

# 1. GATEWAY & BRIDGE SERIES

## 1.10 IP Blue Gateway 1CH, 2A IPBG12A

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2. Dimming Series
3. Relay Series
4. Climate Series
5. Guest Room Series
6. Human Interface Series
7. I/O Series
8. Power Supply Series
9. Multiroom Audio Series
10. Motorization Series



## | DESCRIPTION

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The Blue IoT CONTROLS (Blue IoT) IPBG12A IP Blue Gateway 1CH, 2A is a protocol communication converter between wireless structured meshed BlueBUS and Wi-Fi.

This allows Blue IoT installations to be integrated into advanced access control and security systems, fire alarm panels, digital surveillance, RFID, Audio and Video systems and other systems via TCP/UDP/IP.

It is used to bridge between BlueBUS network, GreenBUS network, Smart IoT CONTROLS (apps complete suite), and Smart IoT CONTROLS Configuration Client software (that allows configuration of various BlueBUS devices as well as the monitoring of device state changes).

In addition, it allows online Internet and mobile device control of BlueBUS installation from remote locations without the need for a local server/PC.

The advance operation of the embedded controller is to act as a centralized processor that reports all the transactions related to all the metadata associated with the loads and devices being controller. Hence, allowing the seamless control and integration with community services, facility management and/or any other cloud-base connectivity/solutions. This makes it the building block (enabler) for smart city connectivity.

The module comes equipped with a push button switch that allows local control of connected circuits/devices and for installation and testing.

## | DEVICE FEATURES

BlueBUS wireless structured meshed interface with selectable baud rate.

Provides two-way communication between networks.

Provides the option of 3.3V battery to maintain time/date in case of power or internet loss.

Customizable IP address and port.

All configuration data can be imported or exported using a PC.

Connects up to 32 input/output devices.

Time and date auto-update via the Internet (manually configurable if no connection is present).

Supports Muslim prayer time for both leap and non-leap years worldwide.

Reports transactions related to the metadata associated with the loads and devices.

Provides 1 x 2A channel output.

Incorporates a push button switch that allows local control of connected circuits/devices and for installation and testing.

The module is a direct DIY plug-in type.

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

LED indicates module link and health and load status.

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

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.

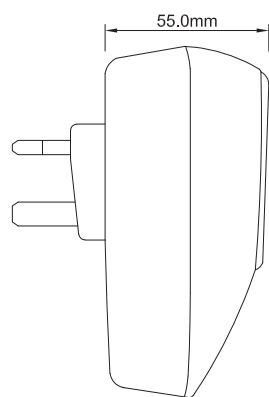
Supports local upgrade.

CE & RoHs certified.

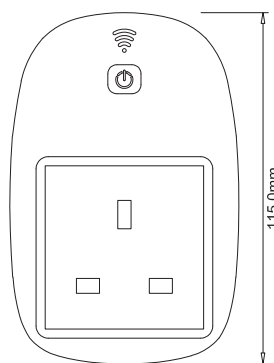
## TECHNICAL SPECIFICATIONS

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

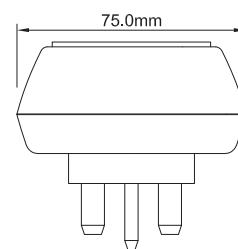
## DIMENSIONS



Side View



Front View



Top View

## INSTALLATION

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**Step 1:**

Turn the wall socket switch off (see Figure 1).

**Step 2:**

Plug the module to the wall socket switch (see Figure 1).

**Step 3:**

Plug the load to be controlled to the module and then turn the wall socket switch on (see Figure 1).

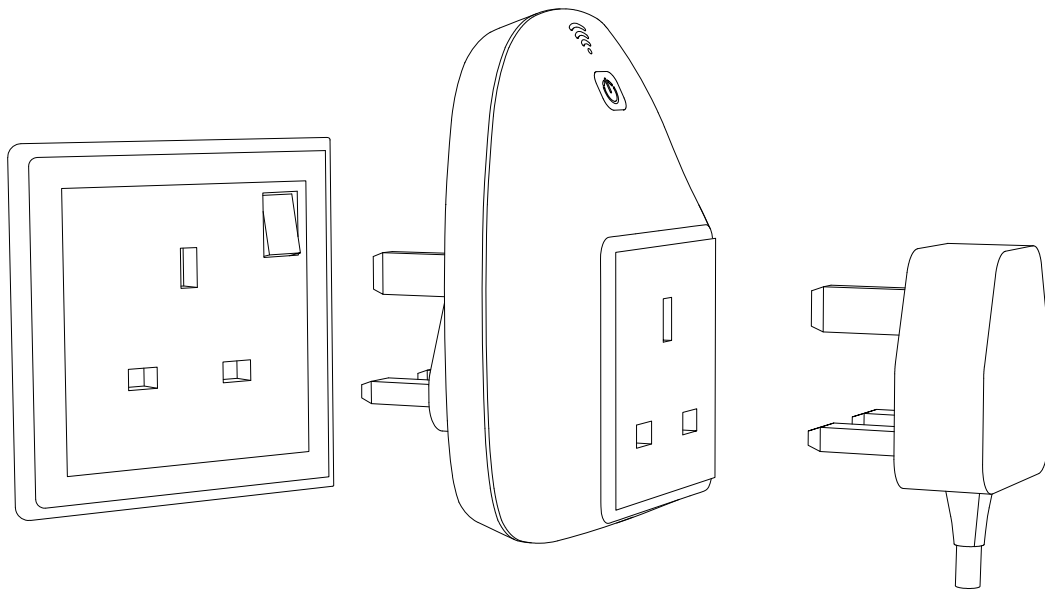


Figure 1

## WIRING DIAGRAM

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## RECOMMENDED CABLES

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**Module power input cable:**

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

**Load output wire:**

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