

ACCTON TECHNOLOGY CORPORATION

Accton ORSA-1RU

Open Rack Switch Adapter

Rev.04



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

Revision History	1
Licenses	3
Scope.....	4
Overview	4
Benefits	4
Physical Overview	5
Dimensions.....	5
Basic Open Rack Switch Adapter	5
Open Rack Switch Adapter with 12V capability.....	6
Methode connector assembly mounted in ORSA-1RU.....	7
Front View.....	7
Side View.....	8
Top View	8
Additional Information.....	9
Safety	9
ROHOS.....	9

Licenses

All semiconductor devices that may be referred to in this specification, or required to manufacture products described in this specification, will be considered referenced only, and no intellectual property rights embodied in or covering such semiconductor devices shall be licensed as a result of this specification or such references. Notwithstanding anything to the contrary in the CLA, the licenses set forth therein do not apply to the intellectually property rights included in or related to the semiconductor devices identifies in the specification. These references include without limitation the reference to devices listed below. For clarity, no patent claim that reads on such semiconductor devices will be considered a “Granted Claim” under the applicable Contributor License Agreement for this specification

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

As of May 8, 2014, the following persons or entities have made this Specification available under the Open Web Foundation Final Specification Agreement (OWFa 1.0), which is available at <http://www.openwebfoundation.org/legal/the-owf-1-0-agreements/owfa-1-0>:

Accton Technology Corporation.

You can review the signed copies of the Open Web Foundation Agreement Version 1.0 for this Specification at <http://opencompute.org/licensing/>, which may also include additional parties to those listed above.

Your use of this Specification may be subject to other third party rights. THIS SPECIFICATION IS PROVIDED "AS IS." No support of any kind will be provided by the contributors. The contributors expressly disclaim any warranties (express, implied, or otherwise), including implied warranties of merchantability, non-infringement, fitness for a particular purpose, completeness or title, related to the Specification. The entire risk as to implementing or otherwise using the Specification is assumed by the Specification implementer and user. IN NO EVENT WILL ANY PARTY BE LIABLE TO ANY OTHER PARTY FOR LOST PROFITS OR ANY FORM OF INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER FROM ANY CAUSES OF ACTION OF ANY KIND WITH RESPECT TO THIS SPECIFICATION OR ITS GOVERNING AGREEMENT, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, AND WHETHER OR NOT THE OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

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 attached to the switch and 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 can 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.

The ORSA-1RU can optionally 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.

