7. I/O SERIES

7.15 Multimedia Gateway Meshed with 2AI

MPGW064

I DESCRIPTION

The Blue IoT CONTROLS (Blue IoT) MPGW064 Multimedia Gateway Meshed with 2AI is a 3-way protocol communication converter which is used to connect between the BlueBUS and (3rd party) device(s) with RS485 and/or RS232 interfaces such as security and audio/video systems.

Addtionally, it is an I/O device that comes with two analog inputs, two IR transmitters and one IR receiver.

The analog inputs also allows integration with (3rd party) devices with analog output such as current, temperature, humidity sensors and many others.

The analog input can be used in conjunction with the IR transmitter to create smart control of devices that have only single IR code for On and Off by monitoring the current flow in the device being controlled before transmitting the IR code.

It also can work as a gateway between GreenBUS wired system if required.

The module is provided with a status LED used to identify the module during system configuration, and comes equipped with a push button switch for installation and testing

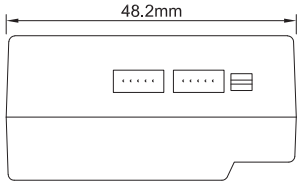
I DEVICE FEATURES

BlueBUS wireless structured meshed interface.
Provides 2 x 0-10V analog input channels.
Provides 2 x infrared output channels.
Built- in IR receiver (256 codes).
Built-in 12V power supply.
RS485 communication interface with selectable baud rate.
RS232 communication interface with selectable baud rate.
Incorporates a push button switch for installation and testing.
No earth is required.
LED indicates module link and health status.
Incorporates Zone and Category grouping.
Built-in Scene and Timer engines supporting up to 32 Scenes 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.
Supports local upgrade.
CE & RoHs certified.

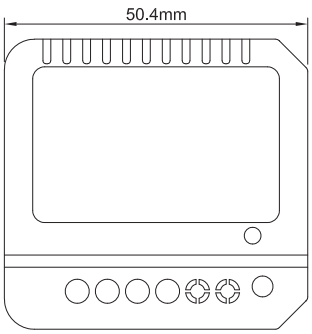
I TECHNICAL SPECIFICATIONS

Processor:	1.8MHz, Flashless, 200Kbyte RAM
Memory:	16MByte SPIFI Serial Flash
Additional Solid-state Memory:	8GByte (expandable as needed)
Ethernet:	RJ45 10/100Mbit Ethernet
Operation Voltage:	DC 24V ±10% (BUS Powered)
Power Consumption:	Approximately 75mA
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
Communication	RS485, TCP/UDP/IP
Module Dimension:	55.78x116.3x80.3mm (WxHxD)
Packing Dimension:	65x125x90mm (WxHxD)
Net Weight:	145g
Gross Weight:	180g
Protection Class:	IP20, EN60 529

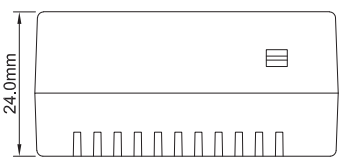
I DIMENSIONS



Side View



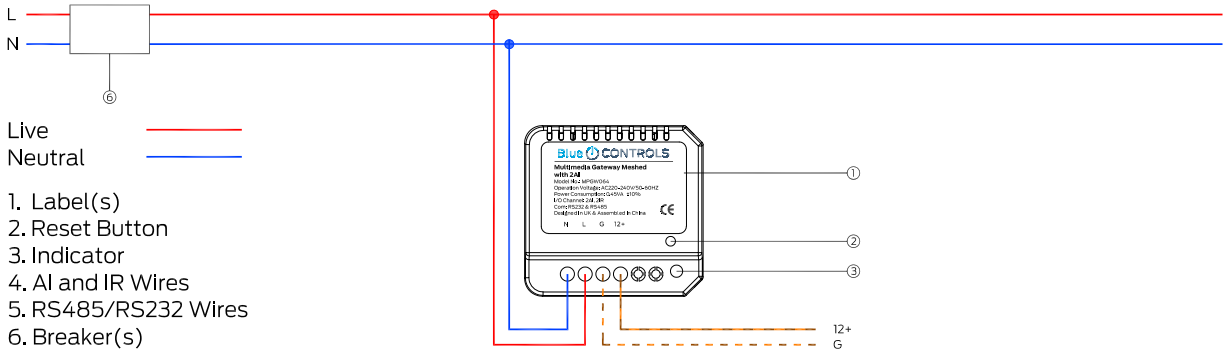
Front View



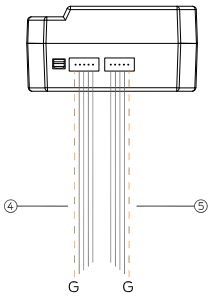
Top View

I INSTALLATION

WIRING DIAGRAM



4. AI and IR Wires (right to left)
   - AI_2. Analog Input 2
   - AI_1. Analog Input 1
   - IR_2. IR Transmitter 2
   - IR_1. IR Transmitter 1
   - G. Ground



5. RS485/RS232 Wires (right to left)
   - G - Ground
   - A - RS485
   - B - RS485
   - RX - RS232
   - TX - RS232

Figure 1: Wiring Diagram

RECOMMENDED CABLES

Module power input cable:
2.0mm² electrical copper wire.

Load output wire:
2.0mm² electrical copper wire.