



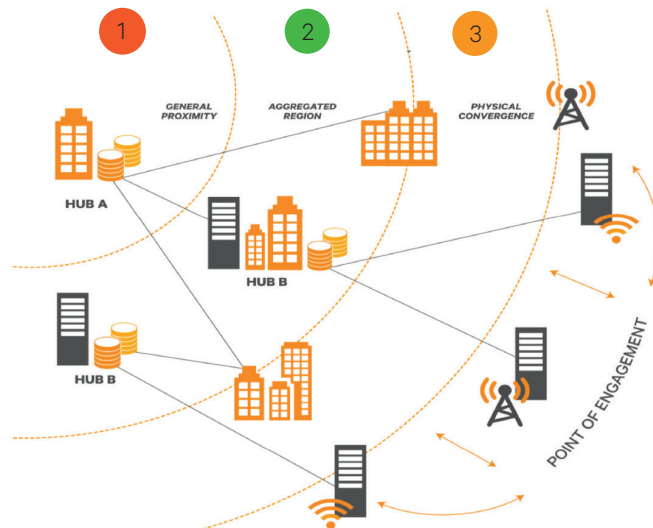
Vertiv™ SmartSolutions™

Intelligent, Integrated Containment
for IT Infrastructure



A CHANGING DIGITAL WORLD

- 1 Traditional**
 - Cloud / Data Center
- 2 Local**
 - Aggregation Sites
 - Metro Data centers
- 3 Edge**
 - Cloud / Data Center

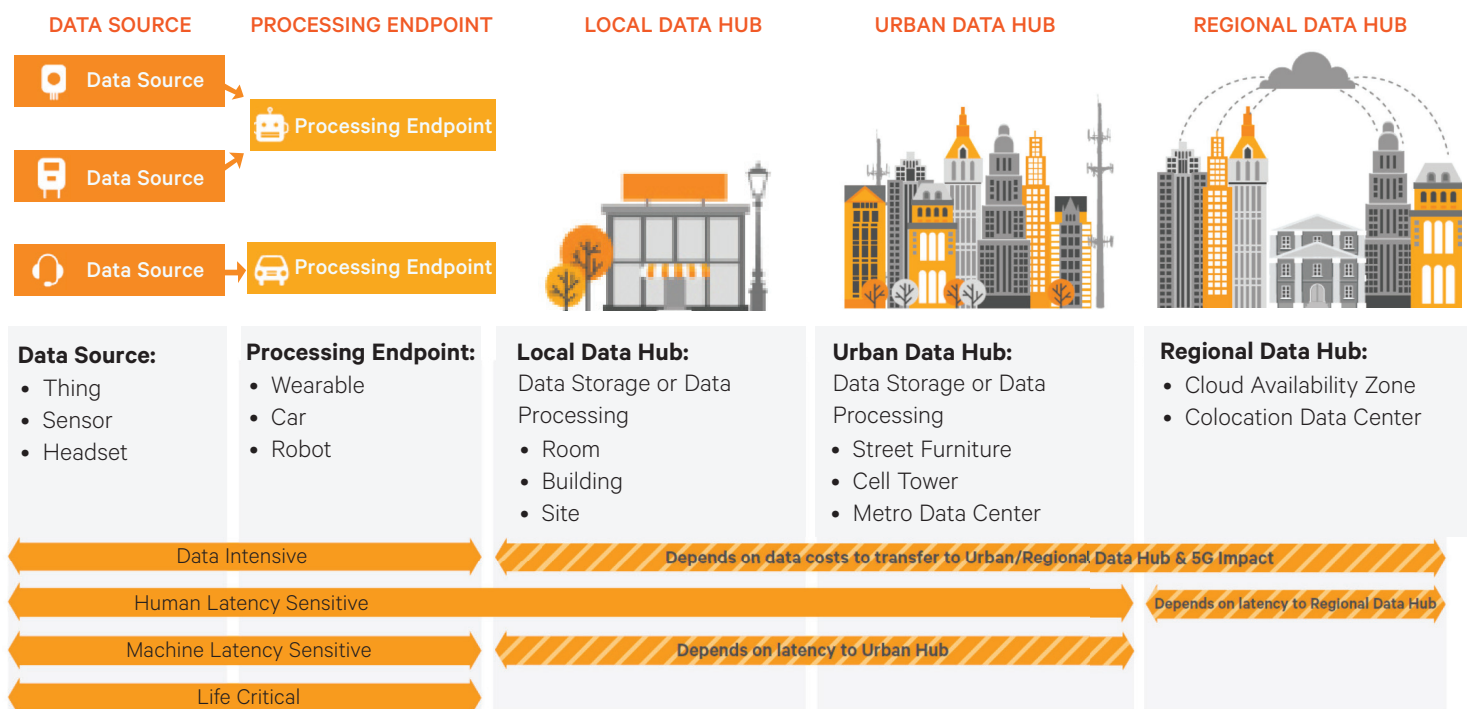


Traditionally, data was generated at the Core and consumed at the Edge.

This model is now changing, with the large and growing number of smart devices and sensors generating a massive amount of information at the Edge.

Just a fraction of the content created at the Edge will be sent to the Core. Most of it will be processed and filtered at Edge sites.

What will enable this major shift?



Vertiv researched and analyzed the technology drivers and requirements of Edge use-cases across a wide range of business segments and verticals. The use-cases were each assigned to one of four archetypes that best characterize its intent and challenges:

- Data Intensive
- Human Latency
- M2M Latency
- Life Critical

Rapidly deploy and manage IT infrastructure in just weeks without building new data center space. Our Vertiv™ SmartSolutions™ products help you meet your IT needs with significant savings. With simplified, standardized designs, you can start small and expand over time.

