

Vertiv™ Integrated Rack Solution

Reference Design #20

Premier Conditioned and Controlled 42U 4 Rack Row 24kVA 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.
- 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 critical IT applications in data center 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.

- Enterprise Data Center
- Colocation Data Center
- Managed Hosting Facility
- Cloud Data Center



Integrated Solution Summary

| | |
|---------------------------|---|
| Capacity | 24kVA / 24kW |
| Rack(s) | Qty. 4 - 42U X 800 X 1100 (HXWXD) |
| Power Protection | Online Double Conversion |
| Redundancy | N+1 Backup Power, 2N Rack Power Distribution, N+1 Cooling |
| Power Distribution | 208 Volt Three Phase; 30 Amp |
| Cooling | Included |
| Containment | Blanking Panels |
| Monitoring | Included |
| Services | Included |
| Warranty | 3 years |
| Software | Included |

Explore all *Conditioned and Controlled* form factors and power configurations available, *Rack, Row, and Site* by visiting the *Solution Builder* on Vertiv.com or by contacting a *Vertiv Sales Representative*.

Integrated Solution Includes:

| Qty: | Product Summary | SKU | Description: |
|------|-----------------------------|--|---|
| 4 | 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). |
| 4 | Cable Management | VRA1003 VRA1004 VRA1005 | Cable management accessories including: Lobster claws, Velco straps, and 1U Horizontal cable manager. |
| 1 | Power Distribution (Busway) | MBX25PPNNBNBNN MBX25PPNN1 MBX25PP06NNBNBNN | The Vertiv™ Liebert® Busway provides power distribution from the UPS system to all 4 racks. This busway provides (4) tapboxes, each with (2) L15-30R that feed (2) UU30009L in each rack. |
| 1 | UPS | 47SA100EBC00000 47MBE32CC0R1000 47BPJPX71L10000 | The Vertiv™ Liebert® EXM UPS provides efficient and economical operation with a flexible power system offering scalable and redundant features optimized for midsize IT and critical power applications. This includes a battery cabinet and a maintenance bypass cabinet. |
| 8 | Rack PDU | UU30009L FSC3N002 | Vertiv™ Geist™ rPDU, Switched Outlet Level Monitoring EC, Variable Power Configuration, Vertical, (30) Locking IEC C13, (6) Locking IEC C19, Universal Inlet. L15-30P Facility side cable included. |
| 2 | 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 | IT Management | MPU2032DAC-001 ACS8032-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. |
| 2 | Warranty and Service | 3WC35KWL 3WP35KWL | The row based cooling system is covered for 3 years and includes 3 years of bi-annual PMs. Also included is a warranty inspections to ensure the system is installed properly. |
| 3 | Warranty and Service | MBSEA131C1BA8X5 MPEXM10-200ES1 MUEXM208-40ES1 SPEXM10-200UM | The row based power distribution system is covered for 3 years and includes 3 years of bi-annual PMs. Also included is a warranty inspections to ensure the system is installed properly. |
| 1 | Delivery and Installation | vf-O4N-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: |
|------|-----------------|---|---|
| 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. |

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