ASP-RI2M

Apollo ASP-RI2M
Downstream Reader-Interface Board
(2 Readers, 6 Supervised Inputs, 4 Outputs)

The ASP-RI2M is the next-generation, downstream reader-interface board. It is a low-profile, PoE+ device that can be installed near or at the door. It features 2-door control with two combo TTL / OSDP reader ports, six supervised inputs, and four relay outputs. The ASP-RI2M 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 Apollo controllers is secure

‣ **2 READER PORTS**
> Both reader ports connect either TTL (Weigand etc.) or RS485 (OSDP) readers
> Supports paired readers

‣ **6 FLEXIBLE ALARM INPUTS**
> Supervised or Unsupervised
> Supports pre-defined standards and custom input-supervision values

‣ **4 RELAY OUTPUTS**
> Configurable pulse/activation times

‣ **LED STATUS & DIAGNOSTICS**
> LEDs for all onboard activity, hardware interface statuses, & visual diagnostics

‣ **MULTIPLE ASSEMBLY OPTIONS**
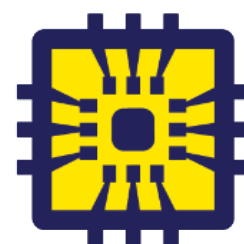> Ethernet / Serial only
> PoE+

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

‣ **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 certificates

‣ **INDUSTRIAL OPERATING TEMPERATURE (-40°C to +85°C)**

‣ **PoE+ OPTION**

Security

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

Regulatory

‣ CE Compliant
> EN 61000-6
> EN 50130-4
‣ FCC Part 15 Class A
‣ RoHS

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SPECIFICATION

POWER

⟩ VIN 12VDC
  › Board operating current: 190mA max
  › Full-load (powering peripherals) current: 2.19A max
⟩ PoE+ option available
⟩ Aux power output port to power door strikes or other peripheral devices (1 Amp)
⟩ Reader power connection on each Reader Port (500mA)

GENERAL INFORMATION

⟩ Industrial operation temperature (-40°C to +85°C)
⟩ 5% to 95% humidity
⟩ Dimensions:
  5.4in (137.2mm) x 2.75in (69.9mm) x 0.88in (22.35mm)
⟩ Weight: 0.28 pounds (126 grams)

ONBOARD HARDWARE INTERFACES

⟩ 2 Reader Ports supporting both TTL and RS485
  › Single-wire and two-wire LED control support
  › Open collector buzzer output
⟩ 6 Configurable Supervised/Unsupervised Inputs
⟩ 4 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

PRODUCT OPTIONS

Model	SKU	Description
ASP-RI2M-P	422601	RS-485 Serial communication with Ethernet and PoE+
ASP-RI2M-N	422602	RS-485 Serial communication with Ethernet
ASP-RI2M	422603	RS-485 Serial communication

SYSTEM DIAGRAM