



## Table of Contents

### Products

<b>Racks and Integrated Solutions</b> .....	<b>3</b>
<b>Infrastructure Solutions</b> .....	<b>5</b>
<b>UPS</b> .....	<b>5</b>
<b>Vertiv™ PowerIT Rack Power Distribution</b> .....	<b>8</b>
<b>Vertiv™ Powerbar iMPB</b> .....	<b>10</b>
<b>Vertiv™ Avocent® ITS Solutions</b> .....	<b>11</b>
<b>Thermal Management</b> .....	<b>16</b>

Contact your Local Vertiv Office for application support and pricing.

## Racks and Integrated Solutions

### Vertiv™ VR Rack System



**The Vertiv™ Rack** is delivered ready for high density environments to serve your mission critical needs — even as they evolve and change.

- Available in eight standard sizes with load capacities of 3,000 pounds static and 2,250 dynamic.
- All models feature a frame design that delivers about 2.5 inches of additional useable depth compared to competitive racks.
- Features easily removable side panels to help you access your equipment easily, making it easier to make changes in small spaces.
- Tool-less design features enable easy rack configuration and adjustments, equipment installation and service.
- Comes with a three-year limited warranty against defects in material and workmanship.
- Available to ship with integrated rack PDU.

**Capacity:** 3,000 lbs Static Load.

**Rack Sizes:** Heights: 42U, 45U, 48U.

**Widths:** 600mm, 800mm.

**Depths:** 1100mm, 1200mm.

**Key Applications:** Servers and Networking equipment.

**Certifications:** EIA 310E, UL2416, RoHS, REACH, TAA compliant.

### Vertiv™ 2-Post & 4-Post Racks



**The Vertiv™ Rack 2-Post and 4-Post** is a vertical equipment rack designed to support lightweight IT and telecom equipment in network rooms, data centers, or office environments.

- Easy access to IT equipment for installation and maintenance.
- Flexible mounting for lightweight IT equipment.
- Efficient airflow which enhances natural cooling thanks to the open design.

**Rack Sizes:** 12U, 19U, 25U, 45U.

**Depths:** 21", 24", 29", 32", 36".

**Certifications:** UL2416, RoHS, REACH, TAA compliant.

**Key Applications:** Edge applications, servers and networking equipment.

## Vertiv™ Wallmount Racks



The **Vertiv™ Rack Wallmount** is designed to be mounted directly on walls, it organizes and secures devices like network switches and servers, keeping them off the floor and neatly accessible.

- Various depths to serve multiple channels:
  - Short depth for networking applications.
  - Medium depth for deeper networking/edge server.
  - Full depth for edge compute applications (will support full depth servers and more of our UPS's).
- Swings away from wall on hinge for easy back-door access with lock.
- Reversible mounting for left-hand or right-hand opening
- Complete rack stability and security –cabinet elevation/pallet brackets.
- Outer protection –Complete outer wrap & protective inserts.

**Capacity:** 150-300 lbs Static Load.

**Rack Sizes:** Heights: 12U, 19U, 25U.

**Widths:** 535mm, 915mm, 1220mm.

**Depths:** 610mm, 788mm.

**Key Applications:** Edge applications, servers and networking equipment.

**Certifications :** UL2416, RoHS, REACH, TAA compliant.

## Vertiv™ DCE Rack System



The **Vertiv™ DCE rack system** is ideal for today's data centers and is designed to meet flexibility, ease of installation and delivery requirements. The Vertiv DCE comes in pre-configured rack configurations customized to meet your specific needs.

- Compatible with Vertiv™ rack PDUs, Vertiv™ Liebert® rackmount UPS, aisle containment, and Vertiv™ Liebert® modular busway.
- Factory installation of rack accessories for fast deployment.
- Easy installation saves time and money: tool-less hinges, dual split side panels, 19" rail adjustment, U markings on rails, low profile casters, tool-less accessories.
- Comes with a two-year limited warranty against defects in materials and workmanship.

**Capacity:** 3,000 lbs Static Load.

**Rack Sizes:** Heights: 24U, 42U, 45U, 48U.

**Widths:** 600mm, 700mm, 800mm.

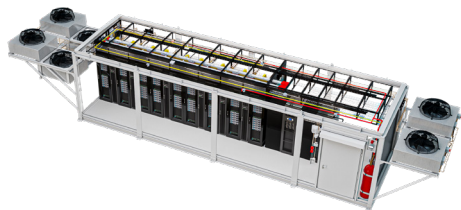
**Depths:** 1100mm, 1200mm.

**Key Applications:** Servers and Networking equipment.

**Certifications:** EIA 310E, UL2416, TAA/BAA/BABA Compliant, IBC2012.

## Infrastructure Solutions

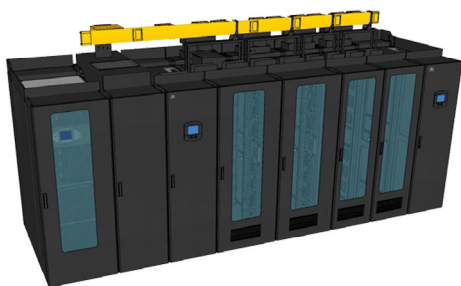
### Vertiv™ SmartMod™



**Vertiv™ SmartMod™** is a flexible platform, optimized for simplified deployment of critical IT assets. For small room IT deployments up to 10 racks and 100kW or less, SmartMod offers a simple way to install capacity in a fraction of the time a typical IT build might take.

