

ASP-10168

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

The Apollo ASP-IO168 is a downstream, OSDP board that can expand your access control system with 16 high-precision sensor 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 ASP-IO168 communicates with the controller over a serial or network connection using OSDP or legacy Apollo protocol. 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 Apollo controllers 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 ASSEMBLY 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

DESIGNATION 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

- > Proprietary or enhanced OSDP communication to the controller
- > 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 50130-4
- FCC Part 15 Class A
- RoHS



Apollo ASP-IO168



SPECIFICATION

INPUT 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: 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	421617	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, PoE
ASP-IO168-N	421618	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, no PoE
ASP-IO168-S	421619	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	421620	Alarm Module, supports 16 supervised inputs, network connection, PoE
ASP-I16-N	421621	Alarm Module, supports 16 supervised inputs, network connection, no PoE
ASP-I16-S	421622	Alarm Module, supports 16 supervised inputs, serial connection only
ASP-O8-P	421623	Alarm Module, supports 8 outputs, network connection, PoE
ASP-O8-N	421624	Alarm Module, supports 8 outputs, network connection, no PoE
ASP-O8-S	421625	Alarm Module, supports 8 outputs, serial connection only
ASP-IO168-P-02	421626	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, PoE, DoE Configuration
ASP-IO169-N-02	421627	Alarm Module, supports 16 supervised inputs and 8 outputs, network connection, no PoE, DoE Configuration
ASP-IO168-S-02	421628	Alarm Module, supports 16 supervised inputs and 8 outputs, serial connection only, DoE Configuration
ASP-I16-P-02	421629	Alarm Module, supports 16 supervised inputs, network connection, PoE, DoE Configuration
ASP-I16-N-02	421630	Alarm Module, supports 16 supervised inputs, network connection, no PoE, DoE Configuration
ASP-I16-S-02	421631	Alarm Module, supports 16 supervised inputs, serial connection only, DoE Configuration

SYSTEM DIAGRAM