The Vertiv™ SmartSolutions™ approach gives you the efficiency, economy, interoperability, and control to implement an infrastructure strategy that outperforms any you've ever seen.

Vertiv SmartSolutions helps you costeffectively achieve and manage higher levels of density, availability, and efficiency.



EFFICIENT	ECONOMICAL	SIMPLIFIED	CONTROLLABLE
<ul style="list-style-type: none"> • Reduce annual energy costs –up to 27% through high-efficiency power, dedicated cooling and management technologies and containment • Optimize space efficiency through an integrated system • Reduce maintenance costs with reliable design and efficient operation that minimizes wear and tear and requires less servicing • Increases IT efficiency by streamlining and centralizing monitoring and management 	<ul style="list-style-type: none"> • Reduce total time and cost of implementation order, install and implement within just weeks • Save up to 28% on room upgrades compared to upfitting a room as a conventional data center 	<ul style="list-style-type: none"> • Simplify implementation through an integrated design • Easily operate and manage infrastructure systems through integrated controls • Ensure continuity of business operations with single system startup, warranty, preventive maintenance and repair • Utilize industry-leading service and support provided by local data center design experts 	<ul style="list-style-type: none"> • Ensure efficiency and availability with Liebert® iCOM™ controls — manage cooling to optimize IT equipment performance and life • Enhance performance and anticipate potential problems before they occur with infrastructure monitoring and management appliances and software • Increase physical security and equipment protection with lockable cabinets and access alerts

The Next Generation Edge Solution for Digital Transformation

Vertiv™ SmartCloset™

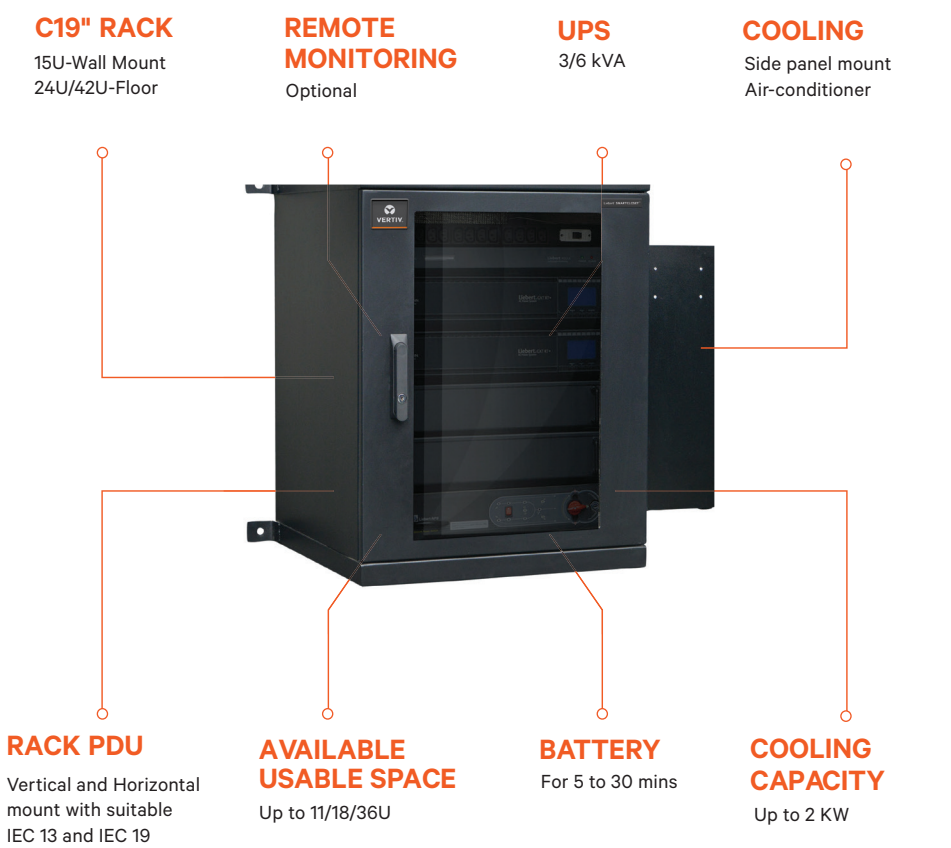
Vertiv™ SmartCloset™ is the new standalone self-contained rack from Vertiv, along with inbuilt power and cooling. It facilitates the housing and trouble-free installation of active IT equipment like switches, routers and so on - for which, an open environment is not conducive for healthy performance.

Features and Benefits

- **Dedicated Rack mount cooling** - The air conditioner capacity is designed considering only rack equipment load and rack volume, thus saving on both
- **Rack mount UPS and Battery**
- A single rack for housing both power and active equipment offers lesser footprint and saves on critical space area.
- **High sensible cooling and 24x 7 application** - As IT equipment is designed to run 24x7 and typically dissipate sensible heat load, Vertiv™ SmartCloset™ is exclusively designed for such applications to deliver maximum efficiency.
- **Cooling unit with safety features** - The air conditioner comes with HP/LP switch and Under/ Over voltage protection for sites at remote locations and with high voltage fluctuations.
- **Rack Monitoring - (Optional feature)** Rack environment monitoring like temperature, humidity, door sensor, smoke sensor, etc.

Vertiv™ SmartCloset™ is suitable for any location like factories, warehouses, branch offices, and retail stores where ambient conditions and temperatures are not in control; and also where dust and dirt are common.

Compact and powerful with inbuilt power and cooling.



