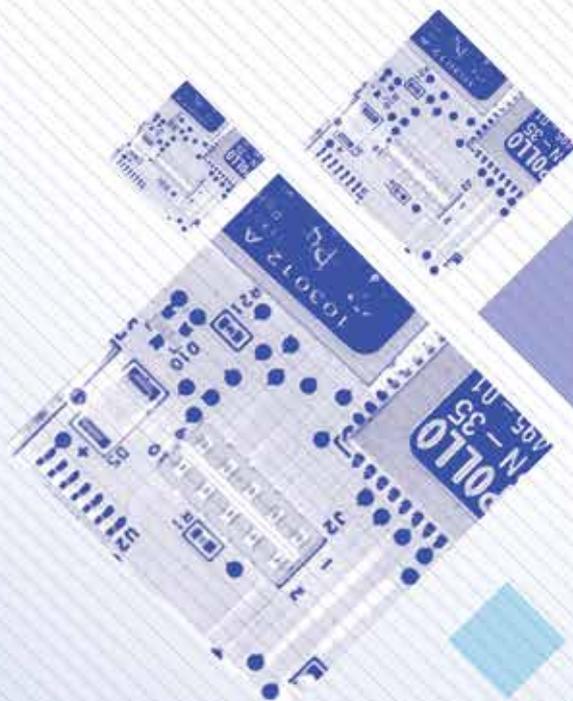# PRODUCT GUIDE

CLUSTERING CONTROLLERS

Integrated controller/reader interface device with high functionality and network clustering. Programmable functions to provide possibility of post-factory customization.

MODEL	CAPACITY	ACCESS LEVELS	COMMUNICATION	MEMORY	DIMENSIONS
ASP-4 4 Native Readers 16 Expansion Readers 128 Reader Cluster	250,000 Cards 100,000 Events	300 Access Levels 50 ALs Per Card	Dual 10/100 LAN RS485	512 MB NAND 256 MB DRAM	8x6x1.0 in 20.3x15.2x2.54 cm
Clustering capability for up to 128 readers provides intra-device configuration, programming and cardholder status. Multi-function access, alarm, elevator control. Embedded scripts for non-standard functions and integration to 3rd party devices/ protocols. Fully encrypted comms. ODSP Secure Channel.					

MASTER CONTROLLERS

System controllers that support reader interface and alarm devices. Robust feature set, full database storage for high security systems.

MODEL	CAPACITY	ACCESS LEVELS	COMMUNICATION	MEMORY	DIMENSIONS
AAN-100 96 Readers	up to 1.2M Cards 65,535 Events	256 Access Levels 38 ALs Per Card	LAN, RS-232, RS-485	1 MB Standard 8 MB Max	7.5x5.5x1.0 in 19x14x2.54 cm
Anti-passback (complex), Timed Anti-Passback, Auto-Activation/Deactivation, Internally Stored IF/THEN, FIPS Credentials, Precision Access/Exclusion, Advanced Escort, Encrypted Communication. Network device/hybrid serial capable.					
AAN-32 32 Readers	up to 297,00 Cards 65,535 Events	256 Access Levels 38 ALs Per Card	LAN, RS-232, RS-485	1 MB Standard 2 MB Max	7.5x5.5x1.0 in 19x14x2.54 cm
32 Reader version of AAN-100 with full feature set. Full network device support.					

INTEGRATED CONTROLLERS

Standalone controllers with built-in reader connections. Essential feature set and offline operation, best for remote sites or basic installations.

