

ACCTON TECHNOLOGY CORPORATION

Accton ORSA-1RU

Open Rack Switch Adapter

Rev.06



OPEN
Compute Project

Revision History

Revision	Date	Author	Description
.01	4/21/2014	Jeff Catlin	Initial Release
.02	5/7/2014	Jeff Catlin	Clean up, added pictures
.03	6/7/2014	Jeff Catlin	Updated design based upon feedback
.04	6/27/2014	Jeff Catlin	Lowered metal at rear of unit for PSU/Fan removal/insertion
.05	9/16/2014	Jeff Catlin	Minor updates based upon OCP IC feedback
.06	12/18/2014	Jeff Catlin	Added cable routing holes w/grommets to front

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<u>Description</u>	<u>Manufacturer</u>	<u>Part Number</u>
Power Connector	Methode	5313-07460-00107
Latching Handles	Pinngwood	MHL-23
Grommet	Kang Yang	SQB-5

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Scope

This document outlines the technical specifications for the Accton ORSA-1RU mechanical adapter to be used with standard Open Rack installations.

Overview

The Open Rack Switch Adapter 1 RU (ORSA-1RU) is a mechanical adapter that allows any standard 19 inch 1 rack unit (RU) network switch to be installed in a standard 21" Open Rack and consume 1 OpenU. The ORSA-1RU accepts a standard 19" 1RU switch as if the ORSA-1RU were a standard 19" rack with the switch mounting in the ORSA-1RU by standard rack mounting brackets (included with network switch) attached to the switch and in turn the ORSA-1RU.

The ORSA-1RU is mechanically Open Rack compliant and slides into the Open Rack on the "L" shaped brackets and secures to the Open Rack by latching mechanisms on the left and right side of the ORSA-1RU connecting to the rectangular holes on the sides of the Open Rack.

The ORSA-1RU support a standard Methode OCP power connector on the back end of the unit and connect to the center 12V power bus bar in the Open Rack to supply power to the device installed in the ORSA-1RU.

The ORSA-1RU can optionally be used as a pure mechanical only adapter allowing networking equipment to be installed anywhere in the Networking or Innovation zones and continue to use AC power if desired.

Benefits

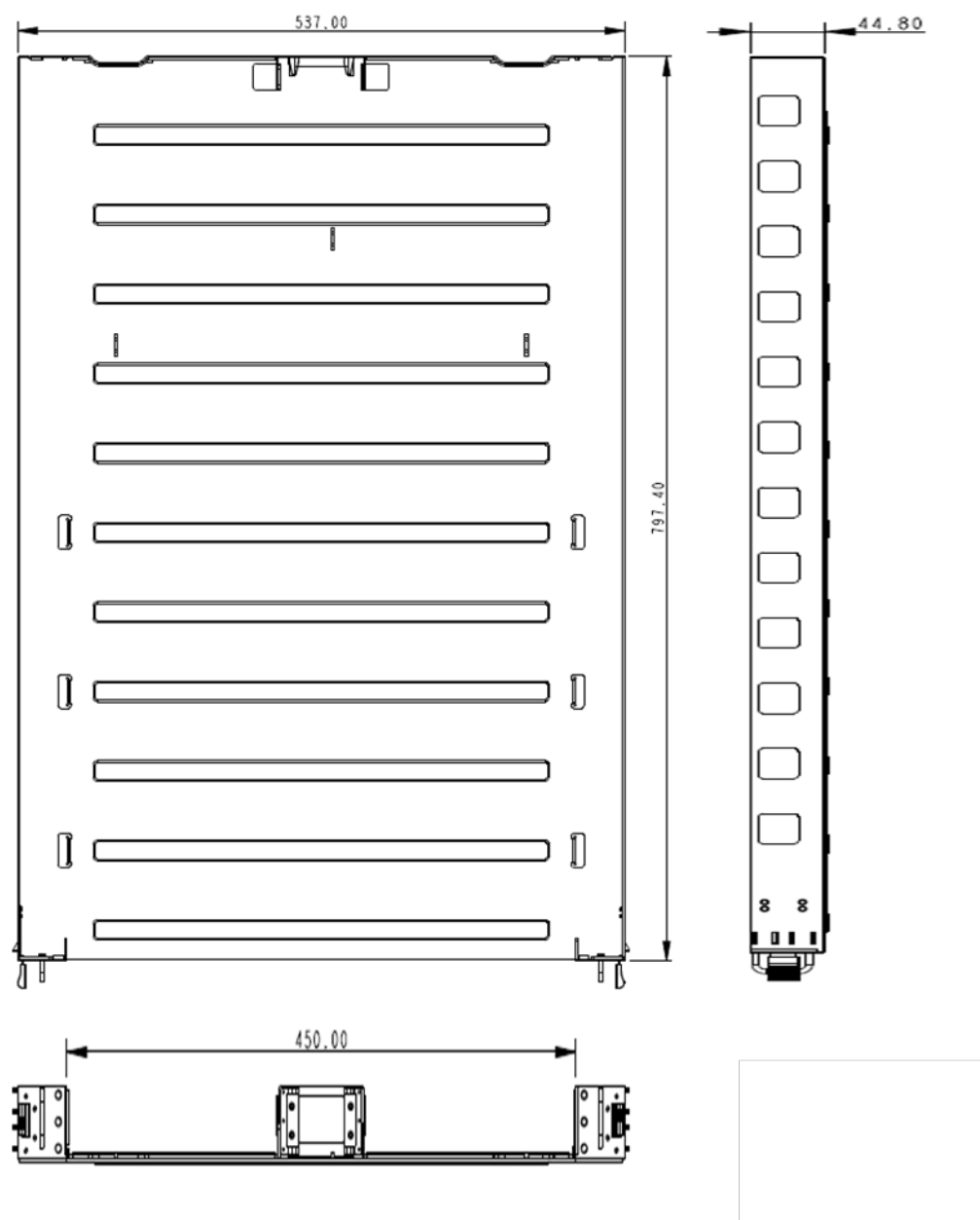
- Allows networking equipment to be installed anywhere in the Open Rack.
- Supports a latching mechanism to the sides of the Open Rack.
- Provides connectivity to the 12V power system in the Open Rack for networking equipment.