Vertiv™ SmartCabinet™

Vertiv™ SmartCabinet™ empowers Enterprise Class IT Infrastructure through the provision of integrated enclosure, power, cooling, and service.

Critically it also enables the most vital element - namely 360° visibility of all system components.

Customers can effectively manage and plan their IT Infrastructure with real time monitoring and insight into system performance.

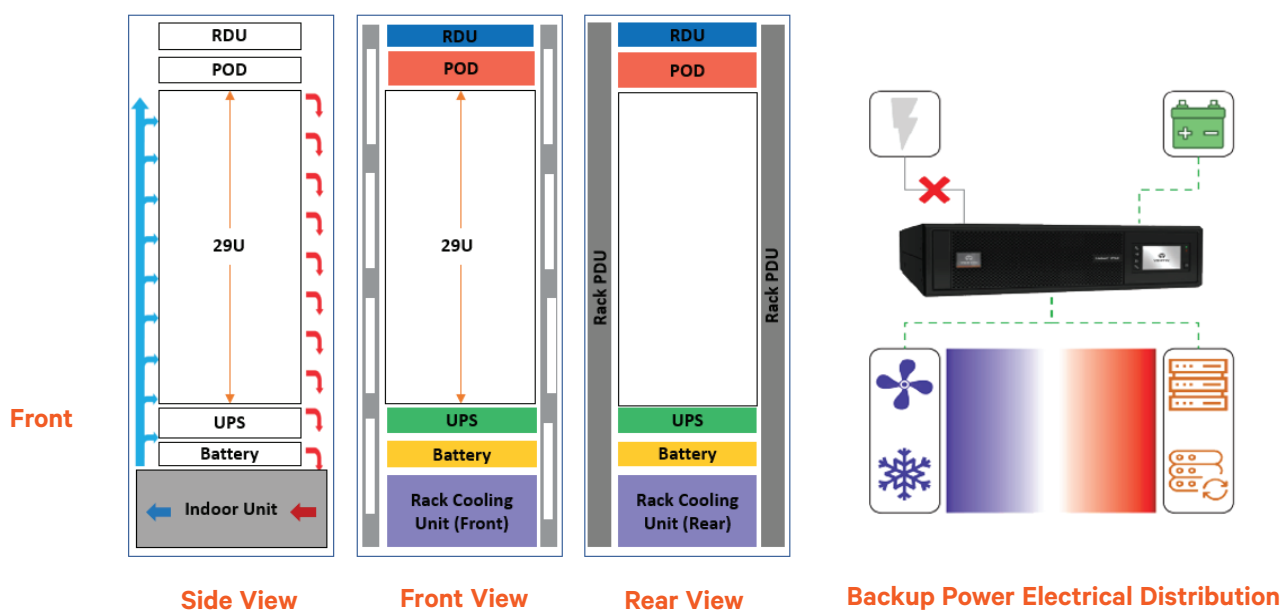
Continuous availability in turn rests on the power and cooling infrastructure that supports these systems and is comprised of the following:

- Power Quality
- Cooling
- Enclosure and Physical Infrastructure
- Monitoring and Management.

Capacity	: 3-20 kVA
Rack	: 1-4 Racks
Floor	: Primarily Non-raised
Certification	: CE Marking
Key Application	: Server Room and Small Datacenters



Cabinet Infrastructure Layout



The Next Generation Edge Solution for Digital Transformation

Vertiv™ SmartCabinet™ Premium

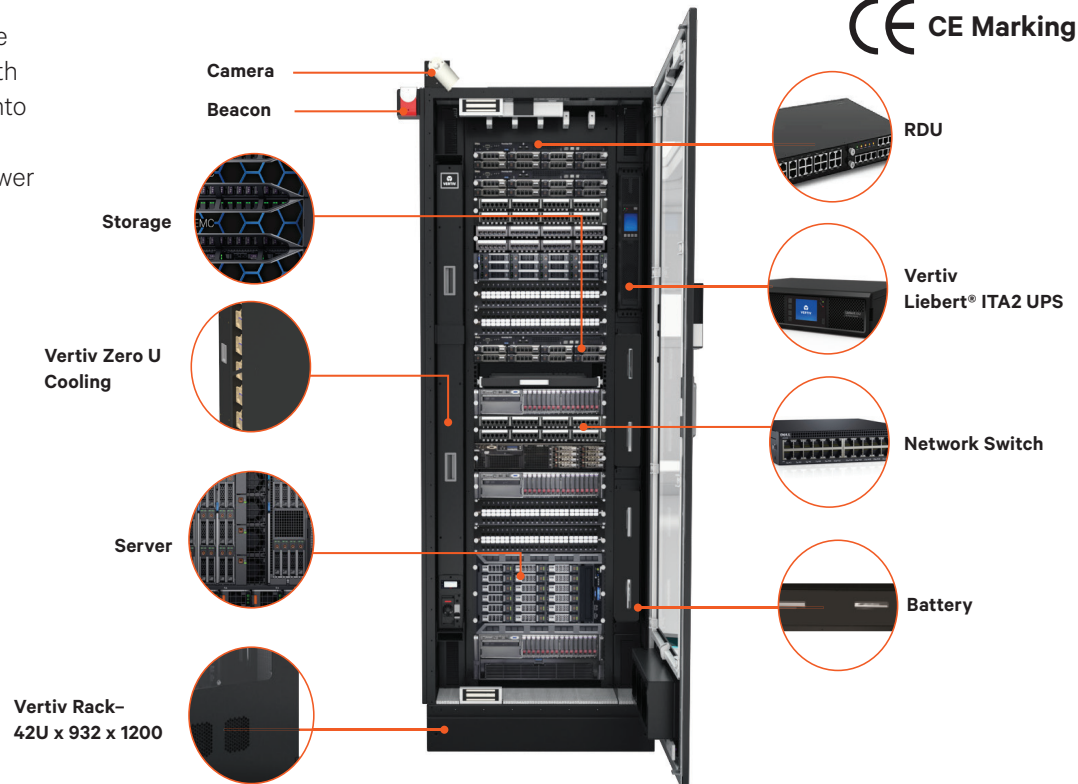
Optimize your existing or new IT environments

Vertiv™ SmartCabinet™ - Premium empowers Enterprise Class IT Infrastructure through the provision of integrated enclosure, power, cooling and service. The biggest advantage is its Zero U space for non-core IT assets. Critically it also allows the most vital element - namely 360° visibility of all system components.