MODEL	CAPACITY	ACCESS LEVELS	COMMUNICATION	INPUTS/OUTPUTS	DIMENSIONS
AAN-4 4 Readers/4 Doors	up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	4 Auxiliary Inputs 4 Auxiliary Outputs	7.5x5.5x1.0 in 19x14x2.54 cm
Hard/Soft Anti-passback, Mantrap support, Fast Turnstile Mode, Door Bolt Monitoring, Time Zone Control, Two-man rule, Tamper alarm, PIN Support, Extended Strike Timer					
AAN-2 2 Readers/2 Doors	up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	1/2 Auxiliary Input 0/1 Alarm Out unpaired/paired mode	7.5x4x1.0 in 19x10.16x2.54 cm
Full feature set of AAN-4 with support for 2 doors with a 1 reader each or 1 door with an entry and exit reader					
AAN-1 2 Readers/1 Door	up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	2 Auxiliary Input 1 Alarm Out	7.5x4x1.0 in 19x10.16x2.54 cm
Full feature set of AAN-4 with support for 1 door with an entry and exit reader					

ACCESSORIES

Upgrades and replacements for AAN Series Controllers.

MODEL	
ASM-48	Plug-in, field replaceable, RS-485 communication driver
AME-20	2 MB memory module for AAN-100/32 controllers
AME-10	1 MB memory module for AAN-100/32 controllers

READER INTERFACES

Connection modules for readers and door hardware that connect to master controllers. Equipped with local memory for offline operation.

MODEL	CAPACITY	ACCESS LEVELS	COMMUNICATION	INPUTS/OUTPUTS	DIMENSIONS
AIM-4SL 4 Readers/4 Doors	up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	4 Auxiliary Inputs 4 Auxiliary Outputs	7.5x5.5x1.0 in 19x14x2.54 cm
Hard/Soft Anti-passback, Mantrap support, Fast Turnstile Mode, Door Bolt Monitoring, Time Zone Control, Two-man rule, Tamper alarm, PIN Support, Extended Strike Timer					
AIM-2SL 2 Readers/2 Doors	up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	1/2 Auxiliary Input 0/1 Alarm Out unpaired/paired mode	7.5x4x1.0 in 19x10.16x2.54 cm
Full feature set of AIM-4SL with support for 2 doors with a 1 reader each or 1 door with an entry and exit reader					
AIM-1SL 2 Readers/1 Door	up to 20,000 Cards 7,000 Events	38 ALs Per Card	LAN, RS-485	2 Auxiliary Input 1 Alarm Out	7.5x4x1.0 in 19x10.16x2.54 cm
Full feature set of AIM-4SL with support for 1 door with an entry and exit reader					

ELEVATOR INTERFACES

Elevator control modules for control of up to 32 floors. Alternate use for muti-door/gate control.

MODEL	CAPACITY	FLOOR SUPPORT	COMMUNICATION	INPUTS/OUTPUTS	DIMENSIONS
AIM-1ELE	1 Elevator Reader	32 Floors (w/ 4 AEL)	LAN, RS-485	Comm Loop Out	7.5x4x1 in 19x10.1x2.5 cm
AEL-12	8 Floor Control	8 Floors	20 mA Loop to AIM-1ELE	Comm Loop In 8 Control Relays	7.5x4x1 in 19x16.2x2.5 cm
AP-HLI	Direct network interface module for Otis CompassPlus and Kone Polaris Destination Control Systems. Full network level integration with no relay/input wiring required.				

ALARM PANELS

Alarm Input/Output modules for integrated monitoring and annunciation. Direct integration platform for intrusion, fire and control systems.

MODEL	INPUTS	OUTPUTS	COMMUNICATION	FEATURES	DIMENSIONS
AIO-168	16	8	LAN, RS-485	Entry/Exit delay, Mask Time Zone, Zone-Output Linkage	7.5x5.5x1 in 19x14x2.5 cm
AIO-16	16	-	LAN, RS-485	Entry/Exit delay, Mask Time Zone	7.5x5.5x1 in 19x14x2.5 cm
AIO-8	-	8	LAN, RS-485	Configurable Relay Pulse	7.5x5.5x1 in 19x14x2.5 cm
ARM-8	-	8	TTL Plug-in Connector		Direct mount on AIO device.

RELAY MODULES

High security relay modules that eliminates insecure wiring issues found in many access control systems.

MODEL		
ADA-11		Secure digital strike relay module for strike, alarm or auxiliary function. Protects reader interface to strike wiring from tampering for high-security installations.
ADA-10		Secure digital strike relay module for strike, alarm or auxiliary function. Weather-resistant. Protects reader interface to strike wiring from tampering for high-security installations.