Physical Overview

Dimensions

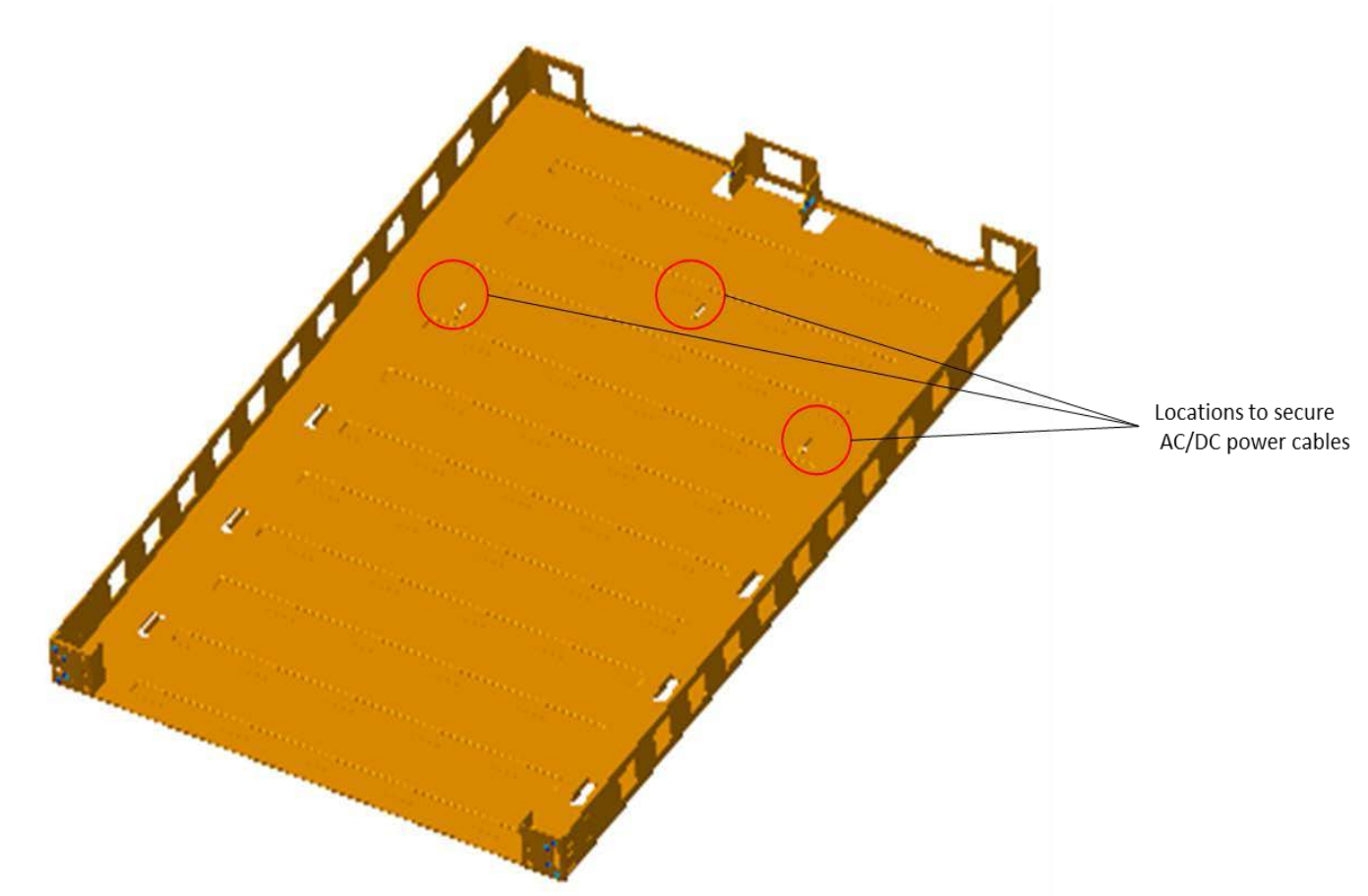
	Inches	Millimeters
Length	31.39	797.40
Width	21.14	537.00
Height	1.77	44.8

