# Vertiv<sup>™</sup> Liebert<sup>®</sup> IntelliSlot<sup>™</sup> RDU-SIC G2 Card

**Quick Installation Guide** 

## **Hardware Installation**

## **List of Components**

See Figure 1 to Figure 4 for hardware components that are required for connection.

Figure 1 - RDU-SIC G2 Card



Figure 2 - Communication Cable



Figure 3 - RDU-SIC G2 Card Mounting Structure



## Figure 4 - Intellislot housing



Figure 5 - Installing RDU-SIC G2 Card

## Installing the RDU-SIC G2 Card

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- Insert the RDU-SIC G2 Card into the Intellislot housing.
- Install Intellislot housing into the RDU-SIC G2 Card mounting structure with two ST4.2X9.5 self-tapping screws. See Figure 5.
- Connect the communication cable to the Intellislot housing connection port. See Figure 6.



No.	Name	Qty.
1	Self-tapping Screw ST4.2x9.5	2
2	RDU-SIC G2 Card	1
3	Intellislot housing	1
4	RDU-SIC G2 Card Mounting Structure	1
5	Communication Cable	1

Figure 6 - Cable Connected to the Full Assembly



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# Connecting RDU-SIC G2 Card cable to the VRC unit

- Insert the RJ45 connector of the cable into the RS485-1 port of VRC1 unit, if the unit is VRC1 unit. See Figure 7.
- Insert the RJ45 connector of the cable into the RS485-1 port of VRC2 unit, if the unit is VRC2 unit. See Figure 8.

## Setting up the RDU-SIC G2 Card

## **Pre-Requisites**

- RDU-SIC G2 Card is inserted in the Intellislot housing and has power (VRC unit should be powered on).
- 2. A working internet connection (via Ethernet) is available.
- 3. An Ethernet cable.

## **Saving the IP Address**

- 1. Connect your laptop to the ethernet port that you intend to connect RDU-SIC G2 Card
- 2. To open Windows Command prompt
  - Start > type "cmd".
- 3. Type ipconfig.
- 4. Note down the IP Address information of the ethernet adapter. See Figure 9.

## Setting Static IP Address on the Laptop for RDU-SIC G2 Card Communication

Change the Static IP of your laptop to 192.168.0.20 (this will allow laptop to talk to RDU-SIC G2 Card directly through an ethernet cable).

Figure 7 Connecting RDU-SIC G2 Card Cable to the VRC1 Unit



Figure 8 Connecting RDU-SIC G2 Card Cable to the VRC2 Unit



Figure 9 IP-Address Information Screen

•	
Ethernet adapter Ethernet 4:	
Connection-specific DNS Suffix . : int.vertivco.com IPv4 Address : 126.1.70.86 Subnet Mask : 255.255.255.0 Default Gateway : 126.1.70.1	

1. On Windows 10: Control Panel > Network and Internet > View Network status and tasks > Change adapter settings > Double click the above Ethernet port. See Figure 9

- 2. Click Properties. See Figure 10.
- 3. Select Internet Protocol Version 4 (TCP/IPv4) and Click Properties. See Figure 11.
- 4. Check the radio button "Use the following IP address" and enter the information. See Figure 12. Click "OK" > "OK" > Close.

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#### Figure 10 Ethernet 4 Status Screen

neral		
Connection		
IPv4 Connecti	vity:	Internet
IPv6 Connecti	vity:	No network access
Media State:		Enabled
Duration:		04:03:56
Speed:		100.0 Mbps
Details		
Details		
Details	Sent —	Received
Details activity Bytes	Sent —	— Received





#### Figure 12 Internet Protocol Version 4 (TCP/IPv4 Properties Screen

General		
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	omatically if your network supports to ask your network administrator	
Obtain an IP address automatic	cally	
Use the following IP address:		
IP address:	192.168.0.20	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:	192.168.0.1	
Obtain DNS server address aut	omatically	
Use the following DNS server a	ddresses:	
Preferred DNS server:	<b>a a (a)</b>	
Alternate DNS server:		
Validate settings upon exit	Advanced	

#### Figure 13 Connecting Laptop to the RDU-SIC G2 card



# Connecting to the RDU-SIC G2 card

- Remove the ethernet cable or WiFi from the laptop to disconnect the internet. See Figure 13.
- 2. Connect the laptop directly to RDU-SIC G2 card using an ethernet cable. See Figure 13.
- 3. Open Windows Command prompt and type as ping 192.168.0.252.
- This is the default IP Address of the RDU-SIC G2 Card. If you receive data back from the card, then the laptop and RDU-SIC G2 Card can communicate.

- 4. Type 192.168.0.252 in the address bar of the web browser (For example: Chrome).
- 5. This will take you to the login page of the RDU-SIC G2 card. Enter the credentials as shown below. See Figure 14.
  - User Name: admin
  - Password: Vertiv

#### Figure 14 Login Screen

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	User Name: Password: Login Cancel	Forget password
P	Change Theme	ー 中文   English



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## Check VRC Device Type installation on the RDU-SIC G2 Card

- Go to Device Options > Device Management (on left navigation panel), See Figure 15.
- Click tab Install/Uninstall Device Type.
- Check if the "Device Type Installed" list contains ENP\_AC\_ VRC[COM].
- If yes, then skip the next step (add the VRC unit to be monitored).