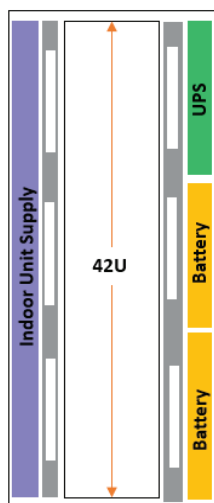
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- Power Quality
- Cooling
- Enclosure and Physical
- Infrastructure Monitoring and Management.

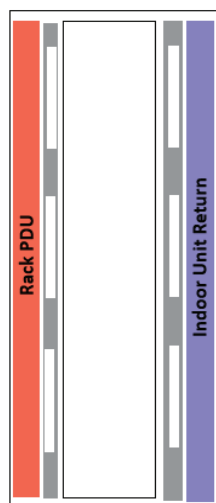
Capacity	: 6-20 kVA
Rack	: 1-4 Racks
Floor	: Primarily Non-raised
Certification	: CE Marking
Key Application	: Server Room and Small Datacenters



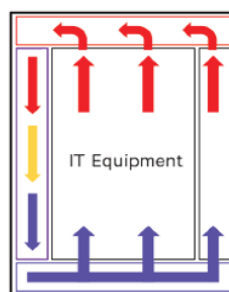
Cabinet Infrastructure Layout



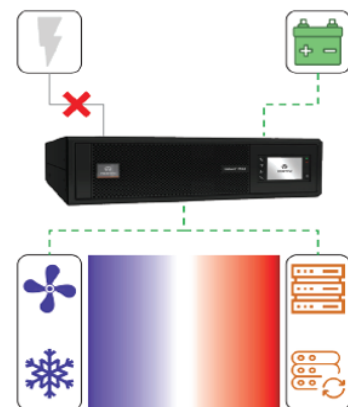
Front View



Rear View



Top View



Backup Power Electrical Distribution

Vertiv™ SmartRow™

Deploy a fully configured data center in just weeks

Vertiv™ SmartRow™ infrastructure from Vertiv is a simplified, standardized, and quickly deployable data center environment with significant CAPEX and OPEX savings over conventional designs. No other solution in the market provides such ease of deployment and integration.

Vertiv has demonstrated up to 10% CAPEX savings over conventional designs and 27% OPEX savings.

Here's how Vertiv™ SmartRow™ infrastructure does it:

- Significantly reduces the cost of room upgrades or modifications
- Optimizes use of space
- Reduces cooling power usage through contained airflow, and high-efficiency technologies
- Increases IT control and productivity
- Deploys in weeks, not months.

This complete data center infrastructure solution allows you to easily deploy and effectively manage an integrated IT infrastructure without being limited by building systems such as fire suppression and cooling.

Vertiv™ SmartRow™ is available in 2 to 12 rack configurations for up to 150 kVA IT capacity. The solution allows the flexibility of starting small and expanding over time.

Capacity	: 10-150 kVA
Rack	: 2-12 Racks
Floor	: Primarily Non-raised
Key Application	: Datacenter, Disaster recovery sites
Certification	: CE Marking



TECHNICAL SPECIFICATION

Components	Vertiv™ SmartCloset™	Vertiv™ SmartCabinet™	Vertiv™ SmartCabinet™ Premium	Vertiv™ SmartRow™
System Capacity (IT Capacity)	0.5 to 2 kVA	3-20 kVA	6-20 kVA	10-150 kVA
No. of Racks	1		1-4	2-12
Cooling Models (DX and CW)	DX Based: 500 W to 2000 kW	DX Based: 0.5 to 7 kW CW Based: 3.5 kW	DX Based: 7 kW	DX Based: 10 to 45 kW CW Based: 30 to 60 kW
Cooling Redundancy	Not Available		Available	
UPS Capacity	3 to 6 kVA	3 to 20 kVA	6 to 20 kVA	10 to 40 kVA and above
UPS Redundancy			Available	
Backup Time			Min 5 min to max 60 min	
U Space Available*	11-36	33-160	42-160	68-503
Monitoring	Optional		Yes	
Fire Suppression and Access control	Available (42U)		Available	
Accessories	N/A	KVM, LCD Console, Intelligent Rack PDU, Camera with local surveillance, LTS, and DCIM		
Rack PDU Type	Basic		All types (Basic, Metered and Monitored)	
Model Range	SCL-15-500 to SCL-42-2000-U6	SC-1-3 to SC-4-21 RC4-U20 2N	SCP-1-7 to SCP-4-21 RC4-U20 2N	SR-210 to SR-12-135 RC4

Product Dimensions

Width (mm)	800 (15U) 800 (24-42U)	800-3200	932-3632	2525-13025
Depth (mm)	800 (15U) 1000 (24-42U)	1100-1200	1200	1600-1800
Height (mm)	750 (15U) 1300 (24U) 2100 (42U)	2100 (42U) 2300 (47U)	2100 (42U)	2300 (42U) 2450 (Including Exhaust Fan)

*U space available is subjected to change as per configuration.