Mechanical Overview

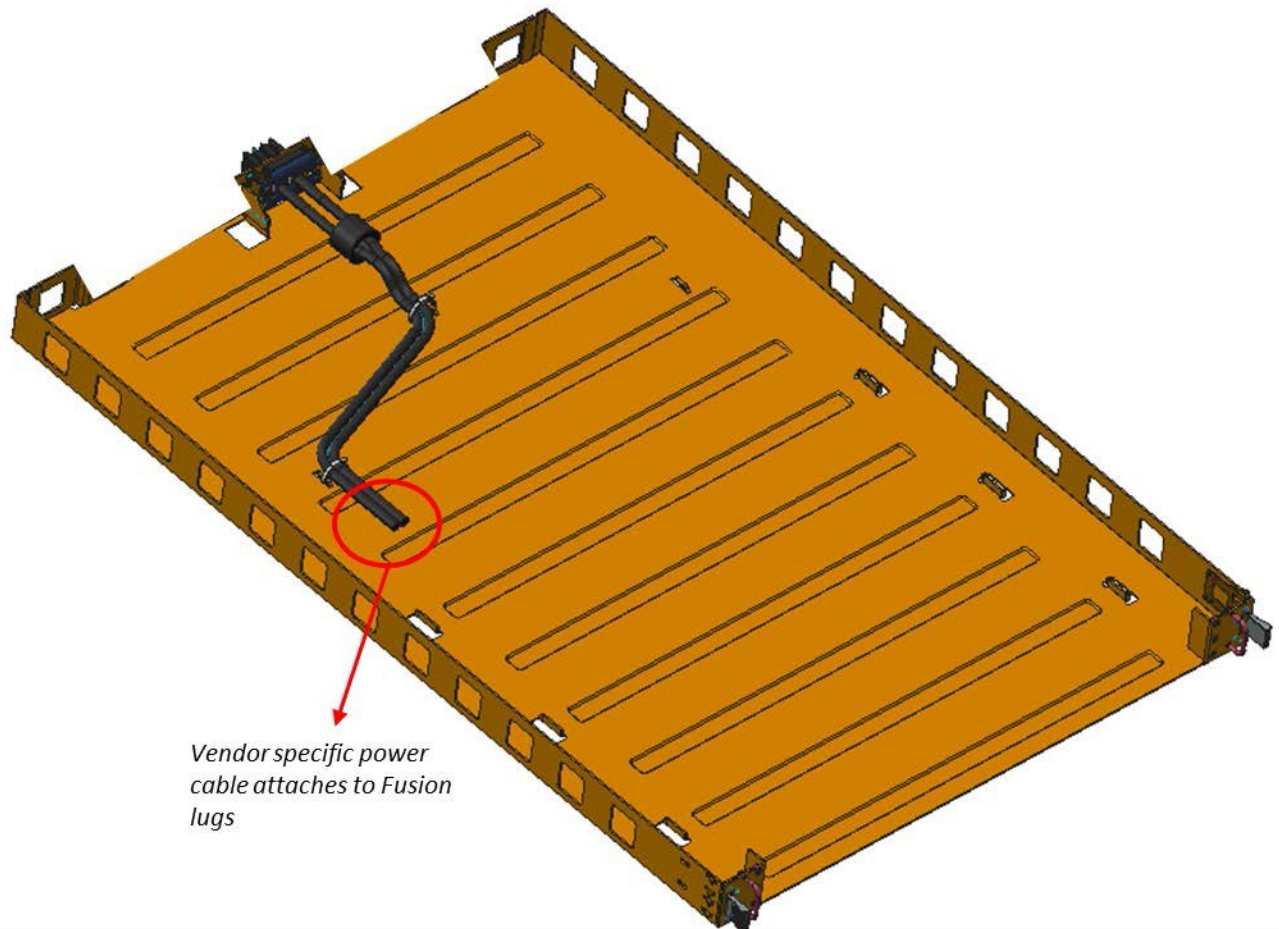


Basic Open Rack Switch Adapter

The ORSA-1RU can be used as a mechanical only adapter allowing standard 19" rack mountable equipment to be installed in the Open Rack and continue using traditional AC power if desired. This can be accomplished by removing the Methode power connector from the rear of the ORSA-1RU as shown below.



