

The logo consists of a dark purple rounded square with the word "addendum" written in white lowercase letters in the center.

addendum

hp StorageWorks SAN switch universal rack mount kit installation

Product Version: V3.0.x/V4.0.x

This addendum only applies to the following documents:

HP StorageWorks SAN Switch 2/32 Installation Guide, Version 4.0.x
AA-RTQVB-TE (February 2003)

HP StorageWorks SAN Switch 2/16 Installation Guide, Version 3.0.x
AA-RR84B-TE (February 2003)

HP StorageWorks SAN Switch 2/8 Installation Guide, Version 3.0.x
AA-RSB6B-TE (February 2003)

This addendum consists two parts:

- **Pen-and-ink Changes**—provides instructions for locating specific text and either deleting text, replacing text with new text, or adding new text at a specific location.
- **Page Additions**—identifies where to add a page at a specific place in the document and recommends how to attach the replacement pages.

Note: If the changes within this addendum are not incorporated into the specified documents and then used, problems might arise from using obsolete information.

Pen-and-ink Changes

There are no pen-and-ink changes in this addendum.

Page Additions

The following pages describe the installation of the SAN Switch 2/32, SAN Switch 2/16, and SAN Switch 2/8 in an HP Series 9000 or comparable EIA rack, or in an HP System/e rack using the SAN Switch Universal Rack Mount Kit, part number 331148-B21.

For each document, insert the following sheets as shown here:

1. After page 30 in the *HP StorageWorks SAN Switch 2/32 Installation Guide*
2. After page 29 in the *HP StorageWorks SAN Switch 2/16 Installation Guide*
3. After page 32 in the *HP StorageWorks SAN Switch 2/8 Installation Guide*

Installing the Switch in a Rack Using the SAN Switch Universal Rack Mount Kit

This section provides instructions for installing the SAN Switch 2/32, SAN Switch 2/16, or SAN Switch 2/8 in an HP System/e rack, or in an HP 9000 Series or comparable EIA rack using the SAN Switch Universal Rack Mount Kit, part number 331148-B21.

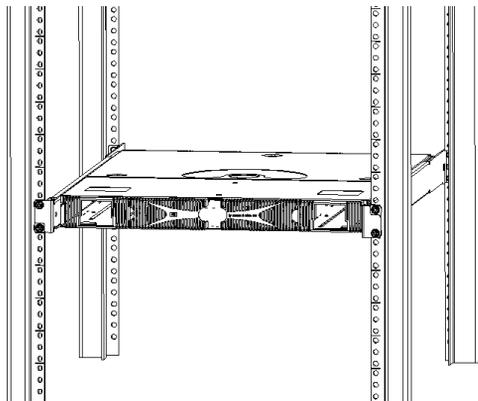
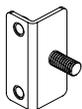


Figure 1: SAN Switch 2/16 rack-mounted switch

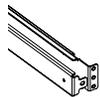
Note: The Universal Rack Mount Kit installation requires two technicians.

The following items are required to install the switch in a rack:

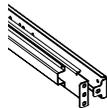
- SAN Switch 2/32, SAN Switch 2/16, or SAN Switch 2/8
- Power cables
- #2 Phillips screwdriver
- 7/16-inch wrench or socket
- The SAN Switch Universal Rack Mount Kit rails and rail mounting hardware listed below:



(2) Rear mounting brackets



A right inner rail and a right outer rail



A left inner rail and a left outer rail



(14) #8-32 x 3/16-inch Phillips pan-head screw with captive star lock washer



(10) #10-32 x 1/2-inch Phillips pan-head screw with captive star lock washer



(8) #10 alignment washer



(8) #10 adapter washer



(2) 1/4-20 hex nut with captive star lock washer



(2) 1/4-inch flat washer



Caution: For proper airflow, the SFP media side of the SAN Switch 2/32, SAN Switch 2/16, or SAN Switch 2/8 must face the rear of the rack. This mounting allows air to enter from the front of the rack and to exhaust at the rear of the rack, similar to other rack-mounted equipment. This prevents switch overheating, which may cause it to fail.

To install the switch in a rack:

1. Check contents of the shipping carton to verify all the required parts and hardware are available.
2. Choose a mounting location in the rack for the switch.
3. Attach the rear mounting brackets to the rear rack uprights by completing one of the following steps:
 - For an HP 9000 Series or comparable EIA rack, assemble each of the two brackets with (2) #10-32 x 1/2-inch Phillips pan-head screws with captive star lock washers and (2) #10 adapter washers as shown in [Figure 2](#).