*Specifications are subjected to change without prior notice.

Features

The Liebert® RDU501 allows data center managers to perform the following operations through a secure web page:

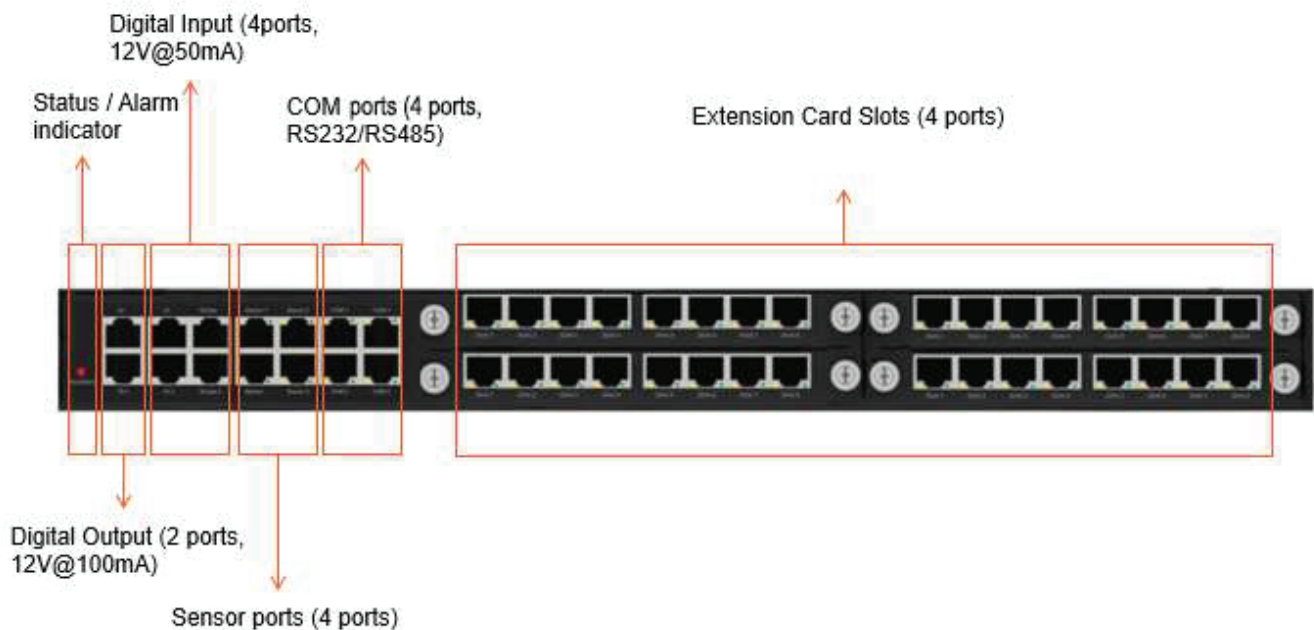
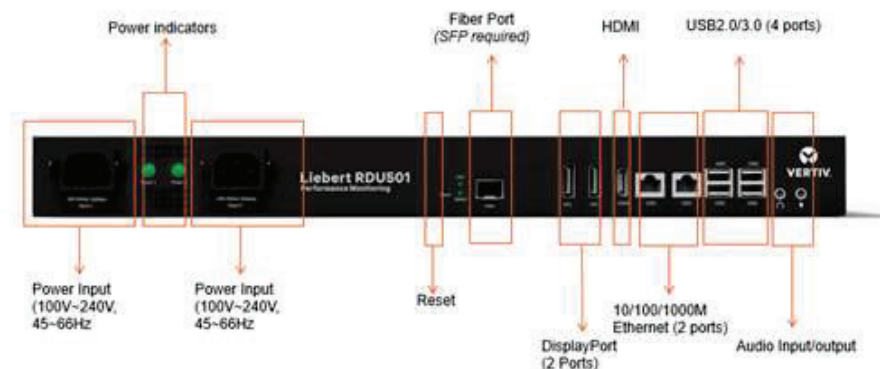
- Monitoring of the health and status of the equipment
- Access server Service Processor
- Out-of-band and Serial Console management
- Monitor the improved communication speed in transmitting control or commands to the equipment and parameter setting

3rd Party Communications:

- SNMP
- Modbus 485
- Dry contacts
- Analog Signals

The Liebert® RDU501 is an intelligent infrastructure management solution from Vertiv that allows data center administrators to monitor environmental conditions and infrastructure appliances such as UPS, precision cooling units, generator sets, etc.

The Liebert® RDU501 is equipped with a built-in web server, automated IT server shutdown and out-of-band management to offer the customer complete control over the datacenter infrastructure. RDU501 can also manage the server's Service Processor.



Intelligent safety & security

- Systems include intelligent locks, cameras, and optional surveillance.
- Enable remote door access via IP-based webpage, local access with proximity card.

