VERTIV.™

Smart Solutions
Passive Cooling Series

Smart Mini / Smart Midi / Smart Max

Passive Cooling Integrated Solution for
IT and Edge Applications



IT AND EDGE INFRASTRUCTURE SOLUTIONS

Smart Solutions Passive Range

The Smart Solutions Passive range provides simple configuration and standardised design that allows installation within hours upon delivery to the site. All components of this micro data centre can be managed centrally from the main site via a remote monitoring system, eliminating the need to deploy on-site IT staff. The plug-and-play approach makes it easy to relocate and re-install the system to another location with minimal effort.

Smart Mini



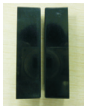
Smart Mini 12RU rack
600 x 800 x 12U



Liebert® GXT4 UPS 1.5kVA



Intelligent Monitoring
RDU-SIC G2 Card for UPS



Door Sensors



Temperature & Humidity Sensor

Smart Midi



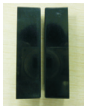
Smart Midi 24RU rack
600 x 1100 x 24U



Liebert® GXT4 UPS 3kVA



Intelligent Monitoring
RDU-SIC G2 Card for UPS



Door Sensors



Temperature & Humidity Sensor



Intelligent MPI Rack
PDU 16A 8x C13 sockets
(Horizontal)

Smart Max



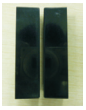
Smart Max 42RU rack
600 x 1100 x 42U



Liebert® GXT4
UPS 5kVA



RDUA-G2



Door Sensors



Temperature & Humidity Sensor



MPHB1241
32A 18x C13 sockets

Optional Upgrade

Enhance your power capability by upgrading to include battery cabinet for extra runtime



FEATURES

- Plug-and-play self-contained data centre in a box
- Easy installation and can be operational on day one
- Centralised monitoring system
- Scalable to meet additional capacity requirements
- Standardised design for ease of deployment
- Optimised and factory-tested fully integrated components

APPLICATIONS

- Small and medium enterprise offices
- Branch offices and retail stores
- Government branches
- Telecommunication sites
- Point of sale
- Healthcare laboratories
- Remote mining site

IT AND EDGE INFRASTRUCTURE SOLUTIONS

VERTIV.

SMART SOLUTIONS PASSIVE RANGE

SMART MINI 12RU

P/N:	Smart Mini
Rack	Glass Front door/Solid Rear Door- 600 x 800 x 12U, includes 2 fans
Dimensions (Width x Depth x Height)	600 x 800 x 12U
Weight	60 kg
Rack Units	12RU/ 10RU usable
Door Perforation	No perforation (ventilation slots top & bottom) – includes 2 fans for heat rejection
Battery Pack	No, internal only. (Optional additional cabinets available)
AC Power UPS	**GXT4 UPS**
Rating	1500VA/ 1350W
Input AC	230VAC nominal 40-70Hz
Input Receptacle	C14
Output AC	200/208/220/230/240VAC (user configurable); +-3%
Output Receptacle	C13 x 6
Dimensions	85 (2RU) x 430 x 497
Battery Cabinet (Optional)	85 (2RU) x 430 x 497
Intelligent Monitoring	**RDU-SIC G2 Card**
Graphical User Interface	Web browser IE8 and above, compatible with Chrome, Firefox
UPS Management	UPS shutdown, server |network shutdown
Alarm Management	Email notification, 2G/3G SMS, History alarm display & search
Data Management	Equipment data display, history display and search
Configuration Management	DNS support, SNMP V1/V2c/V3 support, RDU protocol support, user management, ITS remote services readiness
Power Distribution Unit	**None**

SMART MIDI 24RU

P/N:	Smart Midi
Rack	Perforated Front door/Solid Rear Door- 600 x 1100 x 24U, includes 4 fans
Dimensions (Width x Depth x Height)	600 x 1100 x 24U
Weight	90 kg
Rack Units	24RU/ 21RU usable
Door Perforation	Front door only – includes 4 fans for heat rejection
Useable Space	21
Battery Pack	No, internal only. (Optional additional cabinets available)
AC Power UPS	**GXT4 UPS**
Rating	3000VA/ 2700W
Input AC	230VAC nominal 40-70Hz
Input Receptacle	C20
Output AC	200/208/220/230/240VAC (user configurable); +-3%
Output Receptacle	C13 x 6 + C19 x 1
Dimensions	85 (2RU) x 430 x 602
Battery Cabinet (Optional)	85 (2RU) x 430 x 602
Intelligent Monitoring	**RDU-SIC G2 Card**
Graphical User Interface	Web browser IE8 and above, compatible with Chrome, Firefox
UPS Management	UPS shutdown, server network shutdown
Alarm Management	Email notification, 2G/3G SMS, History alarm display & search
Data Management	Equipment data display, history display and search
Configuration Management	DNS support, SNMP V1/V2c/ V3 support, RDU protocol support, user management, ITS remote services readiness
Power Distribution Unit	**Intelligent PDU**
Rate Current	16A
Power Outlet	8xC13
Type of Plug	1xC20
Breaker Rating	2x10A
Dimensions (WxDxH)	1RU; 440 x 260 x 43.5
Installation in rack	Horizontal
Power cord length	3 m