READERS - PROXIMITY

Contactless card readers.
Contact your Apollo Representative for a full line of supported card readers including Smart Cards.

MODEL	TECHNOLOGY	COMMUNICATION	FEATURES	POWER	DIMENSIONS
multiCLASS SE RPK40 HID	iClass SE, MIFARE, HID Prox	Wiegand, OSDP, RS-485	Multiple technology, Keypad	5-16 VDC 95mA average	3.3x4.8x1.1 in 8.5x12.2x2.8 cm
P-300 FARPOINTE DATA	Pyramid Series HID Prox	Wiegand	Up to 6" Range, Mullion Mount	5-14 VDC 45mA typical	3.2x1.7x0.7 in 8x4.3x1.7 cm
ARC-A STid	Mifare DESFire EV2	Wiegand, OSDP, RS-485	Customizable Design, Modular Upgrades, 360 color LED	7-28 VDC 100mA average	4.1x 3.2x0.9 in 10.7x8.0x2.6 cm

READERS - BIOMETRIC

Readers utilizing human characteristics for increased identity certainty.
Template storage available with APACS software Biometric Features and on ASP Controllers.

MODEL	TECHNOLOGY	COMMUNICATION	FEATURES	POWER	DIMENSIONS
BioStation 2 SUPREMA	Fingerprint HID Prox iClass DESFire	LAN RS-485	500,000 Template, LCD Display IP65	12 VDC, PoE	5.3x5.03x 1.9 in 14.5x14.5x45 cm
MorphoAccess Sigma IDEMIA	Fingerprint HID Prox iClass DESFire BioPIN	LAN RS-485 WiFi 3G	100,000 Template, Touchscreen Display NFC	12 VDC 500mA, PoE	6x5.9x2.3 in 153x151x58.5 cm
HandKey II SCHLAGE	Hand Geometry	LAN RS-485	Up to 250,000 templates, LCD Display	12-24 VDC	11.65x8.85x8.5 in 29.6x22x21.7 cm

READERS - SPECIAL USE

Specially designed readers for use in construction, oil & gas, petrochemical and other industries where security and safety are paramount.

MODEL	TECHNOLOGY	COMMUNICATION	FEATURES	POWER	DIMENSIONS
AP-Mobile	HID Prox iClass Mifare	Wi-Fi 4G	Full Offline Database w/ Access Levels & Photos	4500ma wireless charging battery	6x4x.75 in 15.2x7.9.1x1.5 cm
ATX Series STid	Proximity Mifare Desfire UHF	Wiegand RS-485	GUB Ex II 2 GD Area Certified	7-28 VDC 150mA typical	12.2x10.63x6.89 in 31x27x17.5 cm

REFERENCES

- US Nuclear Power Plants; European power & research sites
- National Laboratories in US & Canada
- Military facilities in US, Iraq, Afghanistan and other countries
- 6 of the top 10 global pharmaceutical companies
- Top container shipping and worldwide delivery companies
- Seaports in Europe, Africa and Asia
- Major healthcare facilities in US, Singapore, GCC
- Top market share of access control in CIS
- High profile Oil & Gas installations including one of the longest pipelines, largest GTL plant and many key production sites
- Kashagan, South China Sea, South America, North Sea and Middle East/Africa Oil & Gas facilities
- Banking facilities including several national reserve and engraving and printing facilities
- Major transportation sites including metros and railways
- Airports including Moscow area, US, Middle East, Africa

POWER SUPPLIES

Heavy duty steel enclosures with power supply and distribution board.
Available in configurations with or without backup battery.

