

## 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.
- 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

<b>Capacity</b>	2200 VA / 1920 W
<b>Rack(s)</b>	42U x 600mm x 1100mm (HxWxD)
<b>Power Protection</b>	Line Interactive UPS
<b>Redundancy</b>	N
<b>Power Distribution</b>	Monitored Unit Level EC, 20A, 120V, Vertical, (24) NEMA 5-20R, 10ft power cord with L5-20P
<b>Cooling</b>	Optional Upgrade
<b>Containment</b>	Blanking Panels
<b>Monitoring</b>	Included
<b>Services</b>	Optional Upgrade
<b>Warranty</b>	3 years
<b>Software</b>	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	PSI5-2200RT120	Vertiv™ Liebert® PSI5 UPS model PSI5-2200RT120
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 OU 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-BASEDSV4.5-100DEV1YR SLV-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** or by contacting a **Vertiv Sales Representative**.