1. Gateway & Bridge Series
2. Dimming Series

3. RELAY SERIES
3.7 Relay Meshed 2CH, 10A with 4DI
RM0210A

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
The Blue IoT CONTROLS (Blue IoT) RM0210A Relay Meshed 2CH, 10A with 4DI is a BlueBUS 2 channel output device with a maximum control load of 10A per channel and a total module load of 20A.

Each channel is equipped with built-in port that can be used to connect an external current sensor for individual energy monitoring and reporting.

And, it provides 3 x 3.3V signal input channels used for up to three current sensors or any compatible analog output sensor.

Additionally, it provides 4 dry contact digital input channels that allows the use of standard light switches (3rd party), door/window contacts, flood, pressure, motion sensors and any other digital output.

The module is provided with a status LED to indicate the load status and can be used to identify the module during system configuration.

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.
- Provides 2 x 10A output channels.
- Provides 3 x 3.3V signal input channels.
- Provides 4 x dry contact digital input channels.
- Incorporates a push button switch that allows local control of connected circuits/devices and for installation and testing.
- No earth is required.
- Incorporates overheat and short circuit protection (fuse).
- Incorporates current detection and overload protection through external current sensors.
- 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>1.8MHz, Flashless, 200Kbyte RAM</td>
</tr>
<tr>
<td>Memory</td>
<td>16MByte SPIFI Serial Flash</td>
</tr>
<tr>
<td>Additional Solid-state Memory</td>
<td>8GByte (expandable as needed)</td>
</tr>
<tr>
<td>Ethernet</td>
<td>RJ45 10/100Mbit Ethernet</td>
</tr>
<tr>
<td>Operation Voltage</td>
<td>DC 24V ±10% (BUS Powered)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Approximately 75mA</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>0°C ~ +55°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-10°C ~ +55°C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>20% ~ 90%</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10% ~ 90%</td>
</tr>
<tr>
<td>Installation</td>
<td>35mm DIN rail mounting, EN50022</td>
</tr>
<tr>
<td>Communication</td>
<td>RS485, TCP/UDP/IP</td>
</tr>
<tr>
<td>Module Dimension</td>
<td>55.78x116.3x80.3mm (WxHxD)</td>
</tr>
<tr>
<td>Packing Dimension</td>
<td>65x125x90mm (WxHxD)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>145g</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>180g</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP20, EN60 529</td>
</tr>
</tbody>
</table>

## DIMENSIONS

![Side View](#)

![Front View](#)

![Top View](#)
INSTALLATION
**WIRING DIAGRAM**

![Wiring Diagram](image)

**RECOMMENDED CABLES**

**Module power input cable:**
2.0mm² electrical copper wire.

**Load output wire:**
2.0mm² electrical copper wire.