MODEL	OUTPUT	INPUT	FEATURES	BATTERY	DIMENSIONS
APU-1210	13.8 VDC 10.5A (13.3 VDC 0.5A Batt. Charge)	100-240 VAC 2.5 A 50/60Hz	Power Dist. Board, Tamper Switch, LED Status	12Ah Sealed Lead	18" x 16" x 5" (45.7 x 40.6 x 12.7 cm)
AUS-1204	13.8 VDC 3.8A (13.3 VDC 0.3A Batt. Charge)	100-240 VAC 1.6 A 50/60Hz	Power Dist. Board, Tamper Switch, LED Status	12Ah Sealed Lead	13" x 13" x 4.5" (33.02 x 33.02 x 11.43 cm)

APOLLO TOTAL SYSTEM SOLUTION

Apollo not only manufactures access control and alarm products, but also provides an extensive line of complementary security and integration products. The Product Guide contains only a sample of the complete line of accessories we supply. Contact your Apollo sales representative for information and pricing on locks, request to exit devices, additional biometric readers, wireless communications, redundant servers and other products.

A major advantage of sourcing complete systems from Apollo is that they are tested by Apollo personnel for compatibility with Apollo systems. Apollo support personnel can provide guidance with the installation and support of products purchased from Apollo.

SENSORS

Environmental and industrial sensors for integration into Apollo systems via APACS OPC interface.
Monitor server rooms, manufacturing and other areas and control ACS devices in response.

MODEL	TYPE	SENSOR	FEATURES	POWER	DIMENSIONS
iTHX-SD NEWPORT	Temperature, Humidity, Dewpoint	Standard Wand Probe (8in/20.3cm)	Web Server, 2 Relay Outputs, Virtual Chart Recorder	9-12 VDC @ 200mA	10.6 x 3.25 x 1.4 in (27 x 8.3 x 3.6 cm) (w/ probe)
iSD-TC NEWPORT	Temperature, Analog Sensor	(2) Type K Thermocouples (36in/1m)	Web Server, 2 Relay Outputs, Virtual Chart Recorder	9-12 VDC @ 200mA	5.1 x 3.4 x 1.3 in (13 x 8.8 x 3.3 cm) (chassis only)
iBTX-W NEWPORT	Barometric Pressure, Temperature	Standard Wand Probe (6in/15.2cm)	Web Server, 2 Relay Outputs, Virtual Chart Recorder	9-12 VDC @ 200mA	10.6 x 3.25 x 1.4 in (27 x 8.3 x 3.6 cm) (w/ probe)

SYSTEM SOFTWARE

MODEL

APACS PRO

APACS Pro comprises an advanced security management software package. Integrates access control with digital and analog video equipment, visitor management systems, HVAC and lighting control systems, public address and paging systems. APACS Pro's Reaction mechanism provides a powerful programming interface for unlimited integration possibilities. Includes all features of APACS Standard.

- DVR/CCTV Control
- HVAC & Building Control (via OPC)
- Reaction/Message Mask Mechanism for advanced software control of hardware and software
- Customized graphic maps with custom icon feature to display actual hardware status
- Per-operator system access rights for restriction of monitoring/ control to only desired system segments

- Live Video Verification
- Unlimited system access levels (255 per controller)
- Unlimited Client and Hardware support
- Cardholder templates for easy cardholder enrollment.
- Assign access levels automatically by cardholder group
- 38 Access Levels per card / 8 card formats per device

APACS STANDARD

Full featured system control with the capability of displaying events and state of hardware on interactive graphical maps at the guard station. For easy card issuing, full featured badge design and magnetic card encoding.

- Advanced badge designer with dual side printing
- Powerful image processing for automatic resizing and color adjustments
- Central biometric template storage. Smart template distribution. Concurrent multiple template types
- Advanced Anti-Passback support with nested areas, occupancy triggers and manual movement
- Active directory/Windows single sign-on

- Extensive context-sensitive help files in all modules
- Unlock/lock & arm/disarm by schedule, manually or in response to system events
- Intelligent download of cards & access levels to devices for maximum memory efficiency
- Support for turnstiles, man traps, lockout doors and monitored door bolts
- Supported Languages: English, Spanish, French,
- Portuguese, Hebrew, Chinese, Arabic, Polish, Turkish