Maximize existing space with a room neutral design

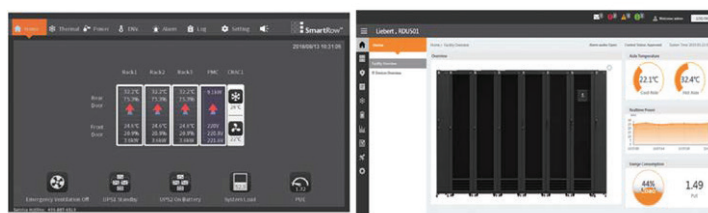
- In-Row power and cooling systems enable more compute capacity in a smaller footprint.
- System can be placed virtually anywhere – no raised floor is required. Management

Optional fire suppression system

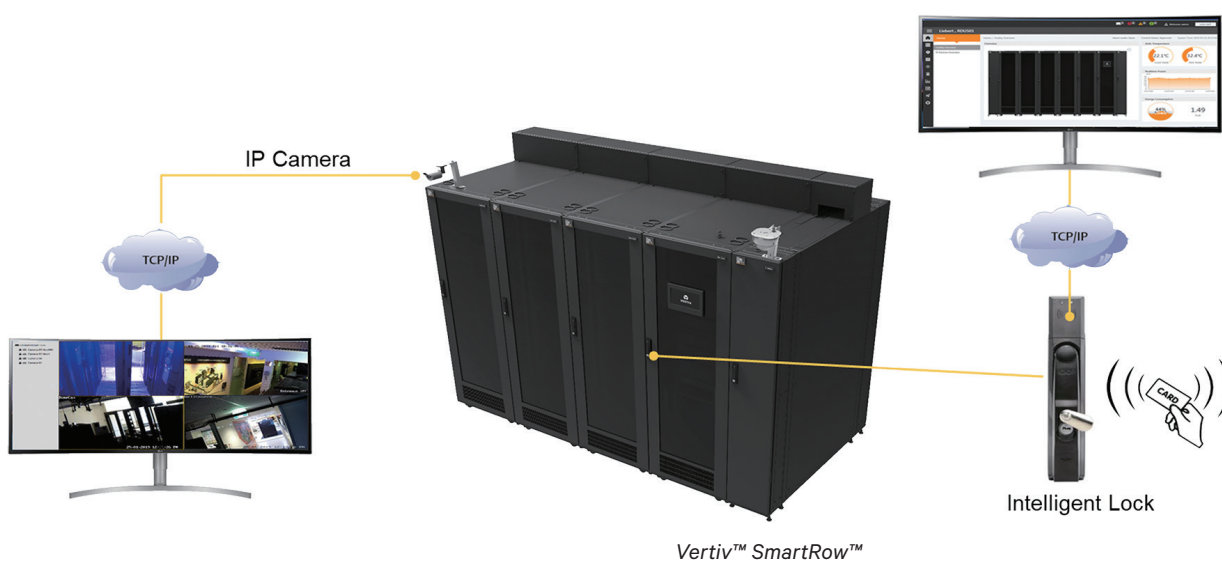
- By consolidating all your computer and air conditioning equipment within a single enclosure, you've created an ideal computing environment. This setup allows you to efficiently control the air conditioning within a smaller, more contained space, significantly reducing both cooling and fire suppression costs compared to managing an entire room.
- Inert gas systems are slightly more expensive than chemical agents, but they offer greater flexibility when it comes to maintaining room integrity. This can result in significant savings for the customer—potentially thousands of dollars—in avoiding the need for costly patching and sealing of the protected space. Additionally, inert gas is one of the most environmentally friendly options available on the market.