Benefits

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

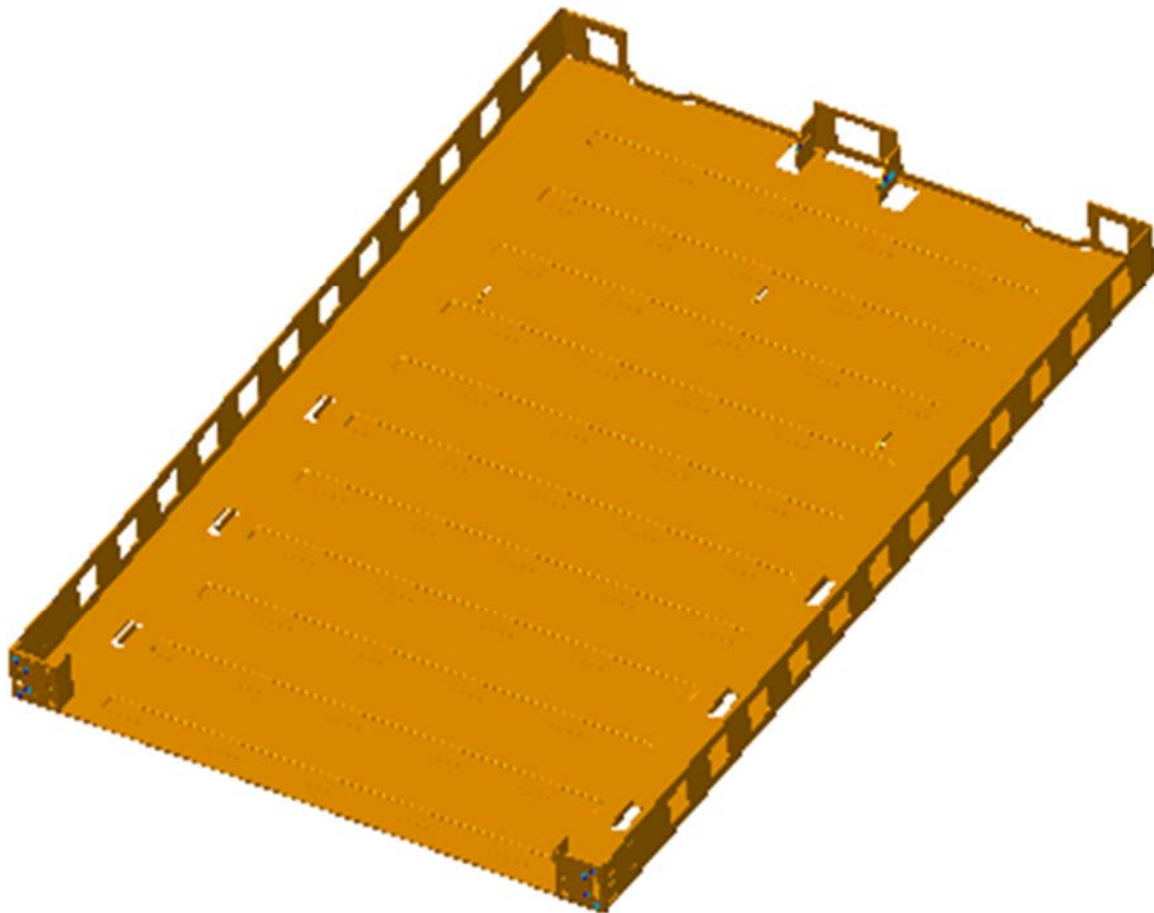
Physical Overview

Dimensions

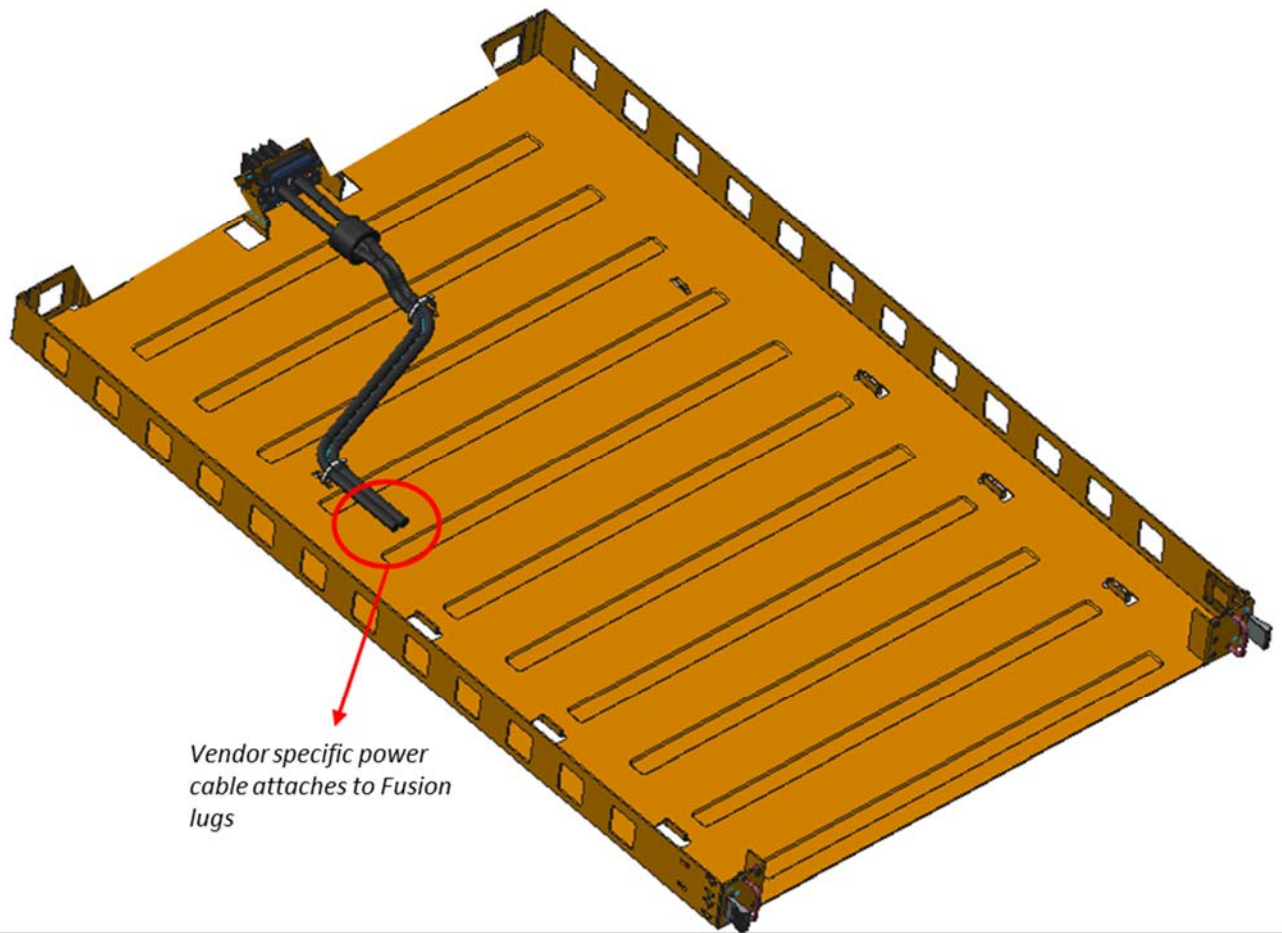
	Inches	Millimeters
Length	31.39	797.40
Width	21.14	537.00
Height	1.77	45.00

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.

