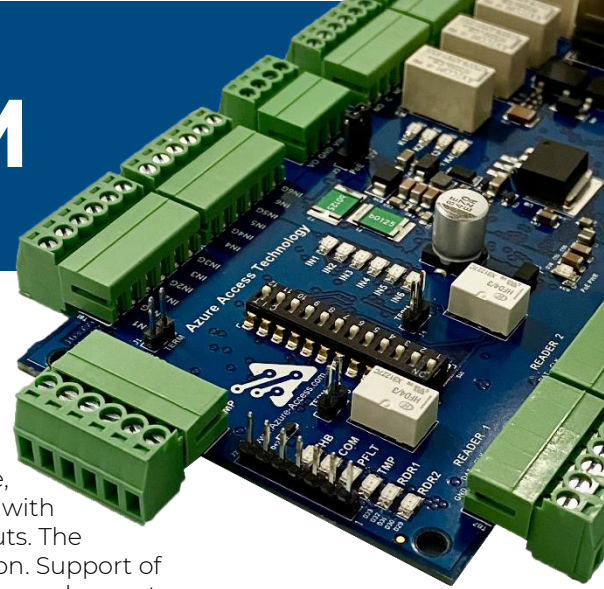


Azure BLU-RI2M Downstream Reader-Interface Board (2 Readers, 6 Supervised Inputs, 4 Outputs)

The BLU-RI2M is a downstream, OSDP 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, six supervised inputs, and four relay outputs. The BLU-RI2M communicates with the controller over a serial or network connection. Support of Offline Modes enables basic access control functionality and event reporting even when not communicating with the controller.



Notable Features

- ▮ **FULLY ENCRYPTED COMMUNICATIONS**
 - > Whether network or serial, communication to Azure Access Controllers (ICs) is 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 / Serial only
 - > 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
- ▮ **OFFLINE OPERATION**
 - > Local, logical linking of Inputs and Outputs that can operate without involving the controller
 - > Offline Modes allow for basic access control functionality when not communicating with the controller
- ▮ **OSDP DEVICE**
 - > OSDP communication to the controller with proprietary enhancements
 - > Supports OSDP Secure Channel with custom keys
- ▮ **INDUSTRIAL OPERATING TEMPERATURE (-40°C to +85°C)**
- ▮ **PoE+ OPTION**

Security

- ▮ OSDP Secure Channel
- ▮ AES 128/256
- ▮ Encrypted firmware

Regulatory

- ▮ CE Compliant
 - > EN 61000-6
 - > EN 50130-4
- ▮ FCC Part 15 Class A
- ▮ RoHS

AZURE BLU-RI2M

SPECIFICATION

POWER

- › VIN 12VDC
 - > Board operating current: 190mA max
 - > Full-load (powering peripherals) current: 2.19A max
- › PoE+ option available
- › Aux power output port to power door strikes or other peripheral devices (1 Amp)
- › Reader power connection on each Reader Port (500mA)

GENERAL INFORMATION

- › Industrial operation 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
- › 2 Unsupervised Inputs
 - > Cabinet Tamper
 - > Power Supply Fault
- › 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	801021-P	RS-485 Serial communication with Ethernet and PoE+
BLU-RI2M-N	801021-N	RS-485 Serial communication with Ethernet
BLU-RI2M-S	801021-S	RS-485 Serial communication

SYSTEM DIAGRAM