- Modular and scalable Liebert EXM UPS power protection.
- Flexible Vertiv VR racks.
- Vertiv rack PDUs.
- Thermal containment to isolate hot aisle and cold aisle airflows for optimum thermal performance.
- Automatic Transfer Switch (ATS) to reliably select normal or emergency power sources.
- Clean agent fire suppression with VESDA early smoke detection.
- Overhead infrastructure, including piping, electrical distribution, and fiber ducts.

### Vertiv™ SmartRow™ DCX



**The Vertiv™ SmartRow™** solution has a room neutral design that lets you avoid many of the significant costs that come with a conventional data center buildout.

- Favorable implementation costs compared to using a conventional data center approach, due to savings from integrated fire suppression and ability to work in an existing non-raised floor environment without dedicated room cooling.
- Reduce energy consumption by up to 27% compared to a data center with conventional design, perform less maintenance and reduce the costs of adding new equipment.

**Capacity:** 20-80kW up to 10 racks.

**Cooling:** In the row DX split system and optional redundancy.

**Power:** N and N+1 configurations.

**Floor:** Primarily non-raised.

**Key Applications:** Small data centers, remote sites, disaster recovery.

**Certifications:** TAA/BAA compliant.

## UPS

### Vertiv™ Liebert® PSI5 Lithium-Ion UPS



**The Vertiv™ Liebert® PSI5 Lithium-Ion TAA Compliant** line-interactive UPSs are ideally suited to protect critical infrastructure in edge or distributed IT applications. When compared to traditional valve-regulated-lead-acid (VRLA) batteries, Lithium-Ion batteries have greater power density, last up to 3 times longer, recharge much more quickly, and can endure up to 10x more discharge cycles. With a 5-year standard warranty, more than double the useful life, and significantly more runtime, the Liebert PSI5 Lithium-Ion TAA UPS is at the top of its class.

- Up to 3x battery life y Lowest TCO
- 5 year standard warranty on UPS and Batteries
- Longer Runtime
- Quicker recharge times
- Smaller and lighter:
  - Greater power density
  - Reduced unit depth
- Up to 10x more discharge cycles
- Greater battery performance in higher temperature environments

## Vertiv™ Liebert® PSI5 UPS, 1500-3000VA Line Interactive with AVR, 2U Rack/Tower



The Vertiv™ Liebert® PSI5 TAA-compliant line interactive UPS system with Automatic Voltage Regulation (AVR) is designed for IT applications such as network closets and small data centers. It comes available in a 2U rack/tower convertible form-factor and allows for intelligent monitoring via an Advanced Rotatable LCD Screen.

- Advanced power protection for IT equipment and applications.
- Pure Sinewave UPS for improved operation and compatibility with electronic equipment.
- More usable output power to support connected equipment.
- Intelligent monitoring via advanced rotatable LCD screen.
- Extended runtime options available.
- Liebert® TAA-Compliant PSI5 models are available that include an installed network communications (SNMP) card for remote monitoring and power management.
- Connected Equipment Protection Plan.

## Vertiv™ Liebert® GXT5 TAA 1000-3000VA VRLA UPS



The Vertiv™ Liebert® GXT5 TAA UPS is an online double conversion UPS solution which offers premium power outage protection and continuous power conditioning in a compact and flexible rack/tower form factor.

- Enhanced local and remote management capabilities enable users to understand the condition of the critical infrastructure space and take action when necessary.
- High power factor operation up to unity provides the highest available power (watt) for use by connected IT equipment, allowing for more connected devices.
- Integrated serial connection for advanced console server integration or direct terminal control of the UPS.
- Energy Star® 2.0 certification with efficiency in online (95%) and Active ECO (98%) modes.
- SNMP network communications with optional Liebert® RDU101NIC and free Vertiv™ Power Insight.
- Gravity-sensing, color LCD for easy configuration and system diagnosis.
- Scalable power with auto-detection of external battery cabinets.
- Connected Equipment Protection Plan.

## Vertiv™ Liebert® EXM UPS, 10-250kVA



The row-based Liebert® EXM is a transformer-free, on-line UPS that provides modular hardware scalability and N+1 redundancy from 10-200kVA in 208 volt configurations and 50-250kVA in 480 volt configurations.

- Reduces energy consumption and operating expenses with up to 99% efficiency in Eco Mode and up to 97% efficiency in double conversion mode.
- Offers future-proof scalability for capacity or redundancy.
- Complemented with a line of optimized ancillaries such as maintenance bypass and battery cabinet options designed to minimize footprint and cost.
- Innovative touchscreen control panel offering unprecedented situational awareness, customer configurability, multiple levels of access security and glove safe operation.
- Improves issue resolution and enhances reliability via the optional integrated Vertiv™ Albér™ BDSUi battery monitoring system, compatible with traditional VRLA batteries, Lithium Ion batteries, or other energy storage devices.
- Leverage the capabilities of our Unity Communications card and sensors to monitor temperature, humidity, access, leaks and more.

**Certifications:** TAA/BAA compliant, UL 1778 , UL 924 and CSA certified. Meets current requirements for safe high performance UPS operation. Energy Star® qualified.

