

Vertiv™ Integrated Rack Solution

Reference Design #32

Enhanced Commercial and Office 42U Rack 1500VA Capacity

Solution Requirements

Physical Protection

- Safeguard network gear from environmental threats and unauthorized access.
- Prevent dust, debris, and moisture from damaging equipment.

Power Protection

- Prevent business interruption caused by power loss or power fluctuations with battery backup technology.
- Achieve maximum uptime with redundant gear protecting critical application during an unexpected equipment failure.

On-Site Management

- Simplify deployment and support future growth with infrastructure designed for total compatibility and scalability.
- Recover business critical floor space with IT infrastructure designed with tight spaces in mind.
- Streamline deployment and get critical applications up and running faster with on-site services and support.

Remote Management

- Maintain peace of mind one or more remote sites are up and running with real-time notifications.
- Save time by remotely accessing and rebooting unresponsive network equipment without an on-site visit.

Form Factor: Rack

Objective: Support network connectivity in commercial and office environments.

Recommended Environment

Climate-controlled unsecure environment with air conditioning in place for human comfort where temperature, humidity, and air quality control challenges could put IT equipment at risk of damage from uncontrolled heat, dust, or moisture.

- Converted Closet
- Retail Stock Room
- General Access Area

Integrated Solution Summary

Capacity	1500VA/1500W
Rack(s)	42U x 600mm x 1100mm (HxWxD)
Power Protection	Line Interactive UPS
Redundancy	N
Power Distribution	UPS output receptacles - 6 x IEC320 C13
Cooling	Optional Upgrade
Containment	Blanking Panels
Monitoring	Included
Services	Optional Upgrade
Warranty	3 years
Software	Optional Upgrade

Integrated Solution Includes

Qty	Product Summary	SKU	Description
1	Rack	VR3100	VR3100ÿ- 42U x 600mm x 1100mm (HxWxD) Vertiv™ VR Rack
1	Cable and Airflow Management	VRA1000, VRA1008, VRA2000	VR Rack Accessories utilized to seamlessly integrate communications and power cables in to the cabinet while maintaining proper airflow separation of equipment intake and exhaust.
1	UPS	EDGE-1500IRM1U	Vertiv™ EDGE UPS 1500VA/1350W. Manageable and efficient line interactive UPS, with with 0.9 power factor, controllable outlets and extended runtime options. Compact 1U rack mount design for Edge applications with up to 5 minutes runtime when loaded to 100%.
1	UPS COMM Card	IS-UNITY-SNMP	The interface card delivers SNMP, Telnet and web-management capability for enhanced communications and control of Liebert® UPS. The card manages a wide range of operating parameters, alarms and notifications, transmitting data over the network. Visit Vertiv.com for a free Vertiv™ Power Assist software download to gracefully shutdown an IT device when the UPS battery backup experiences a threatening condition.
1	Rack PDU	VP8858	rPDU, Monitored Unit Level EC, 16A, 230V, 3.6kW, Vertical, (18) IEC C13, (2) IEC C19, C20, Black Powder Coat

*Additional accessories and components are required and included in the integrated solution. Contact a Vertiv Partner for the complete bill of materials, to receive pricing, and to purchase.

Recommended Upgrades

Qty	Product Summary	Model #:	Description
1	IT Management	AV3216, ACS8016-SAC-404	The Vertiv™ Avocent® AutoView™ 3000 (AV3000) KVM over IP Switches provide local and remote management and control of up to 16 servers from a single console. The Vertiv™ Avocent® ACS8000 Serial Console System delivers secure in-band and out-of-band visibility and control to downstream equipment in enterprise data centers, as well as cloud and colocation facilities.
1	IT Management	ACS8016-EU-DAC-400	The Vertiv™ Avocent® ACS8000 Serial Console System delivers secure in-band and out-of-band visibility and control to downstream equipment in enterprise data centers, as well as cloud and colocation facilities. This serial console system serves as a secure management gateway and single point of entry keeping you connected to critical IT equipment even in the event of partial or total data center outages. Includes the upgraded Cellular capability.
1	Extended Warranty	RUPS-WE1-004	1-year Extended Warranty - This extends standard warranty by one year. Covers electronic parts and batteries.
1	Warranty and Service	RUPS-PE5-004	Power Emergency Package provides 5 years of coverage for electronic parts and batteries, advanced replacement
1	Software	DSV4.5-BASE, DSV4.5-100DEV, 1YRSLV-100DEV	DSView delivers secured web-browser enabled sessions of on-network infrastructure controls. As an IT integrated solution, DSView delivers secured web-browser enabled sessions to Virtual Machines.

Explore all **Commercial and Office** form factors and power configurations available, **Endpoint, Rack, and Row** by visiting the **Solution Builder** on [Vertiv.com](https://www.vertiv.com) or by contacting a **Vertiv Sales Representative**.