



Liebert®

RDU-A G2  
Intelligent Monitoring Solution



Enabling Tomorrow's  
**CRITICAL EDGE  
INFRASTRUCTURE**



We helped some of the largest names in the industry bring new capacity online faster and at a lower cost when search and social media increased demand for storage and computing.



We were the first to introduce an integrated enclosure system to distributed networks.



Our portfolio spans power, thermal and infrastructure management products, software and solutions.

Protecting your critical technologies takes more than just great software and equipment. It takes a level of experience that only comes from years of finding solutions when the industry needed them most. We were the first to protect mainframes with precision cooling systems.



And now as challenges and demands grow, we continue to find better ways to help you strengthen your most vital applications. Formerly the Network Power business of Emerson, we've brought together the most trusted and experienced names in critical infrastructure.



Complemented by a network of nearly 250 service centers worldwide. It's a combination of experience and resources that allow us to better adapt to what's needed, anticipate what's next and continue to find solutions in ways other companies simply can't.



# 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

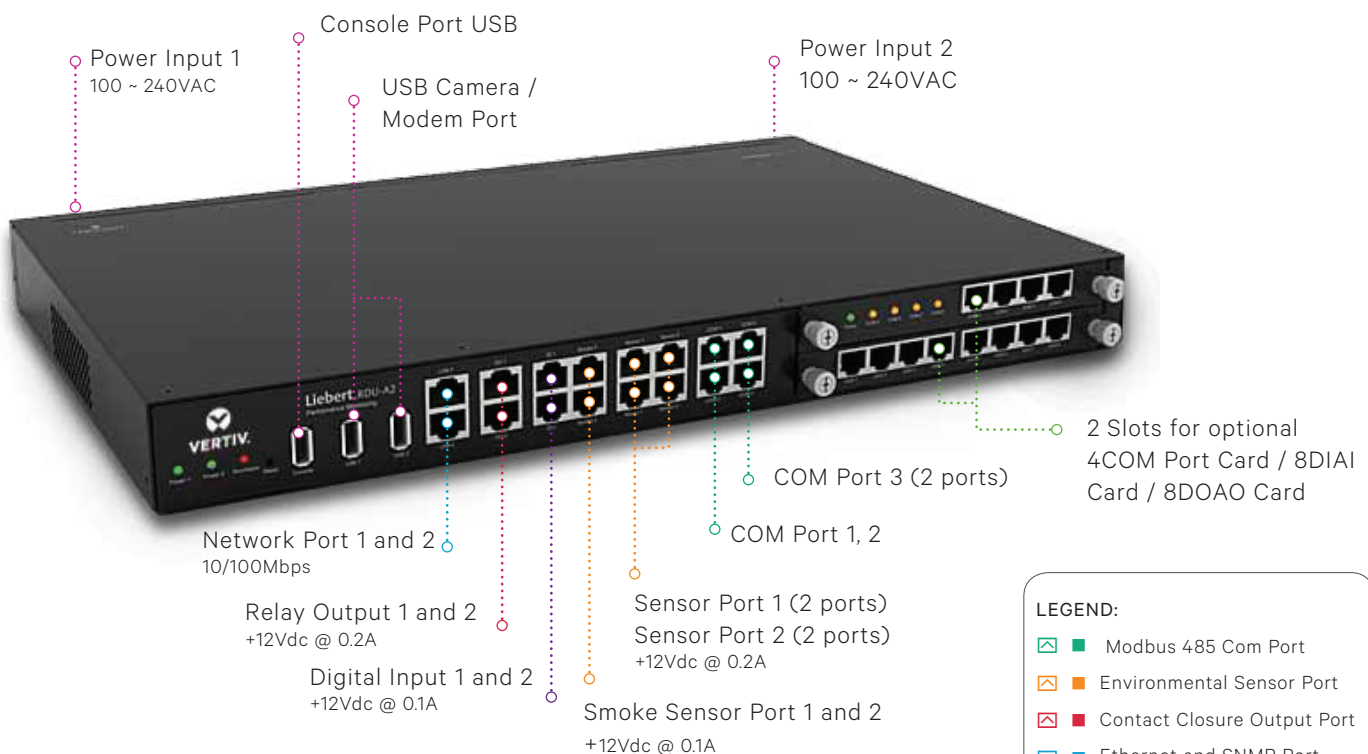
The Liebert® RDU-A G2 is an infrastructure management solution from Vertiv that allows data center administrators to manage environmental conditions i.e. temperature and humidity, leak, smoke, vibrations and digital inputs and outputs. It is also capable of monitoring infrastructure appliances such as 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