## Vertiv™ Liebert® EXL S1 UPS



**Liebert® EXL S1 UPS** offers the smallest footprint available for its kVA size range and is up to 60% smaller than some competitors. It is also significantly smaller than similar class UPS systems. It allows customers to either redeploy the saved space to implement more revenue generating IT equipment or even reduce the design size of their server rooms.

- Smallest footprint among all competitors at this kVA size.
- Three modes of operating efficiency, Double Conversion (97%), Dynamic Online (99%) and ECO Mode (99%).
- Advanced touchscreen control panel.
- Lithium ion battery compatible.
- Up to 8 units can be paralleled.
- Intelligent paralleling option.
- High Impedance DC Ground Fault detection for 2014 NEC compliance.
- Dual asynchronous source / dual input capable.

## Vertiv™ Liebert® NXL



**Vertiv™ Liebert® NXL** uninterruptible power supply (UPS) provides reliable data center power protection and advanced technology for high power applications. This UPS adds dynamic performance to data center design, handling virtually any input condition while still providing computer-grade output to critical loads.

- Accommodates multiple stacked-up conditions without disrupting power to the load.
- Top or bottom cable entry.
- Up to 98% efficient in Intelligent Eco-Mode and 94% in double conversion mode.
- Single and multi-module systems.
- Color touchscreen controls.
- Up to 0.95 leading power factor without derating.
- High input fault current capability.
- Matching battery cabinets and maintenance bypass cabinets.
- Ship-ahead I/O section can be installed before UPS installation.
- LIFE™ Services for remote monitoring and proactive services delivery.
- Energy Star® qualified.

## Vertiv™ Liebert® Trinergy™ Cube UPS



With its high-power density cores, **Liebert® Trinergy™ Cube** is the only static, hot-scalable UPS today able to reach up to 1.6 MW in a single unit, thus allowing extraordinary flexibility and capacity levels. It can be configured in a straight row, L-shape, or back-to-back design.

- Dynamic Online mode for highest availability and up to 99% efficiency.
- Internal redundancy.
- Vertiv™ LIFETM Services remote diagnostic and preventive monitoring embedded in the UPS.
- Single unit configuration up to 1.6 MW.
- I/O Box and cores rated to operate continuously up to 55°C and capable of providing increased performance down to 20°C.

## Vertiv™ PowerIT Rack Power Distribution

### Vertiv™ PowerIT Rack Transfer Switch



**The Vertiv™ PowerIT Rack Transfer Switch** delivers redundant power to single-corded devices. The RTS automatically detects the loss of power and switches the power load to the alternative power source in less than 4-8 milliseconds without the need for human intervention.

**Certifications:** TAA Compliant.

- Uses an open transition switch utilizing a break-before-make process for transferring between the primary and secondary power source.
- Supports out of phase transfers, eliminating a need for phase synchronization.
- Includes enhanced redundant switches and fail-safe fused thermistors to mitigate current surge during transfers, ensuring critical equipment is protected during fail-over.
- Less than 4-8ms Transfer Speeds.
- Select units feature the Combination Outlet C13/C19 receptacle to accommodate everchanging rack power requirements with the flexibility to connect C14 and C20 plugs in the same outlet.
- The upgradeable, hot-swappable IMD enables seamless upgrades and replacements.
- Can be shipped integrated in a Vertiv™ VR rack.



## Vertiv™ PowerIT Switched Rack PDU



**Certifications:** TAA compliant.

**The Vertiv™ PowerIT Switched Rack PDU** family delivers reliable power distribution with the ability to monitor and control power at each outlet.

- Bistable latching relays significantly reduce the unit's power consumption.
- The hot-swappable interchangeable Monitoring Device (IMD) includes directory access protocol for secure authentication and is upgradeable to add capabilities as needed.
- Select units come with patented U-Lock receptacles to prevent unintentional dislodging of power cords.
- Can be shipped integrated in a Vertiv™ VR rack.
- Select units feature the Combination Outlet C13/C19 receptacle to accommodate ever-changing rack power requirements with the flexibility to connect C14 and C20 plugs in the same outlet.

## Vertiv™ PowerIT Monitored Rack PDU



**Certifications:** TAA compliant.

**The Vertiv™ PowerIT Monitored Rack PDU** family delivers reliable power distribution with the ability to monitor input power to plus or minus 1 percent accuracy and provide environmental monitoring capabilities.

- The upgradeable, hot-swappable IMD enables seamless upgrades and replacements.
- Fault-tolerant daisy chaining can link up to 40 devices to provide redundancy.
- Select units come with patented U-Lock receptacles to prevent unintentional dislodging of power cords.
- Select units feature the Combination Outlet C13/C19 receptacle to accommodate ever-changing rack power requirements with the flexibility to connect C14 and C20 plugs in the same outlet.
- Can be shipped integrated in a Vertiv™ VR rack.

## Vertiv™ PowerIT Basic Rack PDU



**Certifications:** TAA compliant.

**The Vertiv™ PowerIT Basic Rack PDU** family delivers reliable power distribution at a competitive price point.

- Every unit is 100% tested for reliability and functionality.
- Flexibility to meet a broad range of requirements, with a variety of electrical and receptacle configurations available.
- North American units are UL listed in accordance with common data center and insurance provider requirements.
- Can be shipped integrated in a Vertiv™ VR rack.