Open Rack Switch Adapter with 12V capability

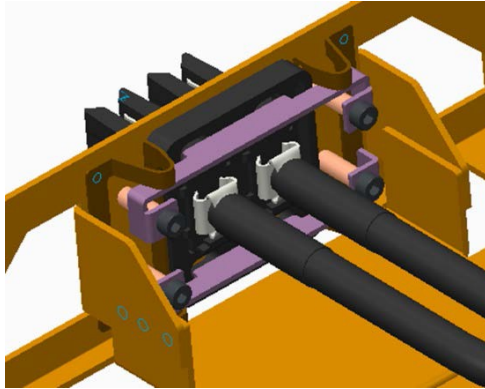


Connect fusion lugs to vendor specific power cable supplied by switch vendor

The ORSA-1RU is used to mount a standard 19" rack mountable network switch in an Open Rack and utilize the Open Rack 12V DC power system. A standard Methode OCP connector is included in the rear of the ORSA-1RU to connect to the center 12V DC power bus in the Open Rack and includes a power pigtail and fusion lug connectors.

The network switch requires a 12V DC power adapter that meets the Open Rack power requirements (either commercially available or supplied by the network switch vendor). A pigtail power cable specific to the 12 power module supported by the network switch is used to connect the network switch to the 12V DC fusion lugs provided with the ORSA-1RU/Methode connector.

Methode connector assembly mounted in ORSA-1RU

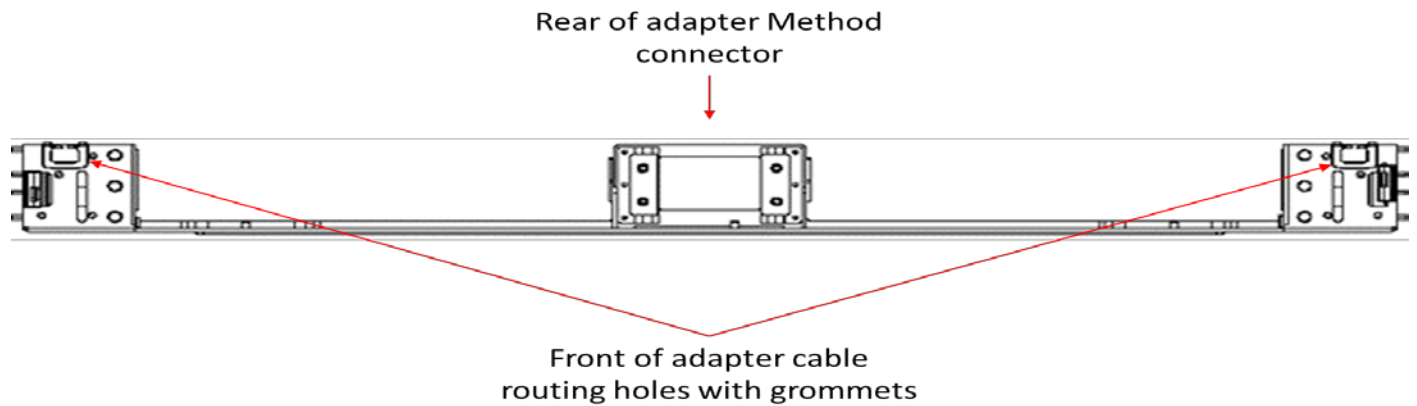


The Methode connector assembly is mounted in the ORSA-1RU in such a manner that it provides horizontal as well as vertical float.

Front View



The ORSA-1RU supports “D Ring” handles to aid in the insertion and removal of the unit into the Open Rack.



The ORSA-1RU supports two cutouts with grommets that can be used to route cables into the rack adapter if needed for connectivity to the side/rear of the unit installed in the ORSA-1RU.

Side View

Latching mechanism to Open Rack



Top View



Additional Information

Specifications:

Weight – 13.7 Lbs. / 6.2Kg

Maximum dimensions of switch accepted:

- o Width – Any 19" 1RU rack mountable switch (with 19" rack mounting brackets supplied with switch)
- o Height - Any 19" 1RU rack mountable switch
- o Length – 25" Maximum

Maximum weight switch accepted – 30Lbs

Safety

Method Connector: UL 1977, CSA Standard C22.2 No. 182.3-M1987 (UL File Number E303434)

ROHOS

Method Connector: IEC Directive 2002/95/EC