

Azure Access Technology BLU-IO168 Downstream Input/Output Board (16 Supervised Inputs & 8 Outputs)

Extend your Access Control system with the Azure BLU-IO168's 16 high-precision sensor inputs and 8 relay outputs. The large number of inputs and outputs enables the full control of additional doors, monitoring extensive sensor networks, and elevator control. Plug-in expansion module adds 8 more relay outputs. The BLU-IO168 communicates with proprietary or OSDP protocols, both fully encrypted. Relative to the quantity of hardware interfaces, the BLU-IO168 consumes minimal power and is even offered with PoE+ options.

Notable Features

- ▮ **FULLY ENCRYPTED COMMUNICATIONS**
 - > Whether network or serial, communication to Azure Intelligent Controllers (ICs) are secure.
- ▮ **16 FLEXIBLE ALARM INPUTS**
 - > Supervised or Unsupervised
 - > Supports pre-defined standards and custom input-supervision values
- ▮ **8 RELAY OUTPUTS**
 - > Expandable to 16 relay outputs with plug-in expansion module
 - > Configurable pulse/activation times
 - > Supports up to 16 elevator reader floors, with floor selection feedback
- ▮ **LED STATUS & DIAGNOSTICS**
 - > LEDs for all onboard activity and hardware interface statuses
 - > Visual diagnostics via LEDs
- ▮ **MULTIPLE PRODUCT OPTIONS**
 - > Full IO / Inputs only / Outputs only
 - > 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
- ▮ **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

AZURE BLU-IO168

SPECIFICATION

INPUT POWER

- 12-24 VDC; 200mA Max current
- Max current: 200mA board only; 350mA with Expansion Module
- PoE+

GENERAL INFORMATION

- INDUSTRIAL operation and storage temperature (-40°C to +85°C)
- 5% to 95% humidity
- Dimensions: 7.5in (190.5mm) x 5.5in (139.7mm) x 0.75in (19mm)
- Weight: 0.4 pounds (181.5 grams)

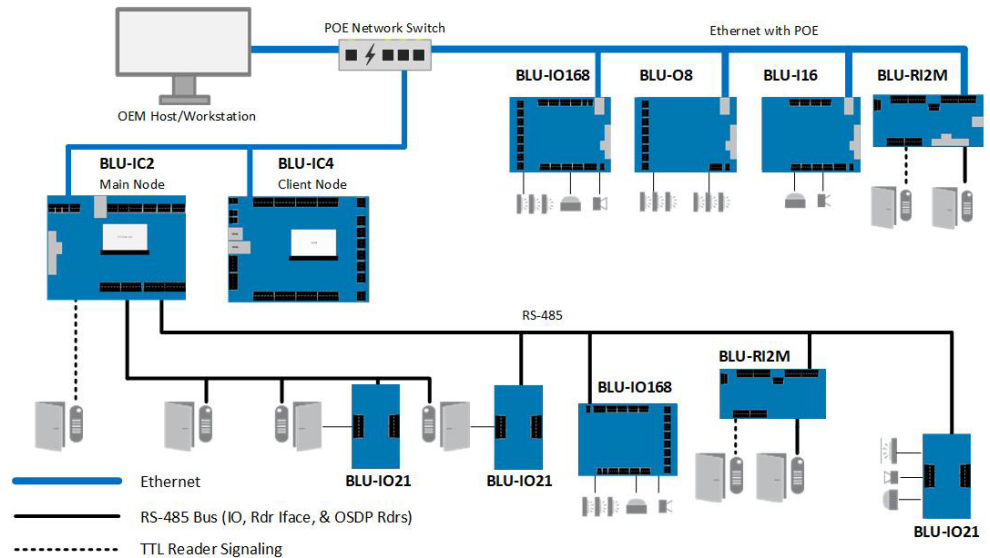
ONBOARD HARDWARE INTERFACE

- 16 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
 - > 4-wire & 2-wire interface supported
- Expandable IO Port
 - > Plug-in module adds 8 more relay outputs
- DIP switches for configuring hardware interfaces
 - > Configure input supervision type, serial com address, & baud rate

PRODUCT OPTIONS

Model	SKU	Description
BLU-IO168-P	801040-P	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, PoE
BLU-IO168-N	801040-N	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, no PoE
BLU-IO168	801040	Alarm Module, supports 16 supervised inputs and 8 outputs, serial connection only
BLU-X08	801400	8 Relay Output Expansion Module for ASP-IO168
BLU-I16-P	801041-P	Alarm Module, supports 16 supervised inputs, network connection, PoE
BLU-I16-N	801041-N	Alarm Module, supports 16 supervised inputs, network connection, no PoE
BLU-I16	801041	Alarm Module, supports 16 supervised inputs, serial connection only
BLU-O8-P	801042-P	Alarm Module, supports 8 outputs, network connection, PoE
BLU-O8-N	801042-N	Alarm Module, supports 8 outputs, network connection, no PoE
BLU-O8	801042	Alarm Module, supports 8 outputs, serial connection only

SYSTEM DIAGRAM



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