## Vertiv™ PowerIT Universal PDU (UPDU)



**Certifications:** TAA Compliant.

The **Vertiv™ PowerIT UPDU (Universal Power Distribution Unit)** and **Vertiv™ Geist™ FSC (Facility Side Cable)**, utilize a universal input to simplify global IT power infrastructure deployments by enabling a single Geist™ UPDU model to be used with a wide range of Vertiv™ Geist™ FSC options available in various regionally-specific power configurations.

- 11kW and 22kW max power capacity models available to meet current and future power requirements.
- Color-coded U-Lock receptacles provide easy circuit identification and extra secure protection.
- Combination Outlet C13/C19 receptacles accommodate ever-changing rack power requirements with the flexibility to connect C14 and C20 plugs in the same outlet.
- Remote management through serial communication or any standard web browser.
- Dual network ports allow a fault-tolerant daisy-chain loop of up to 40 rPDUs, or connect up to 50 rPDUs using IP aggregation.
- All universal PDU models include ports for environmental sensors like temperature and door position.
- Every unit is individually tested to ensure reliability and functionality.

## Vertiv™ Powerbar iMPB

### Vertiv™ Powerbar iMPB



Ideal for dynamic data center environments, the modular **Vertiv™ Powerbar iMPB** allows businesses to cost-effectively optimize and adapt power distribution infrastructure over time. User friendly tap-off boxes can be placed anywhere along the busway for easy integration into any data center layout and speedy scalability. The adaptive busway design also maximizes availability with continuous power delivery to critical loads even during upgrades and changes.

- Solution is ideal for data centers of any size, having slab or raised floors, that have frequent or planned power configuration changes.
- Variety of capacity and connection configurations support optimization and adaptation over time with minimal outside support needed.
- Continuous power delivery is enabled with hot-swappable tap-off boxes having breaker protection that isolates active IT loads as well as close proximity branch breakers that support proper administration.

## Vertiv™ Avocent® ITS Solutions

### Vertiv™ Avocent® HMX 5000/6000/8000 High Performance KVM Systems



**Certifications:** TAA, CE, FCC approvals.

**The Avocent® HMX High Performance KVM system** is a digital, IP-based solution that provides a highly flexible way to connect hundreds of users to thousands of servers and workstation equipment in a secure, real-time manner.

- Ideal for control rooms with real-time control with pixel perfect digital video, supporting resolutions up to 2560 x 1600 at 60Hz.
- Supports redundant network operation through units that automatically detect whether the network is in operation and automatically change to a second port when a failure is detected.
- Enables connection of USB devices from mice and keyboards through to graphics tablets and joysticks alongside mass storage devices.
- Remote maintenance and out-of-band BIOS level access with high video performance through Real VNC viewer.
- Easy centralized management with user rights and audit trails through the Avocent® HMX Advanced Manager.
- Small form factor transmitter available that takes up zero-U of rack space.

### Vertiv™ Avocent® Longview™ 5500/5520 Extenders



**Certifications:** TAA, CE, FCC approvals.

**The Avocent® LongView™ 5000** series of high performance extender solutions provide a desktop experience in environments where conditions make it advantageous to operate and manage critical business systems from a secure, monitored location.

- Users can access systems and applications remotely without sacrificing video quality, audio quality or device capability.
- Single or Dual Head High-definition Display Port Video Supports DisplayPort Dual Mode (DP++) and can transmit maximum resolution of up to 3840 x 2160 @ 60 Hz(UHD 4K). The 5500 offers local port passthrough while you get true dual head 4K via the 5520.
- USB 2.0 enables connection of up to six USB human interface devices including mice, keyboards, graphics tablets, touchscreens, jog shuttles, joysticks, 3D explorers, mass storage devices and isochronous devices like webcams and headsets.
- Analog and Digital audio options available.
- Plug and play: the LongView Series extenders are delivered in a zero config state so you can plug them in and start working right away without waiting for drivers or software to install.

## Vertiv™ Avocent® HMX 6500R High Performance KVM Receiver



The **Avocent® HMX 6500R High Performance KVM System** receiver delivers KVM and VM access without requiring additional hardware or compromise on KVM functionality.

- Crisp and clear picture quality, audio, and USB 2.0 to single/dual screens over a single 1GbE link.
- Real-time access to unlimited physical and virtual machines from a single human-machine interface.
- Dual-head displays for physical machines or Single-head display for virtual machines (not both).
- Virtual Machines count towards endpoint license.
- Accessible anywhere on any device with ease and security.

## Vertiv™ Avocent® MergePoint Unity™ KVM over IP Switch



**Certifications:** TAA compliant, FIPS 140-2.

**Compliance:** Based on the FIPS 140-2 validated cryptographic module(s) (Certificate #1051).

The **Avocent® MergePoint Unity™ KVM over IP Switch** provides IT administrators a complete remote management solution to access and control servers, networking equipment and other devices found in data centers and branch offices.