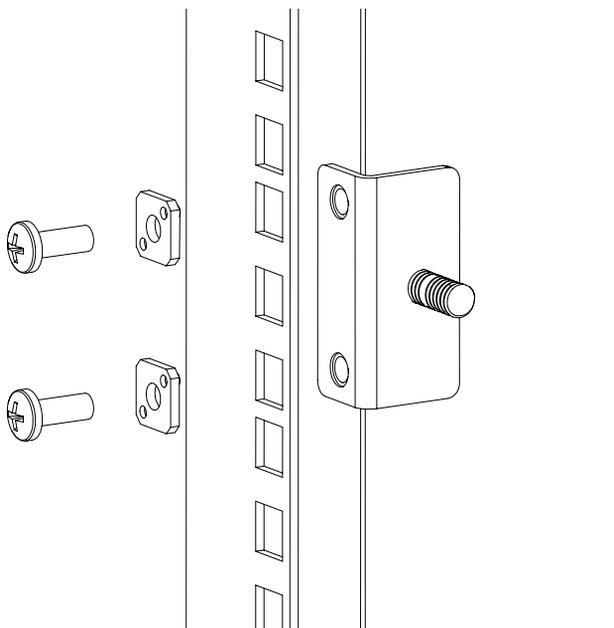


Figure 2: Installing the rear mounting brackets (HP 9000 Series or comparable EIA rack)

- For an HP System/e rack, install each of the two rear mounting brackets with (2) #10-32 x 1/2-inch Phillips pan-head screws and (2) #10 alignment washers as shown in [Figure 3](#).

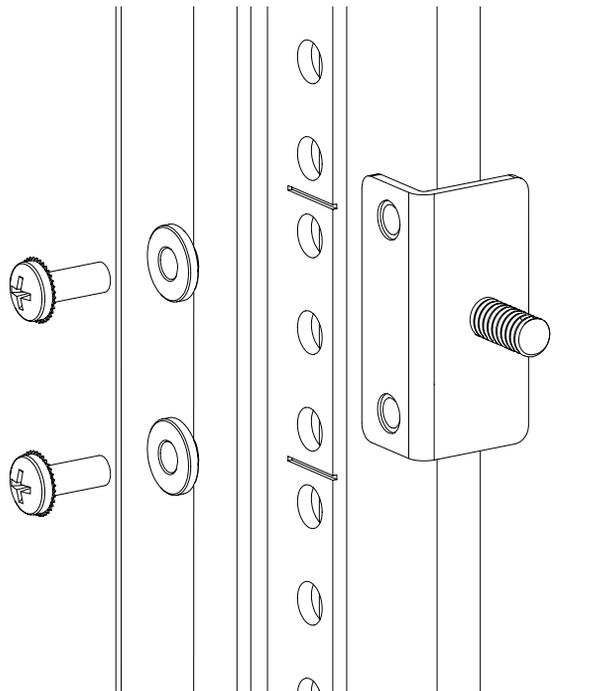


Figure 3: Installing the rear mounting brackets (HP System/e rack-left rear upright)

Note: This kit contains both left rails and right rails. The rails are marked with *Right* and *Left* to distinguish the rails from each other.

4. Assemble the outer rails by completing the following steps:
 - a. Attach the left outer rail and the right outer rails to the rear mounting brackets using (2) 1/4-20 hex nuts with captive star lock washers attached loosely as shown in [Figure 4](#). Don't tighten them. The nuts will be tightened later in [step 8](#).