Management Appliance - RDU 501

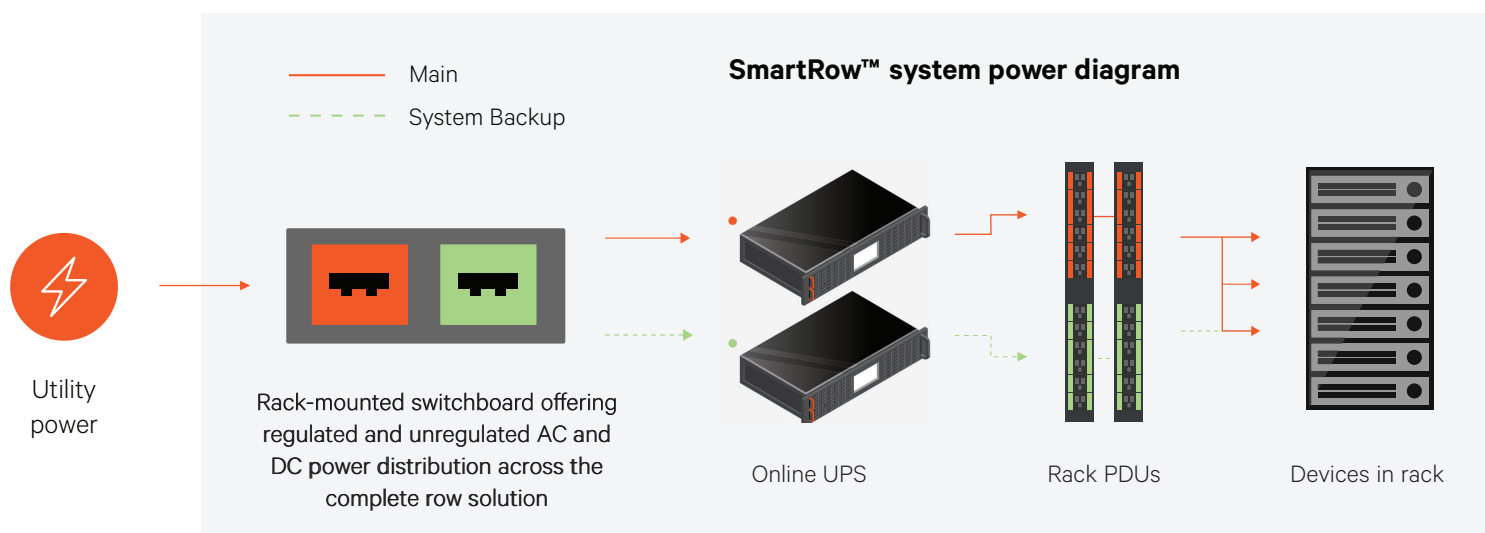


HMI & Web Interface



Complete power management

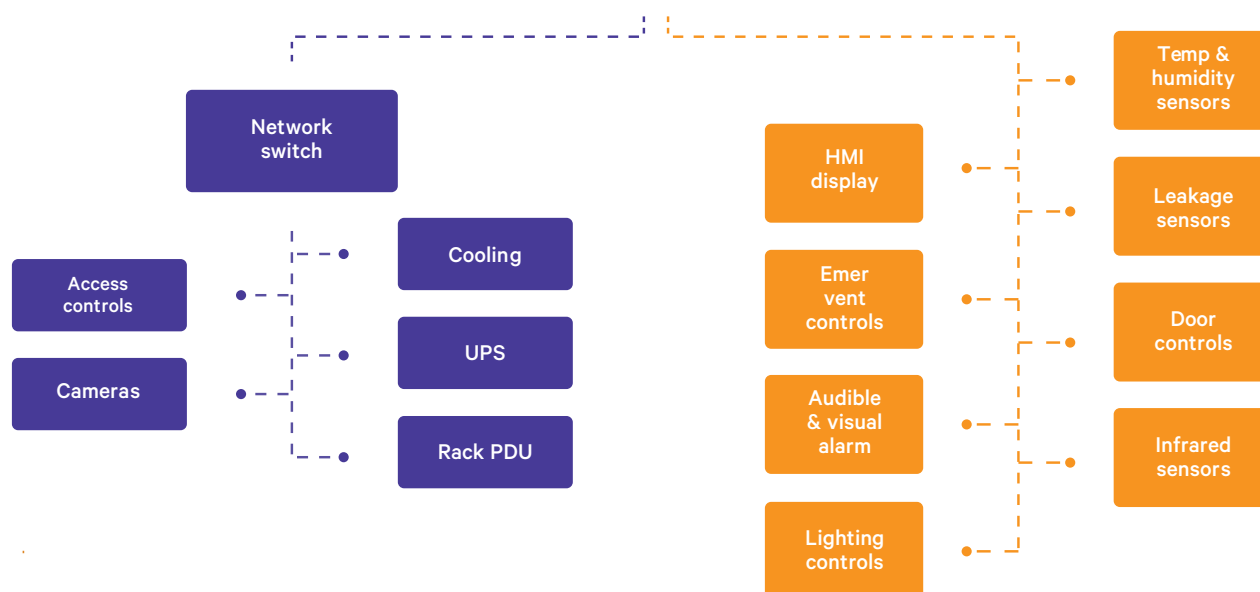
Each system includes pre-integrated power management complete with online double conversion UPS, N+1 power redundancy, and pre-integrated distribution to PDUs in each rack enclosure.



Integrated monitoring & remote management

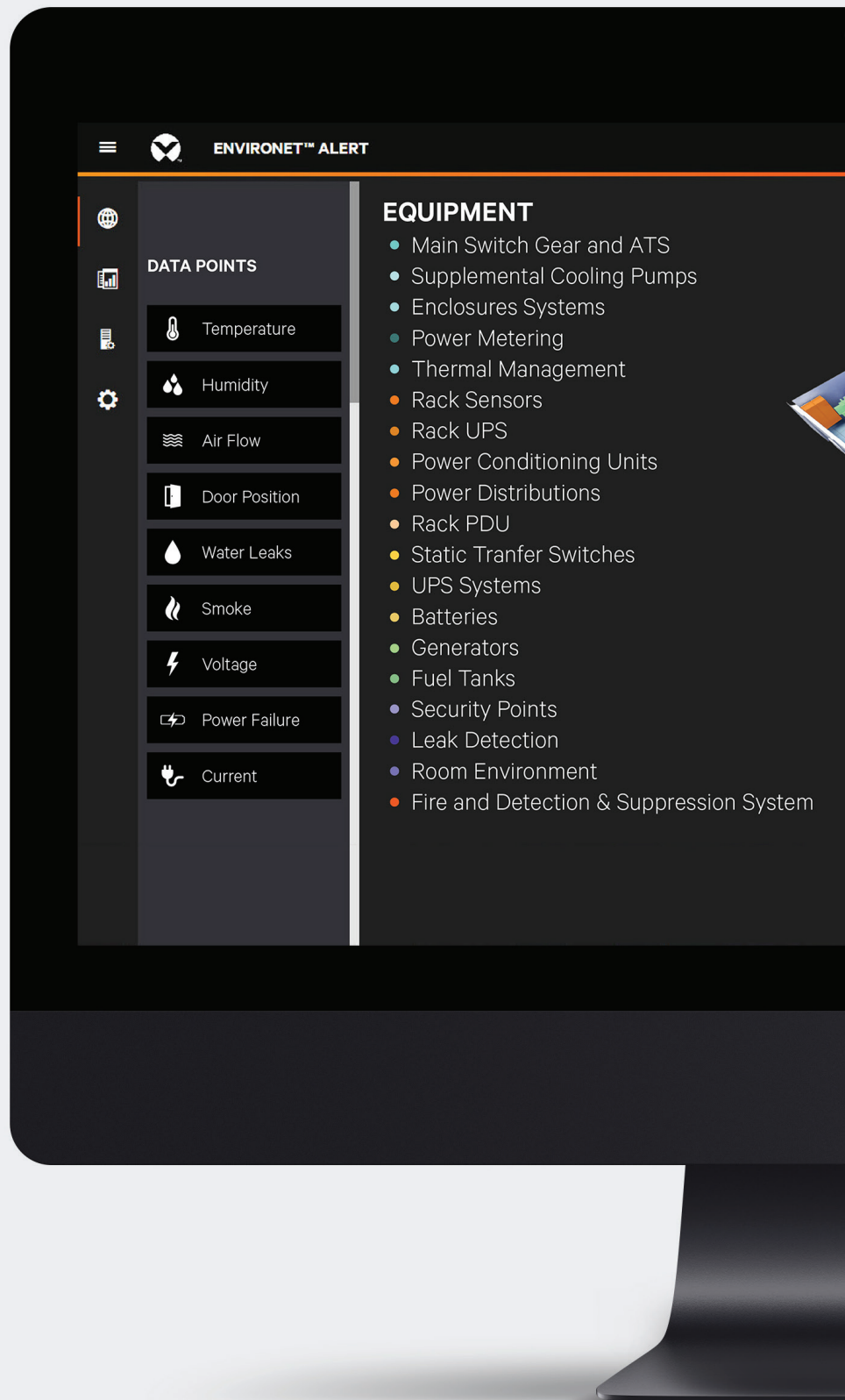
Infrastructure management gateway appliance

