

BLU-RI4

Azure BLU-RI4 Downstream Reader-Interface Board (4 Readers, 12 Supervised Inputs, 8 Outputs)

The BLU-RI4 is a downstream, OSDP reader-interface board. It features 4-door control with four combo TTL / OSDP reader ports, twelve supervised inputs, and eight relay outputs. The BLU-RI4 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 ENCRYTPED COMMUNICATIONS

> Whether network or serial, communication to Azure Access Controllers (ICs) is secure.

4 READER PORTS

- > Both reader ports support TTL (Weigand etc.) or RS485 (OSDP) readers, including biometrics
- > Supports paired readers

) 12 FLEXIBLE ALARM INPUTS

- > Supervised or Unsupervised
- > Supports pre-defined standards and custom input-supervision values
- **8 RELAY OUTPUTS**
- > Configurable pulse/activation times
- **IED STATUS & DIAGNOSTICS**
 - > LEDs for all onboard activity, hardware interface statuses, & visual diagnostics
- **MULTIPLE ASSEMBLY OPTIONS**
 - > Ethernet / Serial only

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)

Security

OUTPUT

OUTPUT

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

Regulatory

, CE Compliant

- FCC Part 15
- Class A
- RoHS



AZURE BLU-RI4

SPECIFICATION

POWER

- VIN 12 to 24VDC
 - > Board operating current: 310mA max @ 12VDC
 - > Full-load (powering peripherals) current: 3.32A max
- Aux power output port to power door strikes or other peripheral devices (2 Amp)
- Reader power connection on each Reader Port (500mA max per port)
 - > VIN Passthrough (2A max)
- > Regulated 12VDC (1.2A combined max)

GENERAL INFORMATION

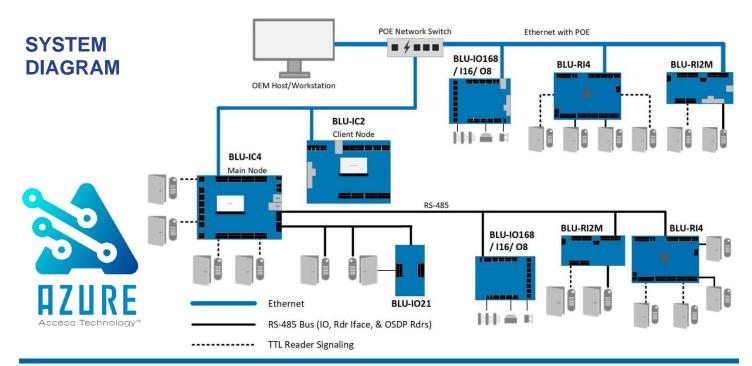
- Industrial operation temperature (-40°C to +85°C)
- 5% to 95% humidity
- Dimensions:8in (203.2mm) x 6in (152.4mm) x 0.75in (19.05mm)
- Weight: 0.6 pounds (272 grams)

PRODUCT OPTIONS

ONBOARD HARDWARE INTERFACES

- 4 Reader Ports supporting both TTL and RS485
 - > Single-wire and two-wire LED control support
 - > Open collector buzzer output
- 12 Configurable Supervised/Unsupervised Inputs
- 8 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

Model	SKU	Description
BLU-RI4-N	801051-N	RS-485 Serial communication with Ethernet
BLU-RI4-S	801051-S	RS-485 Serial communication



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