

1. Gateway & Bridge Series
2. Dimming Series
3. Relay Series
4. Climate Series

| 5. GUEST ROOM SERIES

5.3 Guest Room Module 9CH, D/R16A/R05A **GDR6R5C**

6. Human Interface Series
7. I/O Series
8. Power Supply Series
9. Multiroom Audio Series
10. Motorization Series



I DESCRIPTION

The Green IoT CONTROLS (Green IoT) GDR6R5C Guest Room Module 9CH, D/R16A/R05A is a GreenBUS 9 channels output device designed for multipurpose applications for areas such as office buildings, hotels, shopping malls and other spaces. Known commonly as GRMS module.

The module is provided with a status LED to indicate the load status and can be used to identify the module during system configuration. For ease of installation the module is DIN rail mounted.

The module comes equipped with a tri-state switch that allows individual local control of connected circuits/devices and for installation and testing. Each channel can be locally “locked” to disable control, making it safer for installation and maintenance than conventional automation systems.

It provides 2 channels 1.2A dimmer (universal dimmer), 2 channels 16A relay, 4 channels 5A relay and 1 channel climate controller. Each channel is equipped with a built-in current sensor for individual energy monitoring and reporting.

The climate controller can control single stage machines with two operation modes (Heating and Cooling) and three fan speed operation modes (Low, Medium and High). The module can handle FCU, AHU and Digital VAV systems. The controller is equipped with the option to associate with an external current sensor for energy monitoring and reporting of Cooling, Heating and Fan individually.

The module is also coming with a dip switch that allows the Green IoT wired module to be Blue IoT CONTROLS (Blue IoT) ready enabling it to wirelessly join our meshed network system using the Green/Blue Bridge.

| DEVICE FEATURES

Provides 2 x 1.2A channels of dimming output along with 2 x 16A channels relay, 4 x 5A channels relay and 1 channel climate controller (5 Channels output via 1 changeover relay and 4 x 10A relays).

Isolated mains input per channel with electrical phase independence per channel and for dimmer per sideboard (unit).

Supports conventional, electronic transformer and Liner dimmable LED and CFL bulb.

Algorithms ensure that lights do not flicker due to signal injections (noise) on the mains.

Supports AC/DC climate control systems.

Fan speed options: Low, Medium High and Auto.

Mode options: Heating, Cooling, Fan and Auto.

Control single stage climate control systems.

Power state, Modes and Fan speeds protection delay.

Incorporates a customizable (in seconds) Soft On and Soft Off feature.

Tri-state switch that allows individual local control. Channels can be locally "locked" to disable control.

Simple, sliding module connection ensures error-free GreenBUS installation.

Module's I/O can easily be swapped out via plug-in system for fast and cost-effective maintenance.

No earth is required.

Incorporates current detection, overload, overheat and short circuit protection (replaceable fuse).

LED indicates load status of each channel.

Remembers last known state at the hour in the event of power loss.

Incorporates Zone and Category grouping.

Built-in Scene, Sequence and Timer engines supporting up to 32 Scenes, 8 Sequences and 16 Timers.

Built-in Event engine supporting up to 32 Events with up to 8 triggers, 8 conditions and 128 actions (not exceeding 512 actions per module).

32 Flags can be defined to be used as triggers and/or conditions for Event engine.

Programmable onsite or offsite via Smart IoT CONTROLS Configuration Client Software.

Programmed variables are stored in nonvolatile memory and are retained in case of loss of mains or GreenBUS power.

Digital input for fire alarm integration.

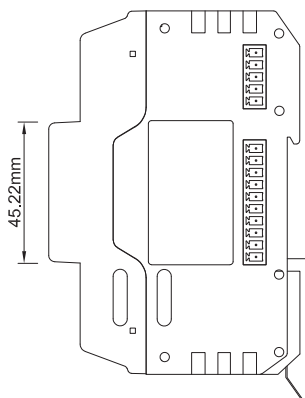
Supports local and online upgrade.

CE & RoHs certified.

