1. Gateway & Bridge Series
2. Dimming Series
3. Relay Series
4. Climate Series
5. Guest Room Series
6. Human Interface Series

7. I/O SERIES

7.14 Digital I/O Meshed 8CH, with 12V
DIOM812

8. Power Supply Series
9. Multiroom Audio Series
10. Motorization Series
**DESCRIPTION**

The Blue IoT CONTROLS (Blue IoT) DIOM812 Digital I/O Meshed 8CH, with 12V is a BlueBUS I/O device with built-in 12V power supply. It is designed to provide cost effective solution for areas with limited budget and/or requirement.

And, it provides 4 x 3.3V signal output channels used for LED indicator or as a trigger to (3rd party) relay contactors.

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 used to identify the module during system configuration, and comes equipped with a push button switch for installation and testing.
**DEVICE FEATURES**

- BlueBUS wireless structured meshed interface.
- Provides 4 x 3.3V signal output channels.
- Provides 4 x dry contact digital input channels.
- Built-in 12V power supply.
- 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Processor:</td>
<td>1.8MHz, Flashless, 200Kbyte RAM</td>
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<tr>
<td>Memory:</td>
<td>16MByte SPIFI Serial Flash</td>
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<td>Additional Solid-state Memory:</td>
<td>8GByte (expandable as needed)</td>
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<td>Ethernet:</td>
<td>RJ45 10/100Mbit Ethernet</td>
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<tr>
<td>Operation Voltage:</td>
<td>DC 24V ±10% (BUS Powered)</td>
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<tr>
<td>Power Consumption:</td>
<td>Approximately 75mA</td>
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<td>Working Temperature:</td>
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<tr>
<td>Storage Temperature:</td>
<td>-10°C - +55°C</td>
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<tr>
<td>Working Humidity:</td>
<td>20% - 90%</td>
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<tr>
<td>Storage Humidity:</td>
<td>10% - 90%</td>
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<td>Installation:</td>
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<td>Communication</td>
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<td>Module Dimension:</td>
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<td>Packing Dimension:</td>
<td>65x125x90mm (WxHxD)</td>
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<td>Net Weight:</td>
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<td>Gross Weight:</td>
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<td>Protection Class:</td>
<td>IP20, EN60 529</td>
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I DIMENSIONS

Side View

Front View

Top View
INSTALLATION
WIRING DIAGRAM

Figure 1: Wiring Diagram

RECOMMENDED CABLES

Module power input cable:
2.0mm² electrical copper wire.

Load output wire:
2.0mm² electrical copper wire.