APACS M32

Full featured version of APACS Professional limited to a maximum of 32 devices. Ideal for smaller systems that need enterprise features at a lower price point. Installations can be easily upgraded to unlimited hardware support with purchase of a full version license.
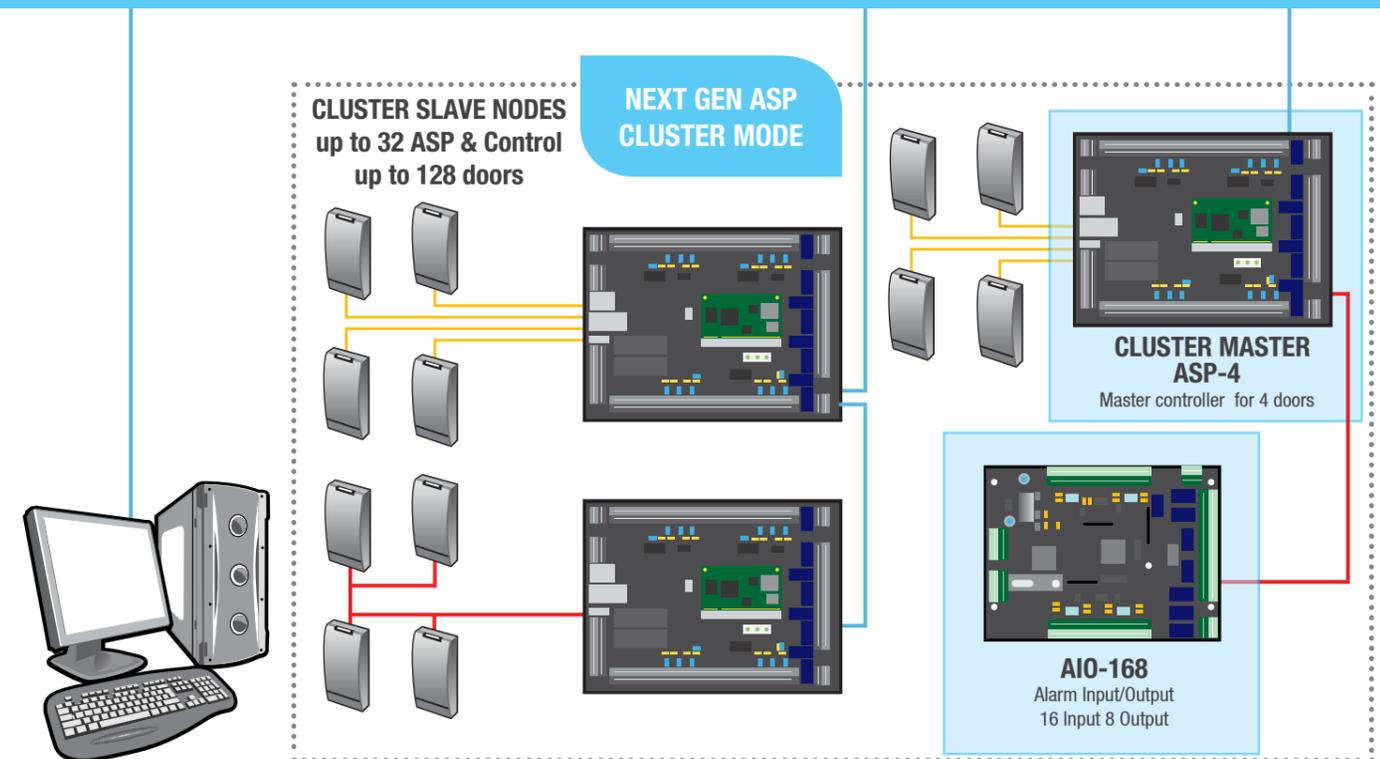
APACS - CORE FEATURES

LINKAGES

APACS offers multiple mechanisms for IF...THEN programming for custom actions to extend the functionality of the Access Control System. Hardware embedded functions can provide fast, reliable control, arming/ disarming and annunciation during normal operation as well as when communication is degraded. Software based features can send emails during system alarm events, control external programs and prompt operators for desired actions based upon system state and alarm conditions.