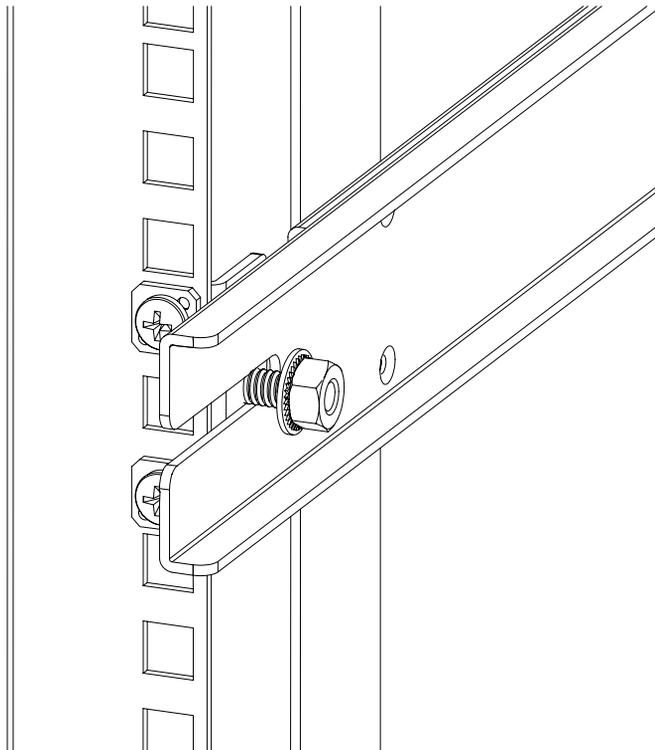


Figure 4: Installing the outer rails (HP 9000 Series or comparable EIA rack)

- b. Depending on the rack you are using, complete one of the following tasks:
 - For an HP 9000 Series or comparable EIA rack, install two #10-32 x 1/2-inch Phillips pan-head screws with captive star lock washers and two #10 adapter washers in the upper and lower hole locations of the right rail. Then install two #10-32 x 1/2-inch Phillips pan-head screws with captive star lock washers and two #10 adapter washers in the upper and lower hole locations of the left rail. See [Figure 5](#).

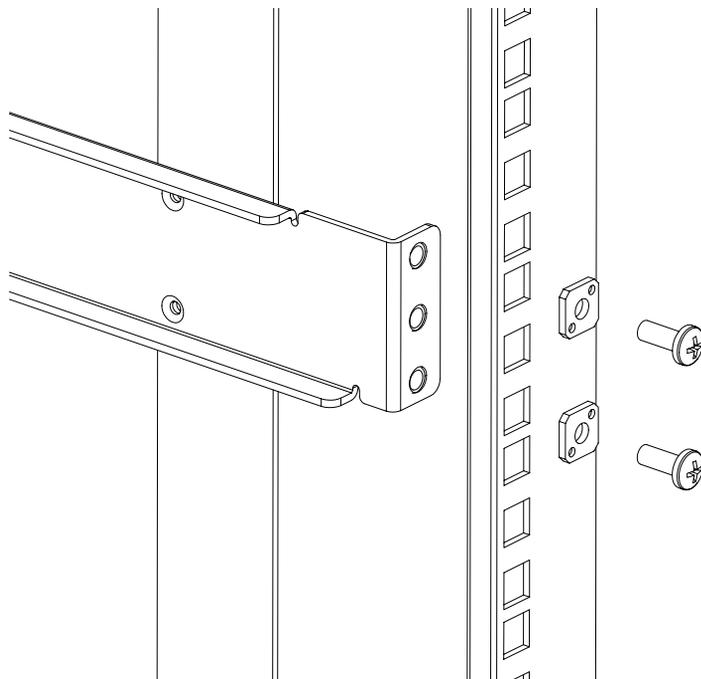


Figure 5: Assembling the outer rails (HP 9000 Series or comparable EIA rack)

- For an HP System/e rack, install two #10-32 x 1/2-inch Phillips pan-head screws with captive star lock washers and two #10 alignment washers in the upper and lower hole locations of the right rail. Then install two #10-32 x 1/2-inch Phillips pan-head screws with captive star lock washers and two #10 alignment washers in the upper and lower hole locations of the left rail. See [Figure 6](#).

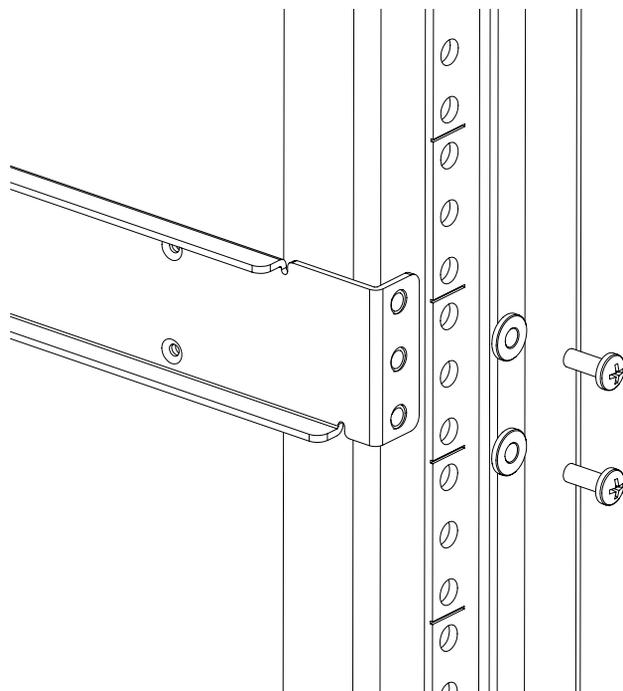


Figure 6: Assembling the outer rails (HP System/e rack)

5. Determine the number of #8-32 x 3/16-inch Phillips pan-head screws with captive star lock washers required to assemble the inner rails by referring to [Table 1](#).