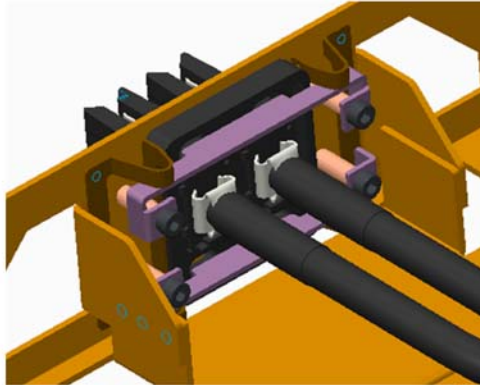


Open Rack Switch Adapter with 12V capability



The ORSA-1RU can be used to mount a standard 19" rack mountable network switch in an Open Rack and utilize the Open Rack 12V DC power system. In this example a standard Methode OCP connector is installed in the rear of the ORSA-1RU to connect to the center 12V DC power bus in the Open Rack. The network switch requires a 12V DC power adapter that meets the Open Rack power requirements. A pigtail power cable to connect the network switch to the 12V DC fusion lugs is provided by the switch vendor.

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



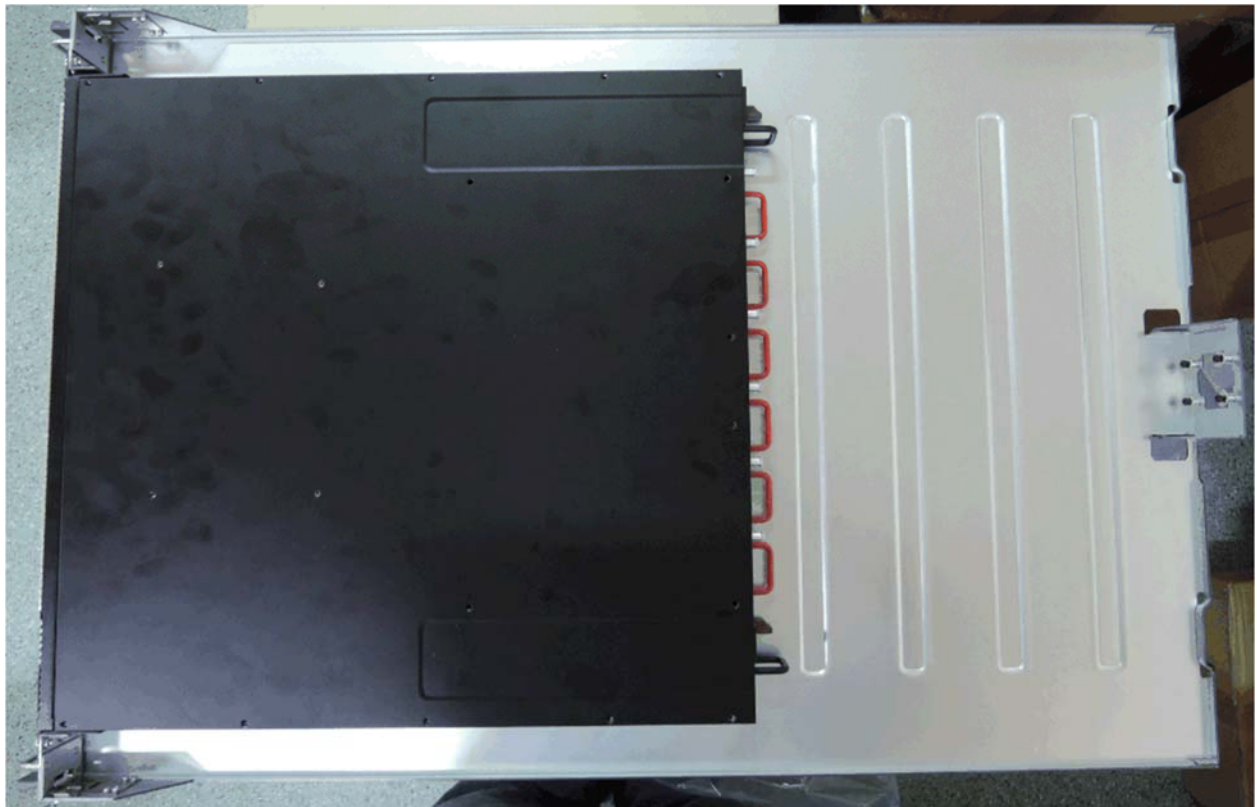
The ORSA-1RU supports “D Ring” handles to aid in the insertion and removal of the unit into the Open Rack.

Side View

Latching mechanism to Open Rack



Top View



Additional Information

Safety

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

ROHOS

Methode Connector: IEC Directive 2002/95/EC