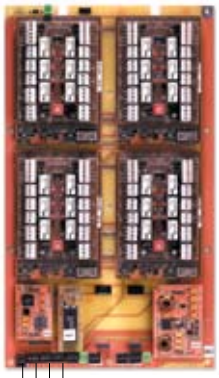
AC-1200
Controller Series

Sielox

Ideal for new installations or system upgrades
Unmatched modularity
Distributed architecture with enhanced system features
Easily expands system capability

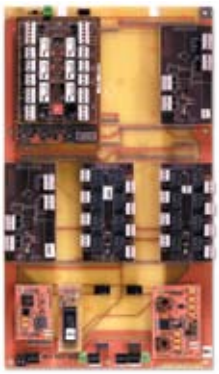
AC-1200
8-Door Controller



AC-1200
I/O Controller

Add up to 4 I/O Controllers (one for each TC)

AC-1200
2-Door I/O Controller



AC-1208

AC-1200 Controller Series

The AC-1200 Controller is a 32-bit design offering unmatched modularity. There are two basic configurations: an 8-door controller with up to four optional I/O controllers or a 2-door I/O controller for a mixture of reader and I/O support on a single board. The AC-1208 expands the portfolio to include 2-door and 4-door offerings in a compact design.

Features:

- **2 to 16 Door Controller Units**—Add 2-Door Terminal Controller modules, each with 4 inputs and 4 outputs, as needed on up to 2 backplane assemblies per enclosure
- **I/O Expansion Board Option**—Expand with an additional combination of up to 56 Inputs or 56 Outputs
- **Fully Distributed Design**—Leverage local independent grant or deny decision-making
- **Auto-Configuration**—Automatically detect and configure individual Terminal Controller modules within Pinnacle
- **Programmable Flash ROM**—Upgrade firmware without chip replacement
- **Maintenance Port**—Perform infield diagnostics and updates using the onboard serial port
- **Legacy Upgrade Path**—Convert 8-bit and 16-bit Sielox Controllers with AC-1208 kits

AC-1200
Controller Series

Product Specifications

General

Backplane Dimensions
AC-1200: 14.95" x 8.60" (37.9 cm x 21.8 cm)
AC-1208: 10.50" x 8.65" (26.7 cm x 21.9 cm)

Power Requirements
11.5VDC min/18VDC max, 5 amps (each backplane)
2.9 amps sustained max without readers[1]

Operating Conditions
0° to +50° C; 90% relative humidity, operating (non-condensing)

Battery Backup
Retains RAM memory and real-time clock operation for up to 8 hours

Terminal Controller (TC) Modules

2-Door TC Modules
Supports two doors with four inputs and four outputs

Capacity
32-bit CPU with storage for 10K buffered events; for 26-bit cards, up to 50K cards with one access level per cardholder or 25K cards with three access levels per cardholder (card type and use of PIN dependent)
Access Levels: 256 per TC[2]
Time Zones: 64 per TC (2 fixed as "never" and "always")

Expansion Input Module
Provides eight user-defined inputs

Expansion Output Module
Provides eight user-defined outputs

Devices

Doors
Each door includes door strike output, door switch input, and request-to-exit input

Readers
Supports all standard industry formats, including Performa® and Mirage® proximity and others currently supported by Sielox controllers

Inputs
User-defined dry contact relays with supervision

Outputs
User-defined SPDT dry contact relays, 2A max at 24 VDC or 24 VAC

Cables

RS-485
Shielded dual twisted pair, 22 AWG (4,000 feet maximum) Belden 8723

RS-232C
Shielded nine conductor, 22 AWG (20 feet maximum)

Readers/Keypads
Shielded five conductor, 18 AWG (500 feet maximum) West Penn 3280

Inputs
Shielded twisted pair, 22 AWG (500 feet maximum) Belden 8761

Between Backplanes
Shielded twisted pair, 22 AWG (50 feet maximum) Belden 8723

[1] Sustained power consumption breakdown:
Each CPU Module = 325mA
Each Reader Module = 350mA
12V Power Converter Module = 70mA
5V Power Converter Module = 20mA
RS-485 COM Module = 110mA

[2] Pinnacle further supports (i) access levels sent to each controller in order of priority, on an as-needed basis, per the capacity stated and (ii) server authorized enhanced assists for cardholder access levels of lower priority

Rev 03.01.06

AC-1200 Backplane Configurations

Base Configurations without I/O Expansion

	TC Modules	Doors	Inputs / Outputs
2-Reader: AC-1200-RC2	1	2	4 / 4
8: Reader: AC-1200-RC8	4	8	16 / 16
2-Reader I/O Special: AC-1200-RIO	1	2	4 / 4

Total Possible on a Single Backplane

	TC Modules	I/O Modules	Doors	TC Inputs & Outputs	I/O Expansion Inputs or Outputs
2-Reader: AC-1200-RC2	1	0	2	4 / 4	0
plus 3 x AC-1200-REK	3	0	6	12 / 12	0
= 8-Reader: AC-1200-RC8	4	0	8	16 / 16	0
For above I/O expansion: AC-1200-IO7	0	7	0	0	56
2-Reader I/O Special: AC-1200-RIO	1	4	2	4	32

Accessory modules for use with indicated backplane assemblies: 2-door Terminal Controllers (TCs), and Input and Output expansion kits

Additional accessories: Power supply options, power regulators, battery kit, enclosure, and backplane mounting hardware

Up to two backplanes can be added to a single enclosure; multiple backplanes can be mounted in larger NEMA or Hoffman enclosures

AC-1208 Controller Panels (all include battery kit, power regulator(s), and enclosure)

Configurations without I/O Expansion

	TC Modules	Doors	Inputs / Outputs
2 Reader: AC-1208-RC2	1	2	4 / 4
4-Reader: AC-1208-RC4	2	4	8 / 8

Configurations with I/O Expansion

	TC Modules	I/O Modules	Doors	TC Inputs & Outputs	I/O Expansion Inputs or Outputs
2 Reader & I/O Board (I/O Board only for future expansion): AC-1208-RIO	1	0	2	4	0
2-Reader & I/Os: AC-1208-RIC	1	4	2	4	32

Retrofit configurations available for AC-300 legacy replacements

Accessory modules for use with indicated backplane assemblies: 2-door Terminal Controllers (TCs), and Input and Output expansion kits

Sielox
170 E 9th Ave
Runnemede, NJ 08078

800-424-2126 Toll Free
856-939-9300 Phone
856-939-9309 FAX
www.sielox.com