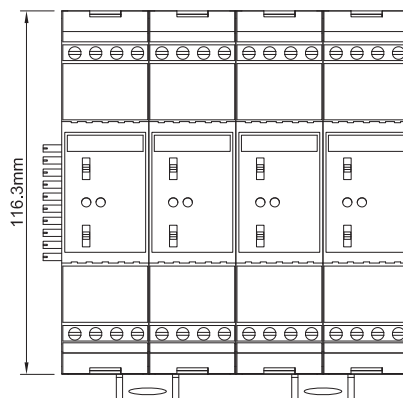
I TECHNICAL SPECIFICATIONS

Operation Voltage:	DC 24V ±10% (BUS Powered)
Power Consumption:	120mA ±10%
Channel Input:	10 Channels, 100-240 VAC ±10%/30 VDC
Channel Output:	2 Channels 1.2A, 2 Channels 16A, 4 Channels 5A, 4 Channels 10A, 1 Channel NC 3A/NO 5A
Working Temperature:	0°C ~ +55°C
Storage Temperature:	-10°C ~ +55°C
Working Humidity:	20% ~ 90%
Storage Humidity:	10% ~ 90%
Installation:	35mm DIN rail mounting, EN50022
Module Dimension:	111.66x116.3x80.3mm (WxHxD)
Packing Dimension:	124x125x90mm (WxHxD)
Net Weight:	542g
Gross Weight:	607g
Operation and Display:	Red and Green LED, for displaying the physical status
CE Mark:	In accordance with EMC and LVD
Protection Class:	IP20, EN60 529

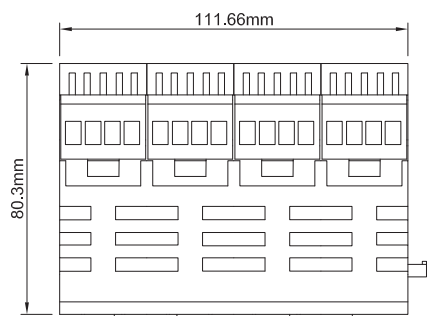
I DIMENSIONS



Side View



Front View



Top View

I INSTALLATION

Step 1:

Turn the module (see Figure 1) and mount it on the 35mm DIN rail. Hook the module, top first, onto the DIN rail then gently press the bottom of the module onto the rail and ensure that it latches on firmly (see Figure 2).

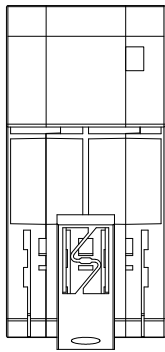


Figure 1

Step 2:

Join the modules together by sliding them together along the DIN rail ensuring that the GreenBUS plug (see Figure 2) fully locates into the next modules GreenBUS socket (see Figure 3).

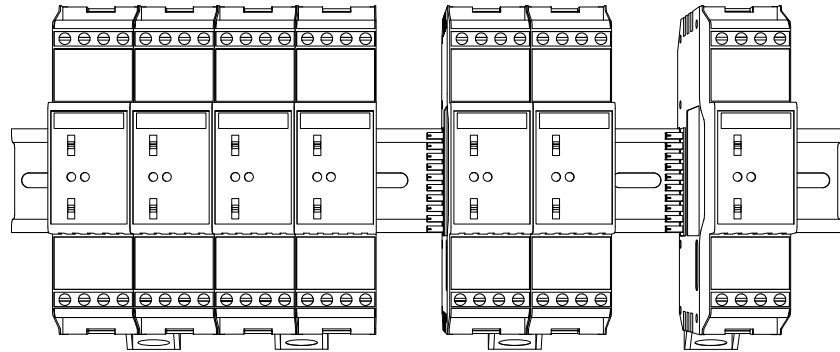


Figure 2

Step 3:

Wire remaining terminals in accordance with wiring diagram (see Figure 4).