- RS485 serial communication
- TCP/IP network communication



Vertiv™ Environet™ Alert

Vendor-neutral data center infrastructure monitoring software provides centralized monitoring, alerting, and trending.



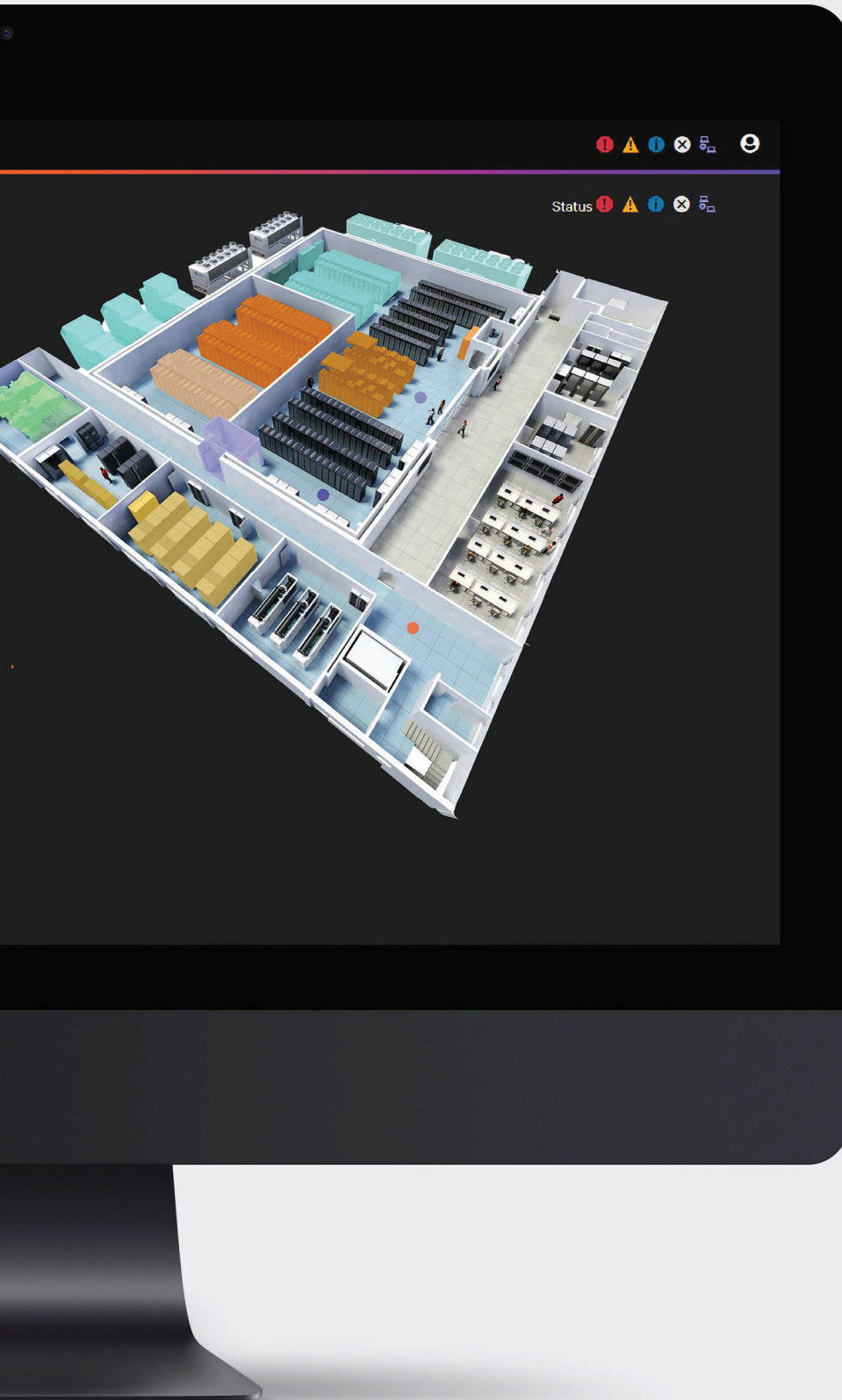
Vendor Neutral

3rd party device support at no additional charge.



Scalable Platform

Plans can scale to thousands of devices.



Monitoring



Alerting



Trending



Customized Dashboards

Choose your views to focus on the most important data to you.



Centralized Visibility

Connect your DCIM and BMS to get one complete picture of your operations.



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