Vertiv™ Reference Design

Knowledge to Build Optimized Infrastructure Solutions

VERTIV.

Vertiv™ Integrated Rack Solution

Reference Design #34

Essential Conditioned and Controlled 42U Rack 3000VA 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.

Form Factor: Rack

Objective: Support critical IT applications in environments designed specifically for IT equipment.

Recommended Environment

Climate-controlled physically secure environment with power, air conditioning and airflow management in place providing temperature and humidity optimization specifically designed for IT equipment.

- Converted Closet
- Server Closet
- Network Closet

Integrated Solution Summary

Capacity	3000VA/2700W
Rack(s)	42U x 600mm x 1100mm (HxWxD)
Power Protection	Line Interactive UPS
Redundancy	N
Power Distribution	rPDU, Basic Standard, 16A, 230V, 3.6kW, Vertical, (20) IEC C13, (4) IEC C19, C20, Black Powder Coat.
Cooling	Optional Upgrade
Containment	Optional Upgrade
Monitoring	Optional Upgrade
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	UPS	EDGE-3000IRT2UXL	Vertiv™ EDGE UPS 3000VA/2700W. Manageable and efficient line interactive UPS, with with controllable outlets and extended runtime options. Compact 2U rack mount design for Edge applications and offering up to 6 minutes of runtime when loaded to 100%.
1	Rack PDU	VP7552	rPDU, Basic Standard, 16A, 230V, 3.6kW, Vertical, (20) IEC C13, (4) 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	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	IT Management	AV3108-001	Vertiv™ Avocent AV3000 Rackmount KVM Over IP Switch	CAC	8 Port KVM switches	Local and Remote Access (AV3108-001)
1	Warranty and Service	RUPS-WE1-005	1-year Extended Warranty - This extends standard warranty by one year. Covers electronic parts and batteries.
1	IT Management	ACS8008SAC-404	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.

Explore all Commercial and Office form factors and power configurations available, Endpoint, Rack, and Row by visiting the Solution Builder on Vertiv.com or by contacting a Vertiv Sales Representative.