- Meet service level agreements and minimize downtime through a unified approach that provides IT administrators a faster method to diagnose, reconfigure or restore equipment.
- Virtual Media support enables USB media such as CD-ROMs, flash memory and external drives to be virtually attached to a remote server's USB port.
- CAC/Smart Card Support allows remote or local users to map a USB-based smart card reader to the attached servers and authenticate using their smart cards.
- FIPS 140-2 compliance: based on the FIPS 140-2 validated cryptographic modules (certificate number 1051).
- Remote KVM sessions support HTML5 which eliminates the need to install a java on clients.

## Vertiv™ Avocent® LCD Local Rack Access (LRA) Console



**Certifications:** TAA compliant, UL, CE, CCC, BSMI, RCM, cUL, IC, EAC, VCCI, KCC FCC Class A.

The **Avocent® LRA Console family** provides the simplicity, efficiency and ease of use to make it the perfect in data center access point. The LRA line enables ease of access to multiple servers making software upgrades, troubleshooting, and system monitoring convenient and less time-consuming.

- Provides an installed and integrated access point in the data center.
- Requires only 1U of rack space.
- Compatible with all Vertiv data center KVM switches.
- Keyboard available in 8 languages.
- Power efficient during operation and standby.
- Available in an 8- or 16-port digital KVM switch bundle.
- Includes a widescreen LED LCD panel and a full desktop-style keyboard with touchpad.

## Vertiv™ Avocent® Cybex™ SC800 and SC900 Secure Desktop KVM Switches



**Certifications:** TAA compliant, BAA, Designed for NIAP / Common Criteria Protection Profile for Peripheral Sharing Device (PSD) v4.0.

The Avocent® Cybex™ SC800 / SC900 Secure Desktop KVM switches are field-proven, secure, KVM switching solutions with special support for government agencies and security conscientious organizations.

- The Cybex SC800/900 DPH, DPHC, and DVI-D series secure desktop KVM switching portfolio, available in single and dual head models, eliminates redundant peripherals and reduces desktop clutter.
- Prevents information leaks, transfer or crosstalk between adjacent ports and filters ultrasonic audio frequencies via unidirectional optical data diodes (UODD).
- Active intrusion detection and tamper-evident holographic labels prevent hardware from being compromised.
- Universal Video Connectors support DP, HDMI, and DVI-D.

## Vertiv™ Avocent® Cybex™ Secure MultiViewer KVM Switch



**Certifications:** Designed for Common Criteria Protection Profile for Peripheral Sharing Device (PSD) v4.0.

The Avocent® Cybex™ Secure MultiViewer KVM continues to provide the KVM solution required in accessing both classified and non-classified data.

Simultaneously view multiple computers on a single display.

- Ability to interact with various security classifications on a single screen.
- With CNS, keyboard and mouse transitions seamlessly when moving the cursor across window borders while holding the left CTRL key.
- Universal video connectors support DP, HDMI or DVI-D.
- Smart-card (CAC) or biometric readers for authentication across multiple secure computers.
- Multi-colored button LEDs for enhanced channel identification.

## Vertiv™ Avocent® Cybex™ SCM 100 Series Secure Desktop Matrix



**Certifications:** TAA compliant, BAA, Designed for NIAP / Common Criteria Protection Profile for Peripheral Sharing Device (PSD) v4.0.

The Avocent® Cybex™ SCM 145 secure desktop Matrix KVM switch offers a proven solution for guarding against cyber intrusion at the desktop.

- Allows users to securely interact with multiple computers and observe two active computers simultaneously thus improving situational awareness Through cursor navigation switching (CNS), users have the flexibility to manage and monitor their data by simply pressing the left CTRL key and moving their mouse across window borders.
- Dedicated peripheral port permits a secure connection to external USB devices, including CAC smart card readers, fingerprint readers, and face recognition devices.
- Universal data connectors support DP, HDMI, and DVI-D.
- Protected video display emulators eliminate potential data leakage from display to computer.
- Unidirectional Optic Data Diodes (UODD) allow data to only flow in one direction.

## Vertiv™ Avocent® Cybex™ SCKM 100 Secure Desktop KM Switches



**Certifications:** TAA/BAA compliant, CE, RCM, FCC class B, VCCI, TUV US, TUV Canada, Designed for NIAP / Common Criteria Protection Profile for Peripheral Sharing Device (PSD) v.4.0.

**The Avocent® Cybex™ SCKM 100 switch** provides real-time access to up to 4 systems at a time from a single keyboard and mouse.

- Cursor navigation switching lets users switch control between systems by simply moving the mouse cursor from one display monitor to another while pressing the left CTRL key.
- Unidirectional Optical Data Diodes (UODD) assure YSB peripheral isolation enabling data flow from devices to host only.

