Application Note: Panel Extension Kit for Rear Cable Manager Applications in Cabinets & 4-post Racks

Application Note ID:
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Product Line:
Flat and angled 1RU and 2RU 110-style Patch Panels Flat and angled 1RU and 2RU QuickPort Patch panels Rear Cable Managers

Part Numbers Affected:
1RU and 2RU Panel Extension Kits Rear Cable Managers 1RU and 2RU Patch Panels

APPLICATION

Some Rear Cable Managers are designed to mount on the rear side of the vertical rack rails of a standard 19” equipment rack. The vertical rack rails in cabinets and 4-post racks are often just an L-shaped flange, providing no rear side for cable manager installation. Also, many of these rails have a vertical strengthening flange or rib which interferes with installation of rear cable managers.

The Panel Extension Kits are available in 1RU (part number E2X1F-BKT) and 2RU (part number E2X2F-BKT) sizes. Each kit consists of one pair of brackets. The brackets will route around rack rail obstructions and will provide proper setback of the cable manager behind the patch panel.

USE OF THE PANEL EXTENSION KITS

Installation of these Rear Cable Managers in cabinets or 4-post racks may be aided by use of the Extender Brackets:

49006-AMB Angled Rear Cable Management Bar

49005-DMB High-density Cable Management Bar

49258-TWB Tie Wrap Bar

(Note: Tie Wrap Bar (49258-TWB) is not shown in the illustrations below but use of extender brackets is similar where that cable manager will be deployed in cabinet or 4-post rack applications).

Pair of 1RU Brackets

Pair of 2RU Brackets

- Obtain one kit for each panel needing rear cable management. Match kit size to panel size (1RU or 2RU)
- Place cage nuts (user provided) into the square holes of each bracket

Cage nuts placed

- For square-hole rack rails, install (user-provided) cage nuts at desired panel mounting location. For rack rails with tapped screw holes, panel will be screwed directly into the rack.
- Use four long rack-mount screws (user-provided) to mount patch panel into cabinet or 4-post rack
- Use four hex nuts (user-provided) to mount extender brackets onto long screws.

Cage nuts placed in rack rail (1RU shown)

Long screws mount panel, hex nuts mount 1RU brackets

- Use rack-mount screws provided with rear cable manager to mount cable manager onto rear of brackets.

Cable manager mounted onto bracket

Angled 1RU panel shown with Angled Rear Cable Manager mounted on Extender Brackets in 4-post rack

Flat 1RU panel shown with High-Density Rear Cable Manager mounted on Extender Brackets in 4-post rack

Where a 2RU panel requires two Rear Cable Managers:

- For square-hole rack rails, install (user-provided) cage nuts at desired panel mounting location. For rack rails with tapped screw holes, panel will be screwed directly into the rack.
- Use four long rack-mount screws (user-provided) to mount patch panel into cabinet or 4-post rack.
- Use four hex nuts (user-provided) to mount extender brackets onto long screws.
- Use rack-mount screws provided with the rear cable managers to mount cable managers onto rear of brackets.

Long screws mount panel, hex nuts mount 2RU brackets

Two angled rear cable managers shown