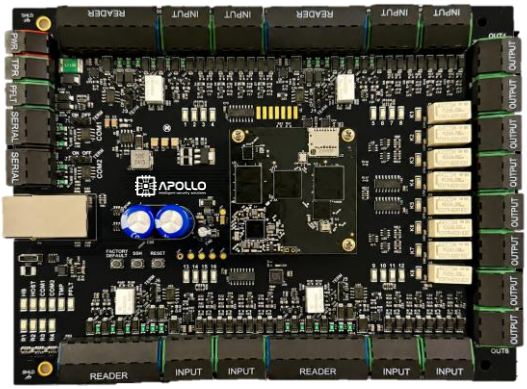
ASP-CP4

4 Reader Ports, 16 Inputs, & 8 Outputs

4-Door, Security-Hardened Controller Platform

The **Apollo Security ASP-CP4** is a next-generation, Linux-native access controller built for demanding, security-critical environments where scale, resilience, and modern cybersecurity are required. Designed as a four-door controller with server-grade performance, it provides onboard interfaces to natively secure four access points while leveraging a high-performance compute architecture and dedicated real-time processing for deterministic operation and enterprise capacity. As an open-architecture Controller Platform, ASP-CP4 enables multiple embedded applications, cloud-native integrations, and controller clustering, empowering OEMs to deliver highly customized, future-ready solutions that exceed the limits of legacy systems. Flexible expansion reduces deployment complexity and total cost, making the ASP-CP4 ideal for both fast-growing sites and large enterprise rollouts.



ASP-CP4

Engineered for Scale, Built for Resilience

ACCESS CONTROL FEATURES

- Anti-Passback
- Programmable Threat Levels
- Credential Use Limits
- Lockdowns
- No-Man Rule
- Visitor & Escort Temporary Access
- Elevator Control Up to 256 Floors
- Host-Controlled Access Request
- Duress Code
- Flexible Keypad PIN Lengths
- Strike Follower

COMPETITIVE EDGE

- Purpose-Built Embedded Linux OS
- Zero-downtime Firmware Updates
- Firmware rollback (“System Restore”)
- Cloud-Native with IoT
- Enhanced Embedded App Environment
- Scripting & Logic Macros
- Superior Performance
- Backwards compatible via SDK integration
- Twice as many downstream boards as ASP-IC4 Intelligent Controller

BUILT-IN SECURITY FRAMEWORK

- Secure Boot
- Encryption at Rest
- OpenSSL
- TLSv1.3 with Certificate Validation
- AES-256 / SHA-256 Encryption
- OSDP Secure Channel
- FIPS 201 Compliant
- HSM-signed firmware and certificates
- Internal Network Firewall

SUPPORTED READER TYPES

- Wiegand / Clock & Data
- OSDP
- SSCP
- Mobile Credentials
- PIV, CAC, & TWIC
  (FIPS 201 Complaint Credentials)
- Biometrics:

TECHNICAL HIGHLIGHTS

- Open Architecture with Customization Layers
- Run multiple embedded apps in parallel
- Supports proprietary protocols
- Custom-mappable hardware interfaces
- Guaranteed Real-Time Operation
- High-Speed Downloads (20K cars/sec)
- Indefinite Event & RTC Backup During Power Failure
- Battery-less Design
- Onboard Biometric Template Storage

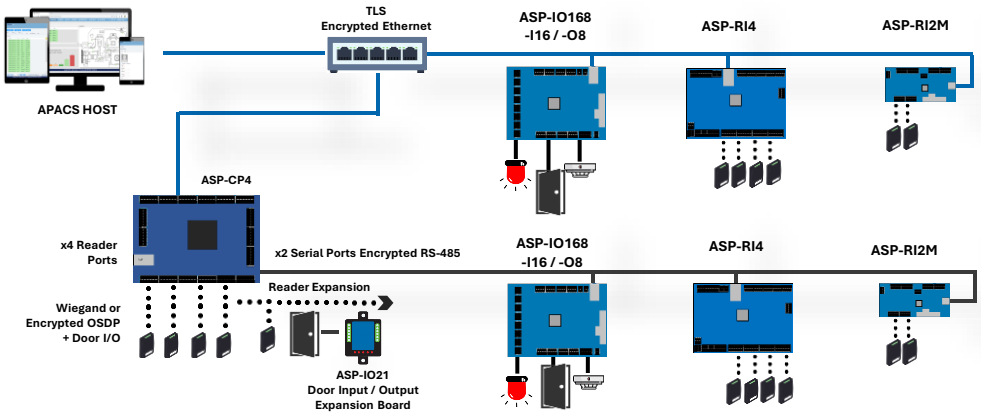
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Phone: +1 949 852 8172 | www.Apollo-Security.com

ASP-CP4

Four-Door Controller Platform

ASP-CP4 SYSTEM DIAGRAM



ONBOARD HARDWARE INTERFACES

- **2 Downstream, RS485 Serial Com Ports**
  - Multi-drop up to 32 serial downstream IO and/or Reader Intreace boards total between both ports.
  - 9,600 to 230,400 baud
  - 2-wire interface; half-duplex
- **4 Reader Ports supporting TTL & RS485 readers**
  - One Wiegand reader or two RS485 readers per port
  - Up to 16 OSDP readers total with reader expansion license
  - One open-collector Buzzer output
  - Three open-collector LED outputs
- **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 @ 30VDC MAX rating
- **2 Unsupervised Inputs for Cabinet Tamper & Power Failure**
- **USB 2.0**
- **2 Network Ports**
  - 1 dedicated 1000Mbps (Gigabit) Ethernet port
  - 2nd Ethernet port via USB-to-Ethernet adapter
  - Expand system with up to 64 Networked I/O Boards and Reader Interface Boards

POWER

- **Input Power (VIN):**
  - 12-24 VDC; 400 mA MAX (typical)
- **Reader Port Output Power (overcurrent protected):**
  - Reader power can be cycled with software
  - VIN passthrough with 800 mA MAX per port
- **USB 5VDC; 500mA MAX current**
- **Onboard power supervision with backup power**
  - Events and RTC maintained through power failure

MEMORY CAPACITY

- Up to 3M cardholders/credentials
- Configurable 3M Event Buffer
- Manage up to 256 readers per controller or Cluster
- 1,000 Access Levels per controller
- 100 Access Levels per cardholder/credential
- 256 Card Formats
- 256 bits Max Card Number Size
- 2TB micro-SD Card storage

NETWORK AND HOST

- Onboard Web-Server for board configuration
- Host-initiated or controller-initiated connections
- Up to 5 concurrent Host connections
- Certificate and IP-based connection authentication
- IPv4 / IPv6 (Static or DHCP)
- SNMP

INTUITIVE SOFTWARE INTERFACING

- Backwards compatible with existing SDK integrations
- Server, Cloud, and Embedded Integration options
- Multi-lingual SDK; C/C++, dotNET, Java, Python
- Sample Host application provided
- Available tutorials, code snippets, & open-source example applications to accelerate integration

GENERAL INFORMATION

- **Operating temperature**
  - (0°C to +70°C)
- **Dimensions:**
  - 8in (203.2mm) x 6in (152.4mm) x 0.88in (22.35mm)
- **Weight:**
  - 0.58 lbs. (263g)

·SKU: 801370

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