### Vertiv™ Cybex™ Desktop KVM & Accessories

Accessory	Description	SC820DPH-400	SC920DPH-400	SC840DPH-400	SC940DPH-400	SC840DPHC-400	SC940DPHC-400	SC840DVI-400	SC940DVI-400	SC845DPH-400	SC945DPH-400	SC845DPHC-400	SC945DPHC-400	SC985DPH-400	SCM140PP4-400	SCM145DPH-400	SCM185DPH-400	SCMV245DPH-400	SCMV285DPH-400	SCMV2160DPPH-400	SC825SFF-400	SC925SFF-400	SC845SFF-400	SC945SFF-400	SC885SFF-400	SC985SFF-400	SCMV245SFF-400	Target Computer Only
AFPO004	4 port Active Front Panel (AFP) remote KVM switch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓										
AFPO008	8 port Active Front Panel (AFP) remote KVM switch														✓		✓		✓									
AFFC0004	4 port Active Front Panel (AFP) color remote KVM switch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			✓	✓	✓	✓			✓	
AFFC0008	8 port Active Front Panel (AFP) color remote KVM switch																									✓	✓	
AFPM0002	2 port Active Front Panel (AFP) micro remote KVM switch																					✓	✓					
AFPM0004	4 port Active Front Panel (AFP) micro remote KVM switch																						✓	✓				✓
AFPM0008	8 port Active Front Panel (AFP) micro remote KVM switch																								✓	✓		
AFPSPLITTER	AFP Splitter for Matrix																✓	✓	✓	✓	✓							
CBL0102T	CABLE, 1-DISPLAYPORT/1-USB/1-AUDIO, 6FT, TAA	✓		✓		✓				✓		✓					✓	✓	✓	✓	✓							
CBL0103T	CABLE, 1-DISPLAYPORT/1-USB/1-AUDIO, 10FT, TAA	✓		✓		✓				✓		✓					✓	✓	✓	✓	✓							
CBL0106T	CABLE, 2-DISPLAYPORT/1-USB/1-AUDIO, 6FT, TAA		✓		✓		✓				✓		✓	✓			✓	✓	✓	✓	✓							
CBL0107T	CABLE, 2-DISPLAYPORT/1-USB/1-AUDIO, 10FT, TAA		✓		✓		✓				✓		✓	✓			✓	✓	✓	✓	✓							
CBL0110T	CABLE ASSY, 1-HDMI/1-USB/1-AUDIO, 6FT, TAA	✓				✓				✓		✓					✓	✓	✓	✓	✓							
CBL0111T	CABLE ASSY, 1-HDMI/1-USB/1-AUDIO, 10FT, TAA	✓		✓		✓				✓		✓					✓	✓	✓	✓	✓							
CBL0114T	CABLE ASSY, 2-HDMI/1-USB/1-AUDIO, 6FT, TAA		✓		✓		✓				✓		✓	✓			✓	✓	✓	✓	✓							
CBL0115T	CABLE ASSY, 2-HDMI/1-USB/1-AUDIO, 10FT, TAA		✓		✓		✓				✓		✓	✓			✓	✓	✓	✓	✓							
CBL0130T	CABLE ASSY, 1-USB-A to USB-B, 6FT, TAA									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
CBL0131T	CABLE ASSY, 1-USB-A to USB-B, 10FT, TAA									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
CBL0188T	6ft DP/DP Video only Cable	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓							
CBL0189T	6ft HDMI/HDMI video Only cable	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓							
CBL0190T	6FT DVID/DVID VIDEO ONLY CABLE								✓	✓																		
CBL0191T	6FT DVID/HDMI VIDEO ONLY CABLE	✓	✓	✓	✓	✓	✓		✓	✓							✓	✓	✓	✓	✓							
CBL0194T	10FT MINIDP TO DP SH WITH DPP									✓							✓	✓	✓	✓	✓							
CBL0195T	10FT MINIDP TO DP DH WITH DPP									✓							✓	✓	✓	✓	✓							
CBLMHSHDP0100T	Micro Secure KVM host cable SH DP																					✓	✓	✓	✓	✓	✓	✓
CBLMHDHDP0101T	Micro Secure KVM host cable DH DP																					✓	✓	✓	✓	✓	✓	✓
CBLMHSHH0102T	Micro Secure KVM host cable SH HDMI																					✓	✓	✓	✓	✓	✓	✓
CBLMHDHH0103T	Micro Secure KVM host cable DH HDMI																					✓	✓	✓	✓	✓	✓	✓
CBLMHDHU0104T	Micro Secure KVM host cable DH USB-C																					✓	✓	✓	✓	✓	✓	✓
CBLMCSHDP0105T	Micro Secure KVM console cable SH DP																					✓	✓	✓	✓	✓	✓	✓
CBLMCDHDP0106T	Micro Secure KVM console cable DH DP																					✓	✓	✓	✓	✓	✓	✓
CBLMCSHH0107T	Micro Secure KVM console cable SH HDMI																					✓	✓	✓	✓	✓	✓	✓
CBLMCDHH0108T	Micro Secure KVM console cable DH HDMI																					✓	✓	✓	✓	✓	✓	✓
CBLMCSHU0109T	Micro Secure KVM console cable SH USB-C																					✓	✓	✓	✓	✓	✓	✓
CBLMCDHU0110T	Micro Secure KVM console cable DH USB-C																					✓	✓	✓	✓	✓	✓	✓
DMKM-01	Desk Mount Kit for Micro KVM (VESA Monitor Mount)																					✓	✓	✓	✓	✓	✓	✓
DMKM-02	Desk Mount Kit for Micro KVM																					✓	✓	✓	✓	✓	✓	✓
RMK-102	RACKMOUNT KIT for SC8XX/SC9XX														✓					✓	✓							
SCMDR0001-400	SC MDR Smart-Card Reader, 4P																											✓
SCUSBHIDFILTER	SC USB HID Filter with eLock	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
SCUSBPORTBLOCK	SC USB Port Block with eLock																											✓
SCVI-HDMI-HDMI	Secure video isolator HDMI to HDMI	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
SCVI-DP-DP	Secure video isolator DP to DP	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
SCVI-HDMI-DP	Secure video isolator HDMI to DP	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
SCVI-DP-HDMI	Secure video isolator DP to HDMI	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
USBCKVMDHNP	10ft USB-C (PC) to Dual Display DP (KVM) adapter cable +ETH +PWR		✓		✓				✓					✓			✓	✓	✓	✓	✓							
USBCKVMSHNP	10ft USB-C (PC) to Single Display DP (KVM) adapter cable +ETH +PWR	✓		✓				✓		✓							✓	✓	✓	✓	✓							
USBCUSBCNP	10ft USB-C (PC) to USB-C (KVM) adapter cable +ETH +PWR					✓	✓				✓	✓																

