

Apollo ASP-IO168 Downstream Input/Output Board (16 Supervised Inputs & 8 Outputs)

Extend your Access Control system with the Apollo ASP-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 ASP-IO168 communicates with proprietary or OSDP protocols, both fully encrypted. Relative to the quantity of hardware interfaces, the ASP-IO168 consumes minimal power and is even offered with PoE+ assembly options.

Notable Features

- ▶ **FULLY ENCRYPTED COMMUNICATIONS**
 - > Whether network or serial, communication to Apollo 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 ASSEMBLY OPTIONS**
 - > Full IO / Inputs only / Outputs only
 - > Ethernet / RS485
 - > PoE

Competitive Edge

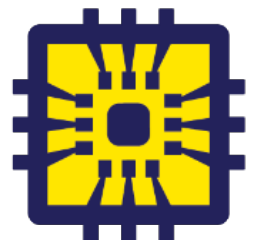
- ▶ **HIGH-PRECISION ALARM INPUTS**
 - > Supervised Input circuitry is designed with application-specific components to maintain stability and reliability in even the most extreme conditions
 - > A combination of Software and Hardware filtering suppresses noise and eliminates false alarms
- ▶ **ENERGY 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 along with proprietary communication protocols 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

SPECIFICATION

INPUT POWER

- 12-24 VDC
- 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
ASP-IO168-P	421600	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, PoE
ASP-IO168-N	421601	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, no PoE
ASP-IO168	421602	Alarm Module, supports 16 supervised inputs and 8 outputs, serial connection only
ASP-X08	421609	8 Relay Output Expansion Module for ASP-IO168
ASP-I16-P	421603	Alarm Module, supports 16 supervised inputs, network connection, PoE
ASP-I16-N	421604	Alarm Module, supports 16 supervised inputs, network connection, no PoE
ASP-I16	421605	Alarm Module, supports 16 supervised inputs, serial connection only
ASP-O8-P	421606	Alarm Module, supports 8 outputs, network connection, PoE
ASP-O8-N	421607	Alarm Module, supports 8 outputs, network connection, no PoE
ASP-O8	421608	Alarm Module, supports 8 outputs, serial connection only

SYSTEM DIAGRAM