# Add the VRC unit to be monitored

- 1. Click tab Add/Modify/Delete Device and enter the required information. See Figure 16.
- 2. Click Add > Save Configuration.

**NOTE:** The newly added unit will be visible in the left navigation menu under "Cooling". Click on the unit name to monitor real time data from the unit.

## Update time

To update time zone:

 Click "RDU-SIC G2 Time" on the bottom left corner of the page. See Figure 15.



 Select applicable time zone and update other settings as necessary and click "Set". See Figure 17.

### Figure 15 Device Type Screen

RDU-SIC G2	Control Status: Approved		<u>A</u> 2	5	0
Data Center +	Add/Modify/Delete Device	Install/Uninstall Device Type			
+ Environmental	Select Installation Package:	[	浏览 (Show Help)		Install
- ENV	Uninstall Device Type				
· Env	Index	Device Type Installed			
+ Cooling	1	ENP_PDU_STS[COM]			
UPS Shutdown +	2	ENP_MPDU_MPS[COM]			
Alarm Mgmt. +	3	ENP_PDU_SPM_M90[COM]			
Datal History	4	ENP_AC_DME3000[COM]			
Datadmistory	5	ENP_AC_ESR_CR025RC[COM]			
Device Options -	6	ENP_AC_CRV_DX[COM]			
<ul> <li>Device Management</li> </ul>	7	ENP_AC_PACC[COM]			
Signal Setting	8	ENP_AC_PEX4_AP[COM]			
<ul> <li>Batch Configuration</li> </ul>	9	ENP_AC_PEX4[COM]			
System Options +	10	ENP_AC_VRC[COM]			
Help +	11	ENP_AC_CRV4[COM]			
	12	ENP_AC_CRV_CW[COM]			

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### Figure 16 Adding the VRC Unit Screen

Idex	Device Typ	e	Device Name	Location	Address	Module_ID	Port	Parameter
	ENP_ENV_	SIC[SENSOR]	ENV	RACK	1	0	COM2	9600,n,8,1
	ENP_AC_P	EX4_AP[COM]	AC_PEX4_1	RACK	1	0	RS-485	9600,n,8,1
	ENP_AC_M	INI_TBLOCK[COM]	AC_MINI_1	RACK	1	0	COM1	9600,n,8,1
)	ENP_AC_V	RC[COM]	AC_VRC_1	RACK	2	0	COM1	9600,n,8,1
							E	nter a name of
Indifu							y y	our choice to
Device	Type:	ENP_AC_VRC[C0	Im (MC	Device Name:	VRC100_DBRN_	ENG	id	entify the unit
Port		RS-485	~	Device Address:	1	Module_ID: 0		
ocation	n:	RACK	~	Parameter:	9600,n,8,1			
					Add		Modify	Delete

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# Download History Data (See Figure 18)

- 1. Go to History Data on left navigation menu (Figure 15 Device Type Screen)
- 2. Click "History Report" tab
- 3. Select the device from "Device Name" dropdown.
- 4. Enter start and end time to specify time period of the data
- 5. Click *Query* and wait for the data to load.
- 6. Click *Download*, to download the history data.

## Setting up the IP Address of RDU-SIC G2 card (See Figure 19)

- 1. Click System Options on the left navigation menu. See Figure 15.
- 2. Then Click Network Setting.
- 3. Under Network Setting tab, check *Static* for IP Setting.
- Enter the information (IP, Mask and Default Gateway) found in "Saving the IP address". See Figure 9.
- 5. Click Save, to save the IP Address. This will change the IP Address of the RDU-SIC G2 card to the one entered.

**NOTE:** Remove the Ethernet cable from the laptop and connect it to the network. Now the card could be accessed from anywhere within the network. See Figure 18.

- Change back the IPv4 setting of the laptop to "Obtain an IP Address automatically"
- You can then connect to the RDU-SIC G2 card through a browser by typing the assigned IP Address in the web browser (the laptop should be connected to the network).

### Figure 17 Time Zone Screen

Fime zone:	-05:00 (Eastern Time)
Get date/time automatically from the below time servers:	
Primary Server.	0.0.0
Secondary Server.	0.0.0.0
nterval to Calibrate System Time:	1 Hour
Calibrating Protocol	TP(RFC868)
ast Calibrating Date/Time	
Vext Calibrating Date/Time	-
Specify Date/Time Local Host Time	
Date:	2019/01/18
lime:	09:10:50

### Figure 18 History Report Screen

History Report History Data Query	Historical Curve Curve Setting Please download within 5 minutes. Number of data rev	cords displayed can not exceed 500 on th	is page, however you can get all the data records by do	vnloading.
Device Name:	VRC100_DBRN_ENG	Log Type:	History Data	
Start Date/Time:	2019-01-17 00:00:00	End Date/Time:	2019-01-17 23:59:59	
	•		·	Ouery Download

### Figure 19 Network Setting Screen

P Setting (MAC: 00:09:F5:	1E:D5:97)		
O Auto			
<ul> <li>Static</li> </ul>	106 1 150 00	Update below values with	
IP.	120.1.150.20 DEE DEE DEE D	the ones for your network	
Default Gateway:	126.1.150.1		
DNS addr			
Auto			
<ul> <li>Static</li> </ul>			
DNS1:		]	
DNS2:		]	
			-





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