



Azure BLU-RI2M Downstream Reader-Interface Board (2 Readers, 6 Supervised Inputs, 4 Outputs)

The BLU-RI2M is the next generation, downstream reader-interface board. It is a low-profile, PoE+ device that can be installed near or at the door. It features 2-door control with two combo TTL / OSDP reader ports; with supporting supervised inputs, and relay outputs.

Notable Features

- ▮ **FULLY ENCRYPTED COMMUNICATIONS**
 - > Whether network or serial, communication to Azure Controllers (ICs) are secure.
- ▮ **2 READER PORTS**
 - > Both reader ports connect either TTL (Weigand etc.) or RS485 (OSDP) readers
 - > Supports paired readers
- ▮ **6 FLEXIBLE ALARM INPUTS**
 - > Supervised or Unsupervised
 - > Supports pre-defined standards and custom input-supervision values
- ▮ **4 RELAY OUTPUTS**
 - > Configurable pulse/activation times
- ▮ **LED STATUS & DIAGNOSTICS**
 - > LEDs for all onboard activity, hardware interface statuses, & visual diagnostics
- ▮ **MULTIPLE ASSEMBLY OPTIONS**
 - > Ethernet / RS485
 - > PoE

Competitive Edge

- ▮ **HIGH-PRECISION ALARM INPUTS**
 - > Supervised Input circuitry is designed with application-specific components to maintain stability and reliability in even the most extreme conditions
 - > A combination of Software and Hardware filtering suppresses noise and eliminates false alarms
- ▮ **ENERGY EFFICIENT**
 - > Low power consumption compared to other panels with similar hardware interfaces
- ▮ **LOCAL I/O LINKING**
 - > Local, logical linking of Inputs and Outputs that can operate without involving the Intelligent Controller
- ▮ **OSDP ***
 - > Supports OSDP communication to the controller
- ▮ **INDUSTRIAL OPERATING TEMPERATURE (-40°C to +85°C)**
- ▮ **PoE+ OPTION**

Security

- ▮ TLSv1.2
- ▮ OSDP
- ▮ AES 128/256
- ▮ Encrypted firmware

Regulatory

- ▮ UL 294, UL294B, UL1076, UL2610
- ▮ ULC/ORD C1076
- ▮ CE Compliant
- ▮ FCC Part 15 Class A
- ▮ RoHS

* Contact factory for depth of support

AZURE BLU-RI2M

SPECIFICATION

POWER

- Input power: 12 VDC
- PoE+ option available
- Auxiliary output power port can supply up to 1 Amp to power door strikes or other peripheral devices.

GENERAL INFORMATION

- INDUSTRIAL operation and storage temperature (-40°C to +85°C)
- 5% to 95% humidity
- Dimensions:
5.4in (137.2mm) x 2.75in (69.9mm) x 0.88in (22.35mm)
- Weight: 0.28 pounds (126 grams)

ONBOARD HARDWARE INTERFACES

- 2 Reader Ports supporting both TTL and RS485
 - Single-wire and two-wire LED control support
 - Open collector buzzer output
- 6 Configurable Supervised/Unsupervised Inputs
- 4 Form-C Relay Outputs
 - 2A @ 30VDC MAX rating
- 1 Unsupervised cabinet tamper
- Up to 1 Network Port
 - 10/100 Fast Ethernet
- 1 Upstream RS485 Comm Port
 - 9,600 to 115,200 baud
 - 2-wire interface
- DIP switches for configuring hardware interfaces
 - Serial COM and Network

PRODUCT OPTIONS

Model	SKU	Description
BLU-RI2M-P	801020-P	RS-485 Serial communication with Ethernet and PoE+
BLU-RI2M-N	801020-N	RS-485 Serial communication with Ethernet
BLU-RI2M	801020	RS-485 Serial communication

SYSTEM DIAGRAM