	When using 6ft TAA Target Cable - match with 10ft CBL0131T for DPP (CAC) Cable
	When using 10ft TAA Target Cable - match with 6ft CBL0130T for DPP (CAC) Cable
Matrix & MultiViewer Secure Desktop KVMs	These KVMs can be utilized as either a SH or DH switch w/ or w/o DPP (CAC) for cabling purposes
	Future Products being released in 2025

## Thermal Management

### Vertiv™ Geist™ SwitchAir™



**Certifications:** TAA/BAA compliant.

**The Vertiv™ Geist™ SwitchAir™** helps prevent network switch failure by channeling cool air from the front of the rack to the air intakes of the device regardless of where the equipment is mounted.

- Creates a barrier to effectively prevent hot exhaust air from recirculating to device intakes.
- Simple and quick installation in all standard racks or cabinets.
- Reduces the chance of network switches overheating and premature equipment failure due to high intake temperatures by directing cool air to device intakes.
- Improves equipment efficiency by providing network equipment with the same cold aisle air temperature as other devices in the rack.
- Standard three-year warranty, upgraded to five years with product registration.

### Vertiv™ Liebert® CRV Self-Contained Row-Based Data Center Cooling, 19-40kW



**The Vertiv™ Liebert® CRV system** offers highly flexible, in-row cooling for data centers requiring higher density cooling with greater efficiency and capacity.

- Integrates within a row of data center racks, providing cooling close to the server heat source, for efficient and effective data center heat management.
- Precision cooling and humidity control.
- Features variable speed EC plug fans and variable capacity digital scroll compressor.
- Operates efficiently with Vertiv™ Liebert® iCOM™ controls.

**Certifications:** TAA/BAA compliant, AHRI.



## Vertiv™ Liebert® PDX Cooling System



**The Vertiv™ Liebert® PDX** direct expansion cooling system offers the industry's highest efficiency, protection and capacity per footprint for server room cooling, network closets and other small spaces.

- EC fans reduce motor energy usage up to 80%, compared to standard AC motors. More efficient than centrifugal blowers even when operating at 100% fan speed.
- Unique, floor-level air discharge reduces mix between hot and cold air, improving efficiency.
- Self-optimizing controls protect against adverse events, providing availability approaching 100%.

## Vertiv™ DCD Rear Access Doors



**The Vertiv™ Liebert® DCD** active chilled-water cooling unit is a highly efficient heat exchanger module that mounts on the rear of an IT rack and provides up to 47kW of room-neutral cooling. The active fan module mounts on the DCD passive door and aids the server fans in properly removing the heat load from the high-density application. The DCD can be supplied by either the existing chilled water system or by a coolant distribution unit, such as the Liebert® DCP, providing flexibility during installation.

- Low energy consumption using variable speed fans to match airflow with demand provides low operational costs and high energy efficiency.
- Mounts on the rear side of the network rack, saving valuable floorspace for additional critical IT equipment.
- Few moving parts enable a much longer product lifespan, ensuring high cooling availability for years.
- Multiple inlet/outlet water connection options provide flexibility during selection and installation.
- Non-condensing heat exchanger reduces the risk of damage to critical IT equipment, providing peace of mind to IT managers.
- Available with advanced monitoring controls to provide easy remote access through Modbus communication.
- Doors swing open 135°, allowing for easy access to equipment inside the rack.

## Product

## TAA BAA Additional Certifications

### Single Phase UPS

Vertiv™ Liebert® PSI5 UPS 1500-3000VA VRLA UPS	✓		UL 1778, c-UL, ANSI C62.42, Energy Star, FCC, RoHS2, REACH
Vertiv™ Liebert® PSI5 Lithium UPS 1500-300VA	✓		UL 1778, UL1642, UL 1973, UN38.3, c-UL, ANSI C62.41, Energy Star, FCC, RoHS2, REACH
Vertiv™ Liebert® GXT5 TAA 1000-3000 VA VRLA UPS	✓		UL 1778, CSA, ANSI C62.41, Energy Star, FCC, RoHS2, REACH

### Power Distribution

Vertiv™ PowerIT Rack Transfer Switch	✓	✓	UL & c-UL Listed 62368-1, RoHS Compliant, FCC Part 15 Class A Conformance (Monitored, Switched, Switched & Outlet Monitored Models Only), UL 2900 (IMD-5M Models Only)
Vertiv™ PowerIT Switched Rack PDU	✓	✓	
Vertiv™ PowerIT Monitored Rack PDU	✓	✓	
Vertiv™ PowerIT Basic Rack PDU	✓	✓	
Vertiv™ PowerIT Universal PDU (UPDU)	✓	✓	