Table 1: Number of screws required to assemble the inner rails

Switch	Number of #8-32 x 3/16-inch Screws
SAN Switch 2/32	12
SAN Switch 2/16	10
SAN Switch 2/8	14

6. For the SAN Switch 2/32 and SAN Switch 2/16, perform [step a](#). For the SAN Switch 2/8, perform [step b](#).



Caution: Do not use any other screws other than the fourteen that are provided. Use of any longer lengths can cause damage to internal components

Note: The inner rails work for all three SAN switches—SAN Switch 2/32, SAN Switch 2/16, and SAN Switch 2/8. The mounting holes in the inner rails are marked with 32, 16, and 8. Use the appropriately labeled mounting holes when installing the inner rails on a switch. For example, to install the inner rails on the SAN Switch 2/32, use the mounting holes labeled with 32.

When viewing a rack from the front, the left rails are used in the left side of the rack and the right rails are used in the right side of the rack. The rails must match up—right inner with right outer and left inner with left outer. Note that the SAN switch mounts in the rack with its front, the port side, facing the back of the rack. The rear of the switch, the AC side, faces the front of the rack.

- a. Assemble the two inner rails (one on each side) to the switch using the appropriate number (from [step 5](#)) of #8-32 x 3/16-inch Phillips pan-head screws as shown in [Figure 7](#).

Note: The rail kit provides fourteen #8-32 x 3/16-inch screws for assembling the inner rails. Each switch requires a different number of these screws. For example, [Figure 7](#) shows the an inner rail being attached to the SAN Switch 2/16 with five screws. Attaching both inner rails requires ten screws.

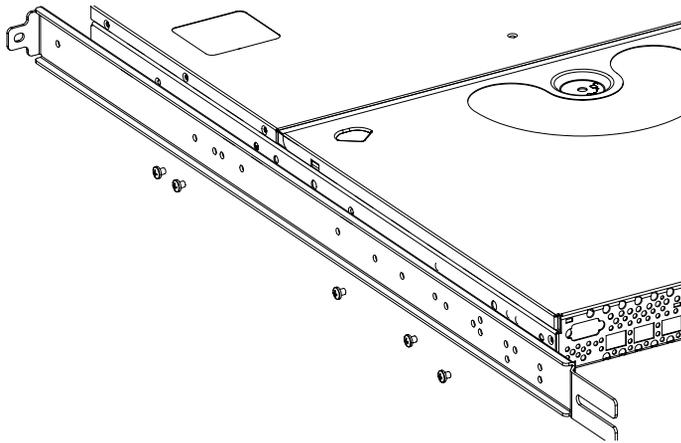


Figure 7: Assembling the inner rails

- b. For the SAN Switch 2/8, assemble the two inner rails (one on each side) to the switch and plenum using the appropriate number (from [step 5](#)) of #8-32 x 3/16-inch Phillips pan-head screws as shown in [Figure 8](#).

Note: The plenum is only a required part of this installation when the SAN Switch 2/8 is installed in the HP System/e rack. The plenum is not needed if the switch is installed in an HP 9000 Series or comparable EIA rack.

Verify that the plenum (part number A7346-00001) is preinstalled on the SAN Switch 2/8 before proceeding. The plenum is required for the SAN Switch 2/8 rack mount only, as it allows air to dissipate at the rear of the rack, preventing overheating.

If the plenum is not preinstalled on the SAN Switch 2/8, refer to the HP StorageWorks SAN Switch 2/8 Version 3.1.x Installation Guide for complete plenum installation instructions.

