

## Vertiv™ Integrated Rack Solution

Reference Design #19

### Premier Commercial and Office 42U 3 Rack Row 20kVA 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.
- 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.

##### Site-Maintenance

- Ensure continuity of business with remote access and management of critical systems.
- Maximize your investment with on-site equipment maintenance and extended warranty protection.

##### Thermal Management

- Cool critical IT gear in high density or high temperature environments.

#### Form Factor: Row

**Objective:** Support network connectivity in commercial and office environments.

#### Recommended Environment

Indoor unsecure environment with limited climate control providing minimal air conditioning for human comfort where temperature, humidity, and air quality control challenges put IT equipment at risk of damage from uncontrolled heat, dust, and moisture.

- Converted Closet
- Converted Room
- Retail Stock Room
- Distribution Center
- Warehouse
- Factory



#### Integrated Solution Summary

<b>Capacity</b>	18 kVA/ 18 KW
<b>Rack(s)</b>	Qty. 3 - 42U X 800 X 1100 (HXWXD)
<b>Power Protection</b>	Online Double Conversion
<b>Redundancy</b>	N+1 Backup Power, 2N Rack Power Distribution, N Cooling
<b>Power Distribution</b>	208 Volt Three Phase; 30 Amp
<b>Cooling</b>	Included
<b>Containment</b>	Blanking Panels
<b>Monitoring</b>	Optional Upgrade
<b>Services</b>	Included
<b>Warranty</b>	3 years
<b>Software</b>	Included

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:
3	Rack	VR3150	Vertiv™ VR Rack supports a wide variety of equipment, including servers, storage, switches, routers, PDUs, UPSs, console port servers and KVM switches. Dimensions 42U x 800mm x 1100mm (HxWxD).
3	Cable and Airflow Management	VRA1003 VRA1004 VRA1005	Cable management accessories including: Lobster claws, Velco straps, and 1U Horizontal cable manager.
1	UPS	GXT5-20KMVRT11UXLN (2) PD2-103 ASMBCR2GUNNXA4Q	Vertiv™ Liebert® GXT5 UPS 20kVA; 208/120VAC is an online double conversion UPS solution which offers premium power outage protection and continuous power conditioning. Includes (2) PD2-103 power distribution PODs and a rackmount maintenance bypass unit.
6	Rack PDU	UU30009L FSC1N001	Vertiv™ Geist™ rPDU, Switched Outlet Level Monitoring EC, Variable Power Configuration, Vertical, (30) Locking IEC C13, (6) Locking IEC C19, Universal Inlet. L6-30P Facility side cable included.
1	Row Based Air Cooling	CR019RA1Y7XVR0 MCM040E1YDXVR0 301456G15	Vertiv™ Liebert® 19kW CRV row based Air cooling unit, 300mm wide, 208V with MCM040 Condenser 208V including Lee Temp Kit to be used with MCM040 Condenser.
1	Delivery and Installation	vf-O3N-INSTALL	Vertiv™ factory trained technicians will consolidate, deliver and install the solution.
1	Software	DSV4.5-BASE DSV4.5-500DEV 1YRSLV-500DEV	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.

\*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:
2	IT Management	MPU2032DAC-001 CS8032-LN-DAC	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.
1	Software	ENVA-SERVER ENVA-DEV-500 ENVA-STUP-500 ENVA-SERVER-SA ENVA-SA-500	Vertiv™ Environet™ Alert provides industry companies with critical facility monitoring software that is affordable and easy to use. This solution delivers superior monitoring, and alerting.