### Busway and Busduct

Vertiv™ Powerbar iMPB	✓	✓	
-----------------------	---	---	--

### Racks

Vertiv™ VR Rack System	✓		EIA 310E, UL2416, RoHS, REACH
Vertiv™ DCE Rack System	✓	✓	EIA 310E, UL2416, IBC2012
Vertiv™ Wallmount, 2-Post, 4-Post Racks	✓		UL2416

### Integrated Solutions

Vertiv™ SmartMod™	✓	✓	
Vertiv™ SmartMod™ Max CW	✓	✓	
Vertiv™ SmartMod™ Max DX	✓	✓	
Vertiv™ MegaMod™	✓	✓	
Vertiv™ SmartMod™ Combo	✓	✓	
Vertiv™ SmartMod™ Combo	✓	✓	
Vertiv™ SmartMod™ Combo	✓	✓	

### Thermal

Vertiv Liebert CRV Row Based Data center cooling 10-40kW	✓	✓	BAA available through ETO request, AHRI
Vertiv™ Liebert® PDX Cooling System	✓	✓	
Vertiv™ CoolLoop RDHx	✓	✓	
Vertiv™ CoolLoop Thermal Wall	✓	✓	BAA available through ETO request
Vertiv™ Liebert® DSE Free-Cooling Economization System, 50-265kW	✓	✓	
Vertiv™ Liebert® CW Chilled Water Cooling System, 38-181 kW	✓	✓	AHRI
Liebert® CW Chilled Water-cooling System, 305-440kW	✓		
Vertiv™ Liebert® Mini-Mate, Ceiling-Mounted Variable Capacity Coolin, 10.5, 14 & 17.5kW	✓	✓	BAA available through ETO request
Vertiv Liebert Mini-Mate, ceiling mounted precision cooling system 3.5-28kw	✓	✓	BAA through ETO
Vertiv™ Liebert® AFC inverter screw free cooling chiller range with low-GWP refrigerant from 900 to 1800 kW	✓		
Vertiv™ Liebert® PCW Compact Chilled Water Cooling System, 11-29kW	✓	✓	BAA available through ETO request, AHRI
Vertiv™ Liebert® AFC Chillers	✓		

## Product

## TAA BAA Additional Certifications

### Three Phase UPS

Product	TAA	BAA	Additional Certifications
Vertiv™ Liebert® EXM UPS, 10-250kVA	✓	✓	
Vertiv™ Liebert® EXL S1 UPS	✓	✓	
Vertiv™ Liebert® NXL	✓	✓	
Vertiv™ Liebert® Trinergy™ Cube UPS	✓	✓	

### IT Systems (Avocent®)

Product	TAA	BAA	Additional Certifications
Vertiv™ Avocent® HMX 5000/6000/8000 High Performance KVMs	✓		CE, FCC, UL, RCM, BiS
Vertiv™ Avocent® Longview™ 5500/5520 Extenders	✓		CE, FCC approvals
Vertiv™ Avocent® HMX 6500R High Performance KVM Receiver	✓		
Vertiv™ Avocent® MergePoint Unity™ KVM over IP Switch	✓		FIPS 140-2
Vertiv™ Avocent® LCD Local Rack Access (LRA) Console	✓		UL, CE, CCC, BSMI, RCM, cUL, IC, EAC, VCCL, KCC FCC Class A
Vertiv™ Avocent® Cybex™ SC800 and SC900 Secure Desktop KVM Switches	✓		NIAP PP4.0; EAL4+; FCC class A; CE; UKCA; TUV – US; TUV – Canada; RCM; VCCI
Vertiv™ Avocent® Cybex™ Secure MultiViewer KVM Switch	✓		NIAP PP4.0; EAL4+; FCC class A; CE; UKCA; TUV – US; TUV – Canada; RCM; VCCI
Vertiv™ Avocent® Cybex™ SCM 100 Series Secure Desktop Matrix	✓		
Vertiv™ Avocent® Cybex™ SCKM 100 Secure Desktop KM Switches	✓		
Vertiv™ Avocent® ACS8000	✓		
Vertiv™ Avocent® IPIQ IPUHD	✓		UL, FCC Part 15, cUL, ICES-003, CE, RoHS, REACH, EAC, VCCI, KCC, RCM, BSMI, NOM, and FIPS140-2
Vertiv™ Avocent® IPSL MP1000 Appliance	✓		EMI: EN55032 Class A EN55024 EN55035 EN61000-3-2 EN61000-3-3 FCC Part 15, Subpart B Class A VCCI Class A CCC BSMI 13438 Safety CB UL CCC BSMI 14336-1 RoHS-2.0 Compliant
Vertiv™ Avocent® RM1048P	✓		UL, FCC Part 15, cUL, ICES-003, CE, RoHS, REACH, EAC, VCCI, KCC, RCM, SMI, CCC, NOM, FIPS140-2



**Vertiv.com** | Vertiv Headquarters, 505 N Cleveland Ave, Westerville, OH 43082, USA

© 2025 Vertiv Group Corp. All rights reserved. Vertiv™ and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.