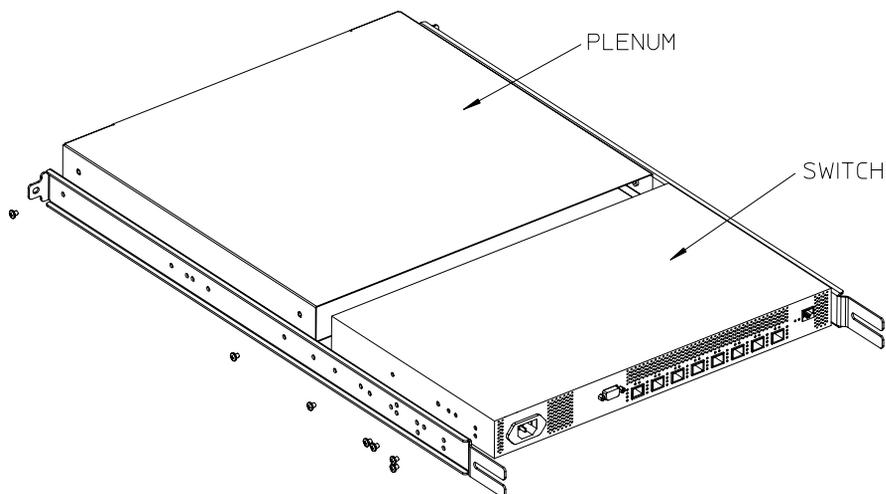


Figure 8: Assembling the inner rails on a SAN Switch 2/8 with plenum

7. Insert the switch with the attached inner rails into the outer rails.

Note: This step applies to both the HP System/e rack and the HP 9000 Series or comparable EIA rack.

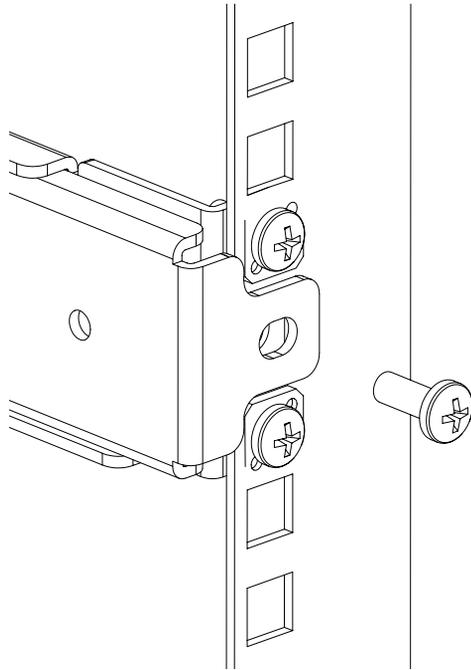


Figure 9: Installing the switch into a rack (HP 9000 Series or comparable EIA rack)

Insert the switch into the rack and install (2) #10-32 x 1/2-inch Phillips pan-head screws with captive star lock washers with one on each side. See [Figure 9](#) and [Figure 10](#).

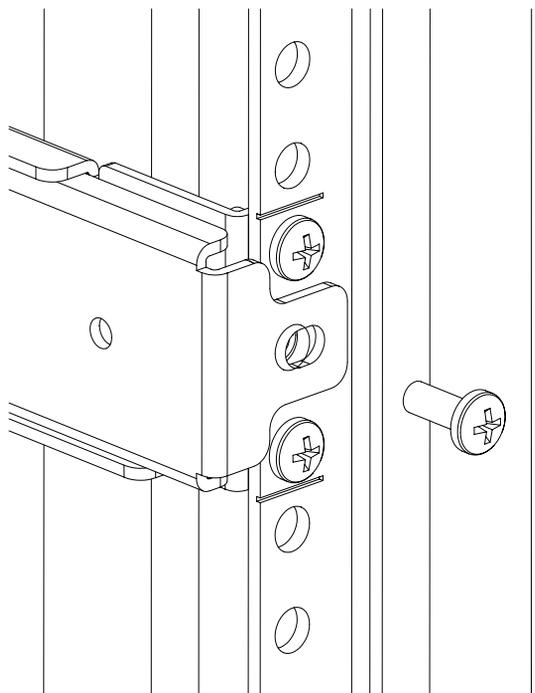


Figure 10: Installing the switch into a rack (HP System/e rack)

8. Tighten the nuts installed in [step a](#) of step 4 on page 5. See [Figure 4](#).

Note: To uninstall a switch, remove the middle #10-32 x 1/2-inch Phillips pan head screw with captive star lock washer from either side of the rack uprights.

9. Continue the installation by returning to one of the following guides as appropriate.
 - a. “Connecting AC Power” on page 45 in the *HP StorageWorks SAN Switch 2/32 Installation Guide, Version 4.0.x*.
 - b. “Connecting AC Power” on page 45 in the *HP StorageWorks SAN Switch 2/16 Installation Guide, Version 3.0.x*.
 - c. Connecting the power cord in step 8 on page 45 in the *HP StorageWorks SAN Switch 2/8 Installation Guide, Version 3.0.x*.