## INFRASTRUCTURE MANAGEMENT

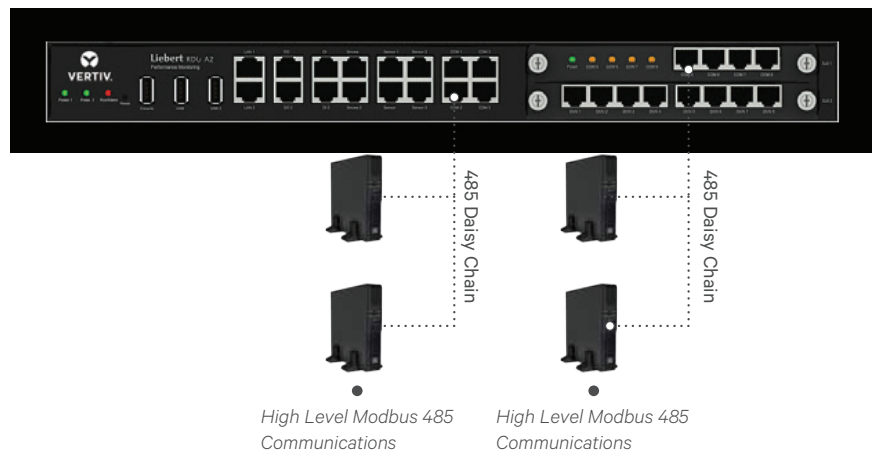
### 1. Modbus 485 and/or SNMP Communications

- i. Default of 16 devices in an RDU module (Can be all Modbus 485, or all SNMP, or a Mix).
- ii. Can be extended to have **additional 16 devices** more by purchasing licenses to make the total to a maximum of 32.
- iii. Each COM port can support a maximum of 4 daisy chained connection (need to be same device) **BUT maximum PER device will still be 32 devices.**

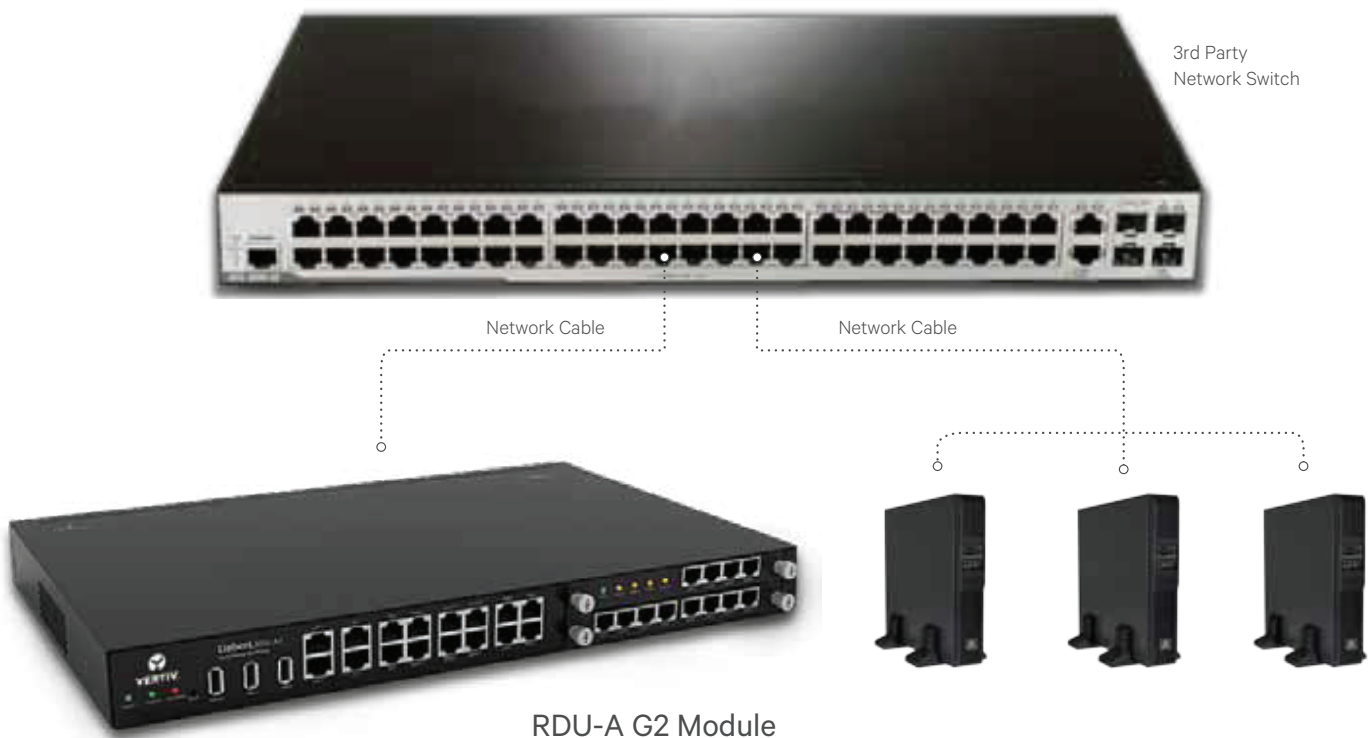
*Note: If communicating to a 3rd party device, will need to get SNMP MIB File for SNMP communication and Modbus Reference Library for Modbus communication to build driver. This will incur additional charges.*

The Liebert® RDU-A G2 serves as the communication gateway for the equipment and the Liebert® RDU-M solution. It intelligently collects and communicates data and commands, giving IT administrators a comprehensive view of what's happening at the equipment level of the facility

### Modbus 485 Communications



### SNMP Communications



## ENVIRONMENTAL

### 1. Temp and Temp/Hum Sensor

- i. By default (without the optional THUB) it can support up to 32 sensors
- ii. When THUB is connected, total maximum will be 80 sensors
- iii. Sensor Port 1 can only support Temp and/or Temp/Humid Sensor (max 16)
- iv. Sensor port 2 supports 16 knots. When 2 x 4DIF sensors are connected with all of the ports used, this will be considered as 10 knots (2x4DIF + 8 Sensors), the remaining 6 knots can be used for T /TH sensors.