BADGING

A full featured badge design editor allows multiple graphic layouts for user badges with easy dual side printing and card encoding. Images to be printed can be imported or made from scratch using the powerful WYSIWYG editor. Cardholder images and personal information are taken directly from the database for inclusion on the printed badge. Designs can be automatically assigned based on a cardholder's group.

ANTI-PASSBACK

Abuse of card policies can be prevented by flexible anti-passback rules that prevent multiple users gaining access with a single card. Access may be denied or an alert sent to guard stations in order to take proper action. Location of cardholder can be monitored live as they move between areas and areas can be locked for safety or security reasons. Area occupancy can automatically control areas based on min/max persons.

VISITOR MANAGEMENT

Manage flow of temporary cardholders and contractors on-site with simple enrollment directly through the APACS application or via a web interface allowing all users in an organization to submit visitors and appointments. Track visitors on-site, quickly identifying location and violators of allowed visit duration. Advanced escort rules allow access only when accompanied by a designated employee or guard.

GUARD TOUR

Utilize existing ACS hardware for a full featured guard tour system without the need to purchase additional equipment. Progress of guards on prescribed rounds can be tracked by using readers and alarm inputs. Failure of guard tours can be programmed to automatically notify supervisors or sound system alarms.

APACS - OPTIONS

UNIVERSAL VIDEO

APACS Universal Video Interface integrates video recorders from multiple vendors in a common program interface. Combined with APACS messaging, video events bring an extra dimension to tracking history by retrieving associated video with just a mouse click. After the fact reporting links video with alarm and access events for easy investigations. Operators get easy access to live views from map icons and automated pop up windows during important events. All this can be combined with a wide choice of DVRs, NVRs and IP Cameras for a truly flexible system. Supports Samsung, Salient, Samsung, Panasonic, Bosch, Pelco, Hikvision, Verint, Vicon, Milestone, Avigilon, Infinova, FLIR and Wavestore.

OPC CLIENT

APACS OPC Client features connect to process and control systems with integrated monitoring and control of the entire site in one place with a customizable easy to use interface. Monitor OPC Servers to get constantly updated information on all types of devices including HVAC, lighting, pumps, power meters and more. See alarms and messages in APACS with OPC Alarm & Events or customize your own alarm thresholds for Data Access items and events will be automatically generated. Control devices on your OPC network by easily writing tag item values. Associate control tags with any OPC item and define automatic reactions in response to events. Paired with gateway software, BACnet, Modbus, LonWorks, SNMP, KNX and more are possible.

BIOMETRIC TEMPLATES

APACS Biometric Extensions make handling advanced credentials easy by seamlessly integrating biometric enrollment into the card management interface your users are already familiar with. Configurable options for all functions means easy installation of biometric enrollment readers and quick setup of access readers. Save memory and enhance security by downloading templates only to readers where an access level allows a user to enter. Support for multiple template types concurrently including Suprema, Idemia MorphoAccess and Schlage hand geometry. Using standard OSDP protocol, templates can be stored on ASP Series Controllers.

ETHERNET

CLUSTER SLAVE NODES
up to 32 ASP & Control
up to 128 doors

NEXT GEN ASP CLUSTER MODE

CLUSTER MASTER ASP-4
Master controller for 4 doors

AIO-168
Alarm Input/Output
16 Input 8 Output

ASP SERIES - NETWORK CLUSTERING CONTROLLER

The New ASP Series of controllers from Apollo represents a leap beyond traditional Access Control and Alarm Monitoring by providing a multi-functional device that can provide diverse functions as well as advanced door control features.

Using standard IT LAN/WAN connections to create a cohesive, autonomous entity that manages access and security for an entire building, the ASP-4 can be clustered with up to 31 other ASPs to support an industry-leading 128 doors in a single management unit. This has the advantage of faster more dependable inter-device commands as well as ability to continue normal operation in case of loss of communication on parts of the network. Post-factory customization of functions and integrations is also possible.

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