

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

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## | 4. CLIMATE SERIES

### 4.6 Climate Module, 1 CTRLR Bridge CM051CG

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5. Guest Room Series
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) CM051CG Climate Module, 1 CTRLR Bridge is a GreenBUS output device designed for climate control applications for areas such as office buildings, residential buildings, hotels, airports, shopping malls and other spaces.

It can control one single/multi stage machines with two or more operation modes (Heating, Cooling and Others) and multi fan speed operation modes example (Low, Medium and High).

The module can handle FCU, AHU and Digital VAV systems. In conjunction with Green IoT LCD panels, switches or multisensor (with built-in temperature sensor) it provides an elegant interface to provide an energy efficient climate control solution. If required up to 7 zones or more can be controlled from a single LCD panels.

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

## | DEVICE FEATURES

LED status indicator (green), which can indicate the status of the device operation.

RS485 communication interface with selectable baud rate.

RS232 communication interface with selectable baud rate (optional).

Supports Timer and Event control.

Incorporates Zone and Category grouping.

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

Built-in Event engine supporting up to 32 Events with up to 8 triggers, 8 conditions and 128 actions.

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

Built-in Timer engines supporting up to 16 Timers.

Support all GreenBUS functions.

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.

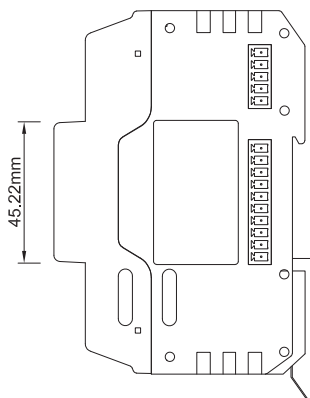
Supports local and online upgrade.

CE & RoHS compliant.

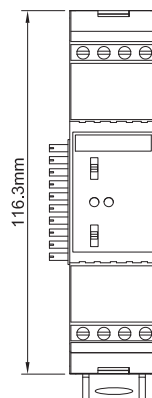
## TECHNICAL SPECIFICATIONS

Operation Voltage:	DC 24V ±10% (BUS Powered)
Power Consumption:	20mA ±10%
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
Color:	Grey
Module Dimension:	27.85 x116.3x80.3mm (WxHxD)
Packing Dimension:	65x125x90mm (WxHxD)
Net Weight:	50g
Gross Weight:	85g
Operation and Display:	Green LED, displaying the physical status
CE Mark:	In accordance with EMC and LVD
Protection Class:	IP20, EN60 529

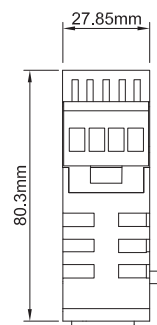
## DIMENSIONS



Side View



Front View



Top View

# 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).

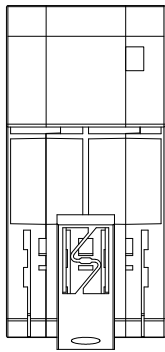


Figure 1

## 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).

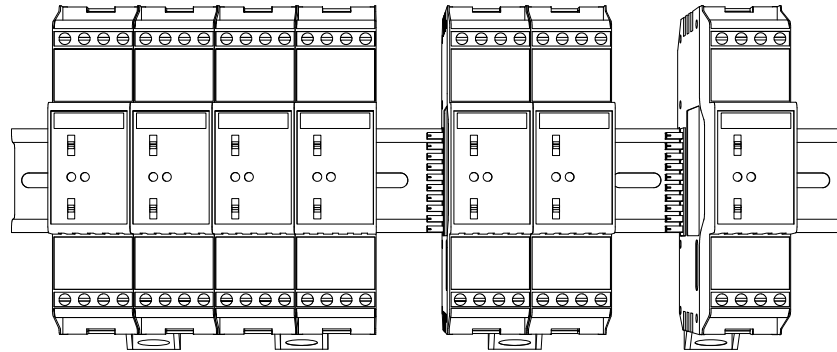


Figure 2

## Step 3:

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

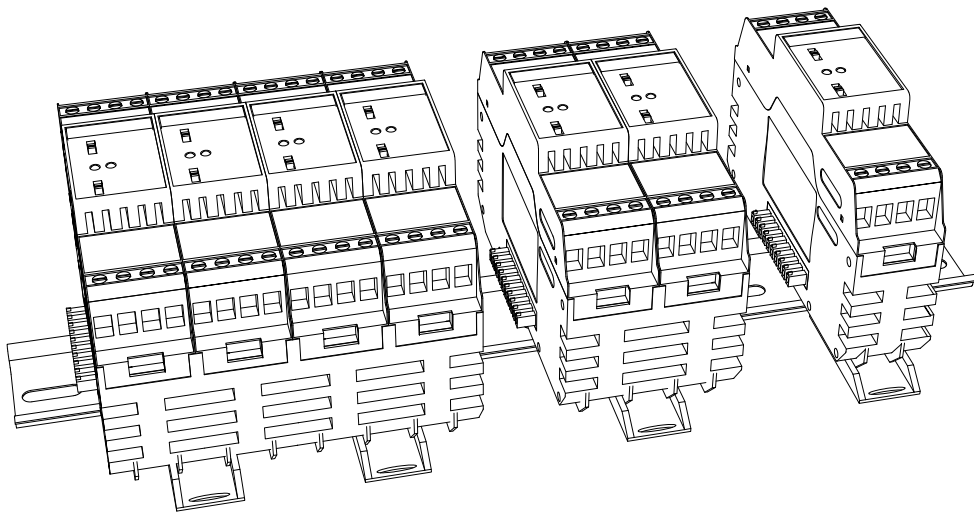
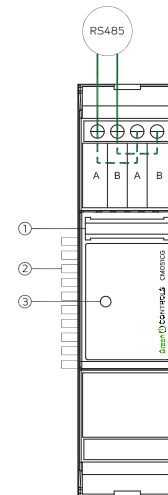


Figure 3

# WIRING DIAGRAM

I/O Wire

1. Label(s)
2. GreenBUS Connector
3. LED Indicator(s)



**Figure 4:** Wiring Diagram

# I RECOMMENDED CABLES

**Module power input cable:**

2.0mm<sup>2</sup> electrical copper wire.

**Load output wire:**

2.0mm<sup>2</sup> 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