*Note: Each knot is considered to be 1 Sensor EXCEPT for the Smoke and Infrared Sensors which is considered to be 4 knots each.*

### 2. Digital Input Sensor (Door Sensor, Water Leak Sensor, Smoke Sensor, Motion Sensor, Vibration Sensor)

- i. By default (without the optional 8DIAI Extension card) it can support up to 12 (8 of the 12 will be coming from 4DI sensor connected to the Sensor Port).
- ii. When 2 pieces of 8DIAI cards are connected, maximum of 28 Digital Input Sensors

### 3. Analog Input Sensor

- i. Maximum of 16 inputs using 2 pieces of 8DIAI optional card

### 4. Analog Output

- i. Maximum of 16 outputs using 2 pieces of 8DOAO card

### 5. Digital Output

- i. Maximum of 18 (2 default digital output + 16 from 2 pieces of 8DOAO card)

*Note: When using Smoke and Infrared Sensors, it is considered to be 4 knots each or an equivalent of 4 sensors each.*



Standard RJ45 Straight through patch cable



Temperature Sensor



Temperature Sensor



4DI Modular Extension (For sensor port 2)



Smoke



Infrared



Leak



Door

## ENVIRONMENTAL: RDU-THUB

### 1. 16 Sensor port extension hub

- i. Each sensor can have up to a maximum of 3 sensors each.
- ii. Each of the sensor ports can only accept Temperature and/or Temperature/Humidity sensors (This cannot accept DI sensors or any 4DI/4DIF)
- iii. Maximum of 48 sensors in 1 RDU-THUB. Total maximum when connected to the RDU-A G2 will be 80 sensors (32 on RDU-A G2 + 48 on RDU-THUB)
- iv. 1 RDU-A G2 can only support 1 RDU-THUB

### RDU-A Generation 2

Can connect to any RS485 port of RDU-A G2



Standard RJ45 Straight through patch cable

### RDU-THUB



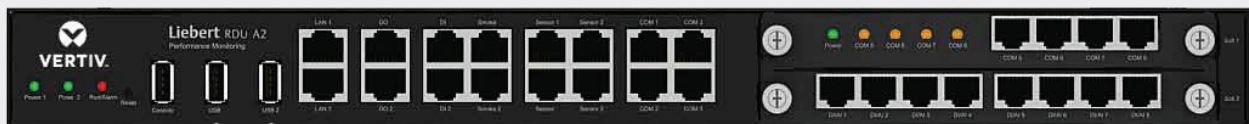
Standard RJ45 Straight through patch cable



## VIDEO SURVEILLANCE

### 1. 2 Ports for USB Camera

*Note: Not for CCTV application*



USB Camera



USB Camera

## Mechanical Specifications

External model	Measurement	Value	Error
RDU-A G2	Height	43mm	<±0.5 mm
	Width	440mm	<±1 mm
	Depth	311mm	<±1 mm
	Weight	<8kg	
IRM-4COM	Height	20mm	<±0.5 mm
IRM-8DIAI	Width	158mm	<±1 mm
IRM-8DOAO	Depth	199mm	<±1 mm
	Weight	<1kg	

## Environment Conditions

Item	Requirement
Application location	Usually in data center or computer room, with air conditioner
Working temperature	-10°C ~ +60°C
Relative humidity	5%RH ~ 95%RH, no condensing
Working environment	Dust: compliant with the indoor requirements of GR-63. No corrosive gas, flammable gas, oily mist, steam, water drops or salt
Air pressure	70kpa ~ 106kpa
Storage temperature	-40°C ~ +70°C
Cooling	Natural cooling
Power distribution network	TT/TN
Protection level	IP20

## Performance Specifications

Ports	Cable standard	Distance (unit: m)
SENSOR1	Standard category 4 twisted-pair cable	≤ 100
SENSOR2	Standard category 4 twisted-pair cable	≤ 100
DI ports	Standard category 4 twisted-pair cable	≤ 100
DO ports	Standard category 4 twisted-pair cable	≤ 100
COM ports	Standard category 4 twisted-pair cable	≤ 100

**Product Certificate:** RDU-A G2 satisfies CE allege.



[Vertiv.com/en-in](https://www.vertiv.com/en-in) | E-mail : [marketing.india@vertivco.com](mailto:marketing.india@vertivco.com) | Toll free : 1-800-2096070

**Vertiv Energy Private Limited** | Plot C-20, Rd No.19, Wagle Ind Estate, Thane (W), 400604. India

© 2018 Vertiv Co. All rights reserved.