

Vertiv™ Integrated Rack Solution

Reference Design #14

Enhanced Commercial and Office 42U Rack 2200VA Capacity

Solution Requirements

Physical Protection:

- Safeguard network gear from environmental threats and unauthorized access.

Power Protection:

- Prevent business interruption caused by power loss or power fluctuations with battery backup technology.

On-Site Management:

- Simplify deployment and support future growth with infrastructure designed for total compatibility and scalability.

Remote Management

- Maintain peace of mind one or more remote sites are up and running with real-time notifications.

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	2200 VA / 1920 WS
Rack(s)	42U x 600mm x 1100mm (HxWxD)
Power Protection	Line Interactive UPS
Redundancy	N
Power Distribution	Monitored Unit Level EC, 20A, 120V, Vertical, (24) NEMA 5-20R, 10ft power cord with L5-20P
Cooling	Optional Upgrade
Containment	Blanking Panels
Monitoring	Included
Services	Optional Upgrade
Warranty	3 years
Software	Optional Upgrade

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**.

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	Vertiv™ 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	PSI5-2200RT120	Vertiv™ Liebert® PSI5 UPS model PSI5-2200RT120; 2200VA/1920W; 120VAC compact, Automatic Voltage Regulation (AVR) line-interactive UPS system designed especially for IT applications such as network closets and small data centers. Supports advanced pure sine wave output on battery to safeguard critical IT equipment and electronics. Provides reliable power protection for servers, critical nodes, network workstations, large network peripherals, network routers, bridges, and others.
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	VP8930	Vertiv™ Geist™ Switched Unit Level Monitored Rack PDU VP8930 is a 20A, 120V 0U vertical with input power monitoring and outlet level switching. It has 24 NEMA 5-20R receptacles and a NEMA L5-20P providing 1.9kW of power capacity.

*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	AV3216-001 ACS8016SAC-400	Vertiv™ Avocent AV3000 Rackmount KVM Over IP Switch CAC 8 Port KVM switches Local and Remote Access (AV3108-001). Vertiv™ Avocent ACS 8000 8-port Serial Console Server, Single AC Power (ACS8008SAC-400)
1	Warranty and Service	1WEPSI5-2200	1-year Extended Warranty - This extends standard warranty by one year. Covers electronic parts and batteries.
1	Warranty and Service	PEPPSI-22005Y	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	Avocent® 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.