

BLU-10168

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

The BLU-IO168 is a downstream, OSDP board that can expand your access control system with 16 high-precision alarm inputs and 8 relay outputs. This board allows for full control of additional doors, monitoring extensive sensor networks, and elevator control. A plug-in expansion module adds 8 more relay outputs. The BLU-IO168 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 Intelligent Controllers (ICs) is 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
- > PoE+ / 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 allows operation without controller connection
- **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

- UL 294, UL294B, UL1076, UL2610
- ULC/ORD C1076
- CE Compliant
- > EN 61000-6
- > EN 01000-0
- > EN 50130-4
- FCC Part 15
- Class A
- RoHS



AZURE BLU-I0168



SPECIFICATION

POWER

- VIN 12 to 24VDC
 - > 12V board operating current: 240mA max
 - > 12V board + relay module current: 350mA max
 - > 24V board operating current: 130mA max
 - > 24V board + relay module current: 185mA max
- PoE+ option available

GENERAL INFORMATION

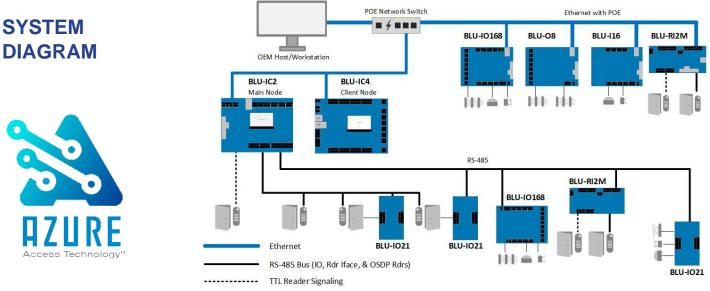
- Industrial operation temperature (-40°C to +85°C)
- 5% to 95% humidity
- Dimensions: 8in (203.2mm) x 6in (152.4mm) x 0.75in (19mm)
- Weight: 0.4 pounds (181.5 grams)

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
 - > 2-wire interface
- Expandable IO Port
- > Plug-in module adds 8 more relay outputs
- DIP switches for configuring hardware interfaces
- > Serial COM and Network

PRODUCT OPTIONS

Model	SKU	Description
BLU-IO168-P	801043-P	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, PoE
BLU-IO168-N	801043-N	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, no PoE
BLU-IO168-S	801043-S	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	801044-P	Alarm Module, supports 16 supervised inputs, network connection, PoE
BLU-I16-N	801044-N	Alarm Module, supports 16 supervised inputs, network connection, no PoE
BLU-I16-S	801044-S	Alarm Module, supports 16 supervised inputs, serial connection only
BLU-O8-P	801045-P	Alarm Module, supports 8 outputs, network connection, PoE
BLU-O8-N	801045-N	Alarm Module, supports 8 outputs, network connection, no PoE
BLU-O8-S	801045-S	Alarm Module, supports 8 outputs, serial connection only



For more information email: GoToBlue@azure-access.com | phone: +1 949 418 7799 | Azure Access Technology 3610 Birch Street, Suite 200, Newport Beach, CA 92660 ©2023 Azure Access Technology Revision date: 27 September 2023