

ASP-4

Apollo Security ASP-4

High-Speed, 4-Reader Network Controller (4 Reader Ports, 16 Supervised Inputs, 8 Outputs)

The high-performance ASP-4 is an open-hardware architecture, clustering network controller that fully supports up to four doors. The ASP-4 is open for integration with software solutions via intuitive SDKs across multiple languages. The ASP-4 fully leverages the embedded LinuxTM OS to offer groundbreaking features like 3rd party application support. Communications are encrypted end-to-end (Host to reader), firmware is encrypted, and user certificates are supported.

Notable Features

OPEN HARDWARE PLATFORM

- > SDK allows for hardware integration into any cloud or on-site Host software
- **▶ EMBEDDED LINUX™ OS**
- FULLY CONFIGURABLE HARDWARE INTERFACES
 - > Onboard interfaces support 4 doors using TTL or RS485 (OSDP) readers, or up to 8 doors using OSDP readers with extra licenses
- **HOST-TO-READER ENCRYPTION**
 - > All serial and network communications can be encrypted
- RAPID DOWNLOAD SPEEDS
 - > Performance of up to 10K cards per second
- **BIOMETRIC TEMPLATES STORED ONBOARD**

Competitive Edge

NETWORK CLUSTERING

- > Controller-to-controller communications for features like shared antipassback and improved Host connection performance
- OEM / 3rd-PARTY DEVELOPED & INSTALLED APPS
 - > User-developed, user-deployed, and user-maintained applications that run on the controller in safe, containerized environment
- **ASYNCHRONOUS COMMUNICATIONS**
 - > Events are sent to the host in real time, without polling
- **SCRIPTING & INTERNAL VARIABLES**
 - > Without modifying firmware, users can create custom logic to meet specific system function requirements
- **COST-EFFECTIVE EXPANSION**
 - > Connect up to 16 OSDP readers with inexpensive upgradable licenses while reducing hardware costs
- INDUSTRIAL OPERATING TEMPERATURE (-40°C to +85°C)

Security

- OpenSSL
- TLSv1.3 with TLS Server/Peer certificate checking
- ▶ AES256-SHA256
- OSDP Secure Channel
- FIPS 201-2
- SSCPv2; Meets ANSSI encryption requirements
- CAC
- **TWIC**
- Firmware upgrades are signed and encrypted

Access Control

- Anti-Passback
- Threat levels
- Use Limits
- N man rule
- Occupancy Management
- Visitors and Escorts
- Elevator Control (Up to 128 floors)
- Host-Controlled Access Request
- Duress Code
- Keypad with flexible pin lengths
- Supported reader types:
 - > OSDP
 - > Wiegand
 - > Clock & Data
 - > SSCPv2
 - > FIPS 201 PKI-based card and legacy types
 - > Biometric

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POWER

- Input Power (VIN):
 - > 12-28VDC; 500mA MAX current
- Reader Port output power:
 - > VIN passthrough with 500mA per port
- USB 5VDC; 500mA MAX current
- Onboard power supervision with backup power
 - > Events and RTC maintained through power failure

ONBOARD HARDWARE INTERFACES

- 4 TTL (Wiegand/Clock & Data) Reader Ports
 - > Open-collector Buzzer output
 - > Supports single-wire and two-wire reader LED control
- 16 Supervised or Unsupervised Inputs
 - > Configurable supervision values (12 pre-defined)
 - > High-speed input scanning with filtering/noise suppression to eliminate false alarms
 - > High-precision analog ICs for stability in noisy environments
- 8 Form-C Relay Outputs
 - > 2A @ 24VDC MAX rating
- 1 Unsupervised Cabinet Tamper input
- 2 Dedicated 10/100 Ethernet Ports
- 2 Downstream, RS485 Serial Com Ports
 - Multidrop up to 32 IO and/or Reader Interface panels per port
 - > Up to 8 OSDP readers per port
 - > 9,600 to 115,200 baud
 - > 4-wire interface with 2-wire support
- > Each port can be configured for a different RS485 protocol
- **USB 2.0**

MEMORY CAPACITY

- Minimum Memory Specs: 512MB Flash & 256MB RAM
-) Up to 250,000 cards
- Up to 128 readers with standard configuration
- Configurable 100K+ Event buffer
- 300 Access Levels per controller
- ▶ 50 Access Levels per cardholder
- 127 Magnetic stripe card formats
- 127 Wiegand card formats

NETWORK AND HOST

- Onboard web server for board configuration
- Host-initiated or controller-initiated connections
- Up to 5 concurrent Host connections with authorized-host list
- IPv4 / IPv6 (Static or DHCP)
- **SNMP**

REGULATORY COMPLIANCE

- CE Compliant
- > EN 61000-6
- > EN 50130-4
- FCC Part 15 Class A
- RoHS / Pb (Lead) Free

GENERAL INFORMATION

- Industrial operation temperature (-40°C to +85°C)
- 5% to 95% humidity
- Dimensions: 8in (203.2mm) x 6in (152.4mm) x 1in (25.4mm)
- Weight: 0.6 pounds (363 grams)
- SKU: 430600-2
 - 430601-2
 - 430602-2
 - 430603-2

