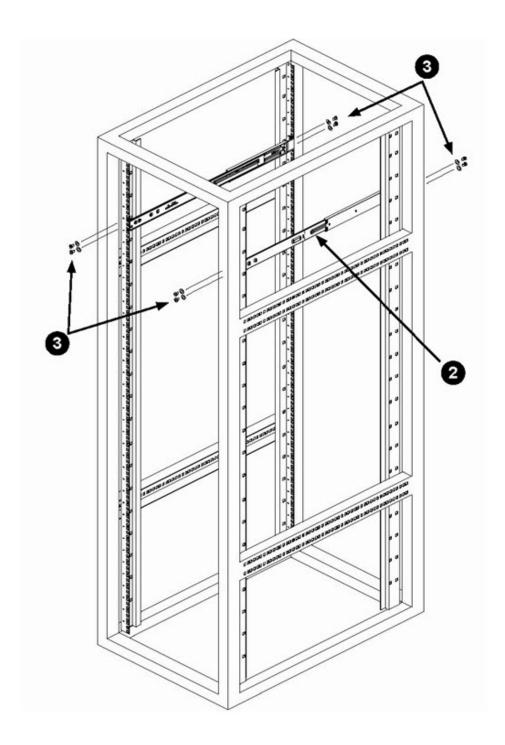
Figure 7 Outer Rail Installation

Table 1 Type of Rail Nuts

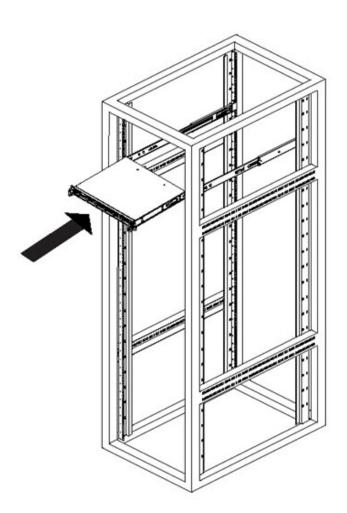| Type of Rail/Type of Nut	Description
Cage nut / Clip nut	Square rack holes are the most common type of rack holes. They can accept either cage nuts which mount from the back of the rail or clip nuts which clip on from the side of the rack rail.
Clip nut	Round, unthreaded holes require clip nuts to accept mounting hardware.
	Threaded holes require neither cage or clip nuts to accept mounting hardware.

Figure 8 Outer Rail Installation
Diagram

Installing the NDX 1U NAS Server into a Rack

1 Confirm that inner rails have been secured to the NDX 1U NAS server.

2 Confirm that the outer rails are installed on the rack.

3 Align the ends of the inner rails on the NDX 1U NAS SERVER with the front of the outer rails on the rack.

4 Slide the inner rails into the outer rails, keeping the pressure even on both sides (you may have to depress the locking tabs when inserting). When the NDX 1U NAS server has been pushed completely into the rack, you should hear the locking tabs click into the locked position.

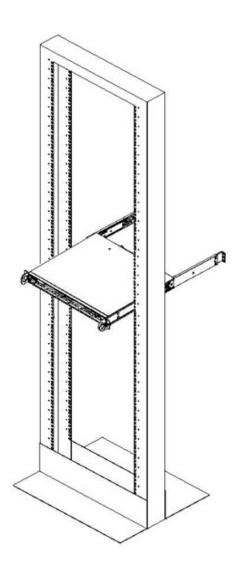Figure 9 Server into Rack Installation Diagram

Installing the NDX 1U NAS Server into a Telco Rack

To install the NDX 1U NAS SERVER into a Telco (post style) rack, use two L-shaped brackets on either side of the NDX 1U NAS server (four total).

1 Determine how far the NDX 1U NAS server will extend out the front of the rack. The NDX 1U NAS server should be positioned to balance the weight between front and back.

2 Attach the two front brackets to each side of the NDX 1U NAS server, then position the two rear brackets with just enough space to accommodate the width of the Telco rack.

3 Finish by sliding the NDX 1U NAS server into the rack and tightening the brackets to the rack.

Figure 10 Installing Server into Telco Rack

Removing Server from the Rack

In the event you need to remove the server from the rack, follow the steps below.

1 Separate the inner rail from the outer rail by depressing the black plastic flange inside the inner rail. This will release the outer rail.

2 Slide the inner rail forward and out of the outer rail.

Note: Your NDX 1U NAS server may differ from the illustrations in this manual.

6-67548-01 Rev B, November 2013

For assistance, contact the Quantum Customer Support Center:
USA: 800-284-5101 (toll free) or 949-725-2100
EMEA: 00800-4-782-6886 (toll free) or +49 6131 3241 1164
APAC: +800 7826 8887 (toll free) or +603 7953 3010
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