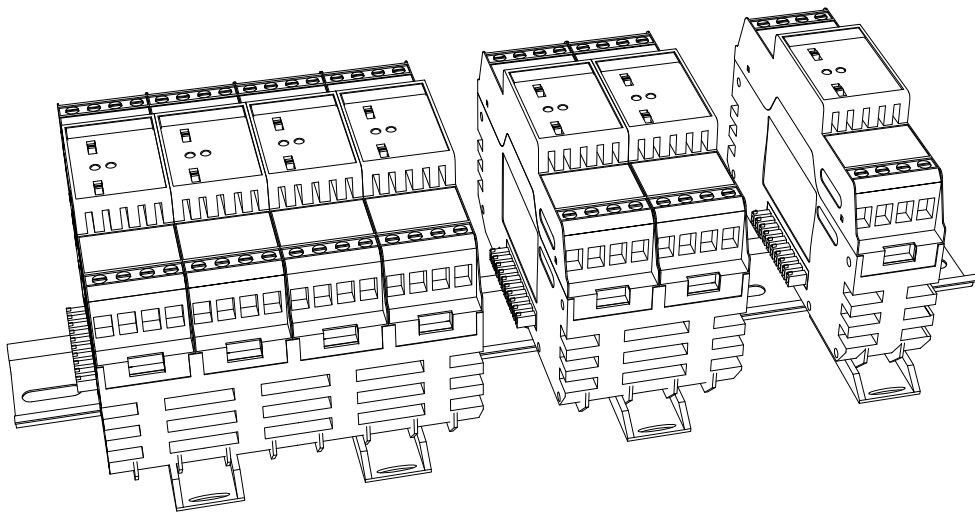


Figure 3

WIRING DIAGRAM

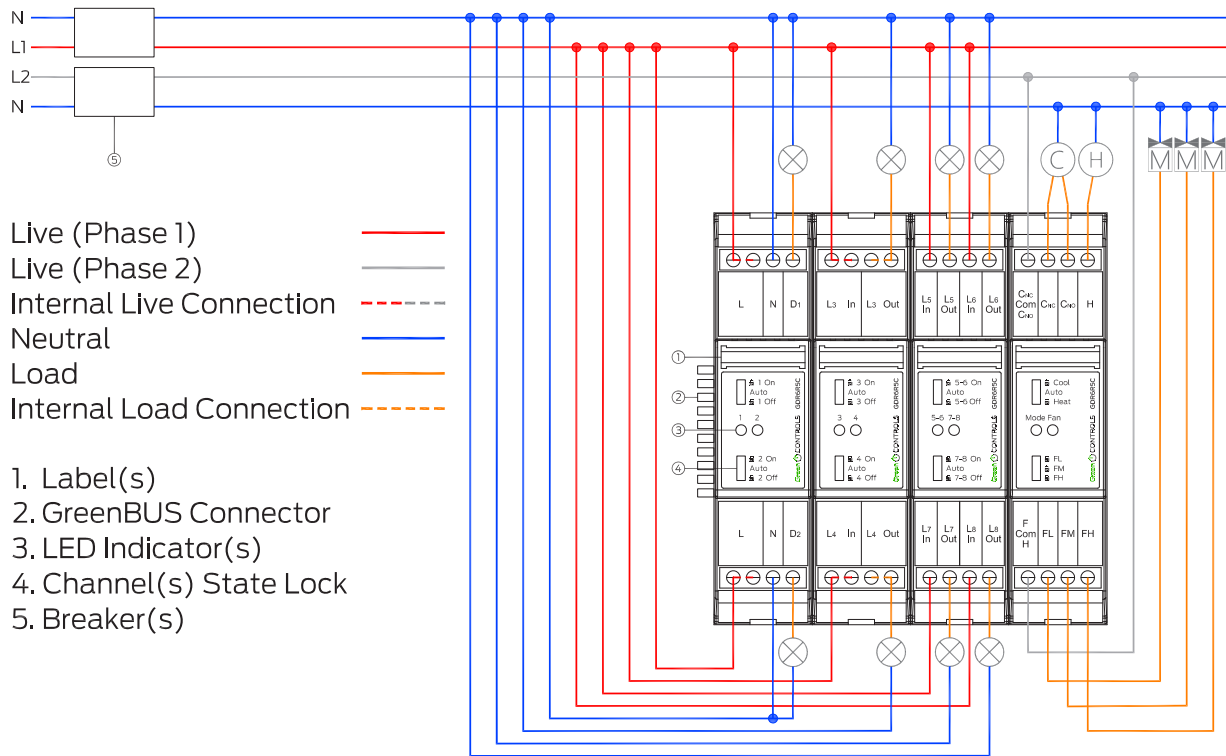


Figure 4: Wiring Diagram

RECOMMENDED CABLES

Module power input cable:

2.0mm² electrical copper wire.

Load output wire:

2.0mm² electrical copper wire.

Recommended cable configuration:

GND = Brown and White + Orange and White

B-(B)= Blue and White + Green and White

B+(A)= Blue + Green

24V = Brown + Orange