SMART MAX 42RU

P/N:	Smart Max
Rack	Perforated Front door/Solid Rear Door- 600 x 1100 x 42U, includes 6 fans
Dimensions (Width x Depth x Height)	600 X 1100 X 42U
Weight	136Kg
Rack Units	42RU
Door Perforation	Front door only – includes 6 fans for heat rejection
Useable Space	38RU Usable
Battery Pack	None, Internal (Optional additional cabinets available)
AC Power UPS	**GXT4 5kVA**
Rating	5000VA/ 4500W
Input AC	230VAC nominal 45-65Hz
Input Receptacle	Hard wired
Output AC	220/230/240VAC (user configurable); +-3%
Output Receptacle	None (Hard wired only)
UPS Dimensions	85 (2RU) x 435 x 625 – 17kg
Battery Cabinet Dimensions	
Intelligent Monitoring	**RDU-A G2**
Graphical User Interface	Web browser IE8 and above, compatible with Chrome, Firefox
UPS Management	UPS shutdown, server network shutdown
Alarm Management	Email notification, 2G/3G SMS, History alarm display & search
Data Management	Equipment data display, history display and search
Configuration Management	DNS support, SNMP V1/V2c/ V3 support, RDU protocol support, user management, ITS remote services readiness
Power Distribution Unit	**MPHB1242**
Rate Current	16A
Power Outlet	13 x C30, 6 x C19
Type of Plug	C20
Breaker Rating	2 x 17A
Dimensions (mm) (WxDxH)	56 x 1780 x 50
Installation in rack	0U Vertical Mounting
Power cord length	3M

IT AND EDGE INFRASTRUCTURE SOLUTIONS

SMART SOLUTIONS BATTERY RUN TIME



Smart Mini (1500VA/1350W)
0 Batt Cab Standard

Load (W)	% Load	No. Batt Cab	Runtime (minutes)
337.5	25%	0	42
		1	144
		2	250
		3	367.5
		4	392
675	50%	0	18
		1	72
		2	131
		3	160
		4	205
1012.5	75%	0	10
		1	42
		2	83
		3	121
		4	147
1350	100%	0	6
		1	31
		2	53
		3	83
		4	112



Smart Midi (3000VA/2700W)
0 Batt Cab Standard

Load (W)	% Load	No. Batt Cab	Runtime (minutes)
675	25%	0	31
		1	177
		2	177
		3	260
		4	365
1350	50%	0	12
		1	48
		2	97
		3	136
		4	157
2025	75%	0	6
		1	30
		2	56
		3	88
		4	118
2700	100%	0	3
		1	21
		2	41
		3	60
		4	81



Smart Max (6000VA/4800W)
1 Batt Cab Standard

Load (W)	% Load	No. Batt Cab	Runtime (minutes)
1200	25%	0	0
		1	52
		2	105
		3	180
		4	232
2400	50%	0	0
		1	16
		2	33
		3	60
		4	90
3600	75%	0	0
		1	7
		2	15
		3	31
		4	43
4800	100%	0	0
		1	4
		2	9
		3	20
		4	30

LIEBERT® RDU-A G2

Intelligent Monitoring Solution

FEATURES

The Liebert® RDU-A G2 allows data center managers to perform the following operations through a secure web page:

- Monitoring of the health and status of the equipment
- Monitoring of environmental conditions i.e. temperature and humidity, leak and smoke.
- Monitor the improved communication speed in transmitting control or commands to the equipment and parameter setting
- Records Data and Logs of historical information of alarms and notifications

3rd Party Communications:

