

Vertiv™ Integrated Rack Solution

Reference Design #8

Enhanced Conditioned and Controlled 42U Rack 5kVA 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 critical IT applications in high density environments designed specifically for extreme computing requirements.

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.

- Network Closet
- Enterprise Data Center
- Managed Hosting Facility
- Server Closet
- Colocation Data Center
- Cloud Data Center



Integrated Solution Summary

Capacity	4250 VA / 3825 W
Rack(s)	42U x 600mm x 1100mm (HxWxD)
Power Protection	Line Interactive UPS
Redundancy	N
Power Distribution	Unit Level Monitored 30A, 208V OU vertical. 36 IEC C13 and 6 IEC C19 receptacles and a NEMA L6-30P input plug
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	VR3100 - 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	PSI5-5000RT208	Vertiv™ Liebert® PSI5 UPS model PSI5-5000RT208
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	VP8841	Unit Level Monitored Rack PDU VP8841 is a 30A, 208V 0U vertical with input power monitoring. It has 36 IEC C13 and 6 IEC C19 receptacles and a NEMA L6-30P providing 4.9 kW of power capacity. The unit is equipped with an environmental sensor port and dual ethernet ports to simplify management of multiple rPDUs with fault-tolerant daisy chaining or IP aggregation capabilities.

*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	Rack Based Air Cooling	VRC100-Kit-NA	Vertiv™ VRC Rack Cooling is designed to satisfy cooling requirements for small server room, network closet, and edge applications up to 3500 watts per cabinet, the Vertiv™ VRC IT rack cooling unit packs powerful, scalable and energy-efficient cooling into a compact unit. It fits into most standard 19-inch network racks, freeing up valuable floor space. It is available in Self-contained or Split version to fit different building architectures.
1	IT Management	MPU2016DAC-001, ACS8016SAC-400	The Avocent MergePoint Unity MPU2032DAC-001 is a 32-port, 2 digital KVM path, with dual AC power supply. The MergePoint Unity switch includes both KVM over IP and Serial Console Management technology in a single appliance. This combination provides IT administrators a complete and secure, remote management solution to access and control servers, networking equipment and other devices found in data centers and branch offices. control of up to 16 servers from a single console. The Vertiv™ Avocent®
1	Warranty and Service	1WEPSI5-5000	1-year Extended Warranty - This extends standard warranty by one year. Covers electronic parts and batteries.
1	Warranty and Service	PEPPSI-5K5Y	Power Assurance Premier Package provides 5 years of coverage for electronic parts and batteries, advanced replacement, plus one preventative maintenance after year 3. Also included: Remote diagnostic and preventive monitoring with Vertiv™ LIFE™ Services.

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**.