- SNMP
- Modbus 485
- Dry contacts
- Analog Signals

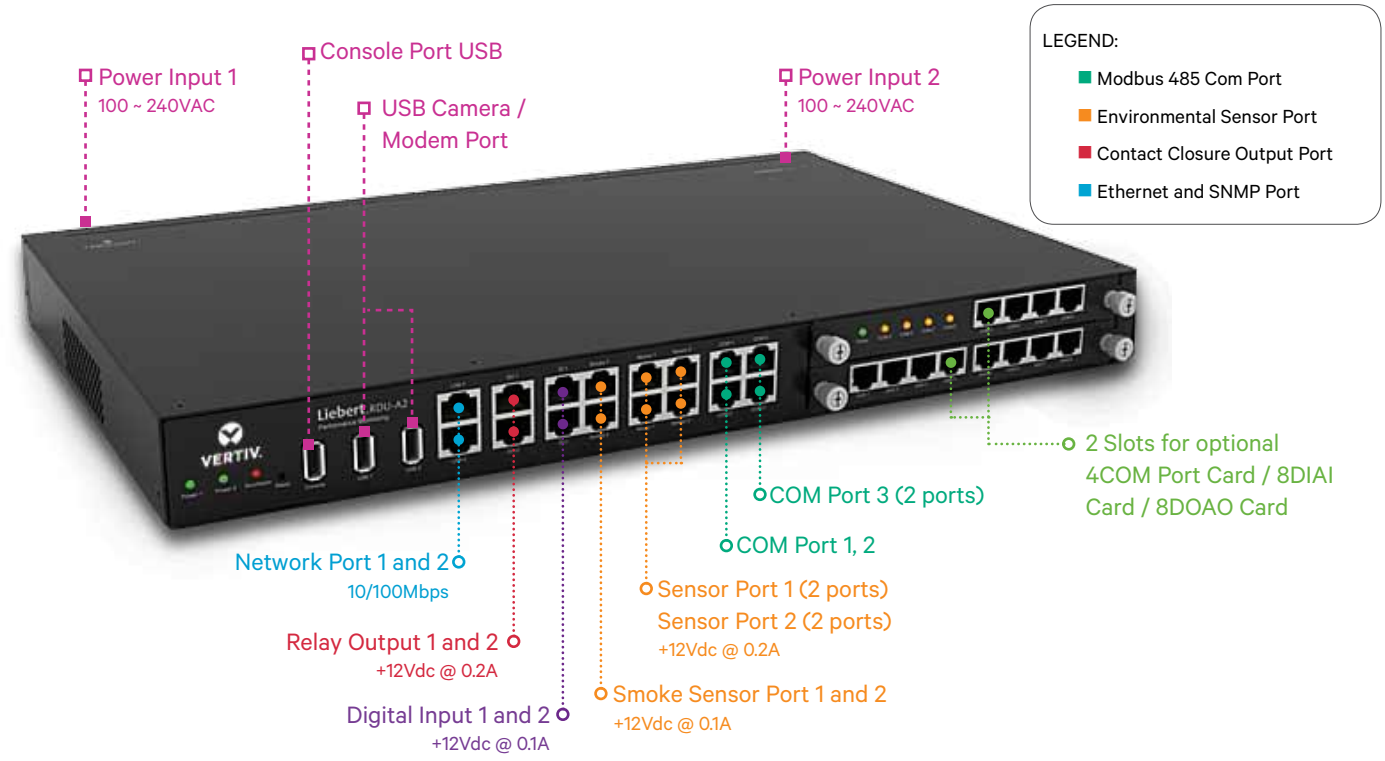
The Liebert® RDU-A G2 is an infrastructure management solution from Vertiv that allows data center administrators to manage environmental conditions i.e. temperature and humidity, leak, smoke, vibrations and digital inputs and outputs. It is also capable of monitoring infrastructure appliances such as UPS, precision cooling units, generator sets and etc. The Liebert® RDU-A G2 is equipped with a built-in web server, eliminating the need to perform a software installation.



FRONT



BACK



AVOCENT® ACS 800 SERIAL CONSOLE

A Compact Serial Console for Remote Edge Applications

BENEFITS

- Secure in-band and out-of-band network remote management
- Fast, automated configuration with Zero Touch Provisioning
- Access and troubleshoot remote locations using automatic network failover to cellular (and failback)
- Automatic pin-out detection for both Cyclades™ and Cisco pin-outs using straight through cables
- Compliance with data center access and security policies – customizable, multiple access levels
- Support for Rack PDUs from Vertiv, ServerTech, APC, Raritan and Eaton
- Support for Vertiv GXT4™ UPS systems
- IPv6 and IPv4 support for new network deployments
- Support for Avocent® DSView™ management software
- Strong dial-up and secure dial-back using optional built-in modem
- Console event logging and notification, including "last gasp" capture
- Regulatory compliance and easy troubleshooting – online and off-line data logging with time stamps
- 4 USB ports to support new IT equipment and external devices
- Environmental sensor port to connect temperature, humidity, differential pressure, leak, door pin sensors (up to 8 can be daisy chained)



Avocent® ACS 800 Serial Console for the Edge

The Avocent ACS 800 serial console system takes our renowned enterprise class technologies utilized in data centers around the world and packages the key features into an exciting compact and cost effective form factor. Providing serial access, environmental monitoring, IoT integration and remote networking capability to the Edge oriented market sectors of financial institutions, retail chains, education and others.

Regional IT managers and facility engineers will benefit with the ability to perform secure, remote management and out-of-band management of IT assets from anywhere in the world. Featuring a dual-core ARM processor architecture with expanded memory capabilities, RS232/RS485/RS422 serial access, USB, Gigabit Ethernet and environmental sensor access, the Yochto project based Linux operating system and available DSView™ management software, provides the Avocent ACS 800 optimal performance, security, reliability for a complete out-of-band management solution.

Applications

- Remote management of Edge locations
- Secure interface for IT console access of IT equipment
- Environmental monitoring
- Power and UPS monitoring and control





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Vertiv-Smart-Solutions-BR-ENG-ASIA-V2