

# 1700

## Intelligent Control Panel

The 1700 is an intelligent access control panel that is expandable and serviceable unlike any other on the market. As part of the Sielox Core Products line, the 1700 is designed by Sielox engineers and manufactured in the USA. The marriage of an advanced controller with management software from a single vendor has been a proven technology and application success since 1979. Both Pinnacle and AnyWare software and the 1700 controller have been developed to meet or exceed any user requirement from entry level to enterprise-wide systems.

Built upon the Sielox access control innovation legacy of more than 40 years, the 1700 is an intelligent, fully distributed controller ensuring decisions even if communications have been interrupted. Incorporating 32-bit, field-programmable gate array (FPGA) technology with real-time operations, the 1700 Controller provides the ultimate in speed, performance and reliability ensuring long term investment protection.

The 1700 is a true IP solution with data transfer rates up to 100 mbps to the on board processor and can be connected directly to a network, saving companies money on both wiring and installation costs. With connectivity to Allegion Schlage and Von Duprin or ASSA ABLOY Aperio wireless locks, up to 34 doors can be controlled from a single 1700. Advanced features for Allegion and ASSA ABLOY wireless locks include Two-Man Rule and Lock Toggle.

The 1700 features a removable Secure Digital (SD) memory card, with storage capacity up to 1 GB. The SD card houses a redundant controller configuration, cardholder database, events, and maintenance logs, wiring diagrams, installation manual and more. This feature enables quick installation startup and rapid instantaneous controller configuration recovery reducing down time and lengthy downloads.



**Every controller is fully distributed**

**One controller for any application and interchangeable anywhere in network**

**Up to 34 doors (2 hardwire/32 wireless Schlage, Von Duprin or ASSA ABLOY locks)**

**Door lockdown / Block readers**

**Push new firmware to Terminal Controllers**

**No limit to facility codes**

**SD memory card stores back up of database**

**Expandable up to 60 I/O**

**Web interface for diagnostics and troubleshooting**

**100Mbps processor for fast downloads and refreshes**

**128-bit HID PivClass reader support**

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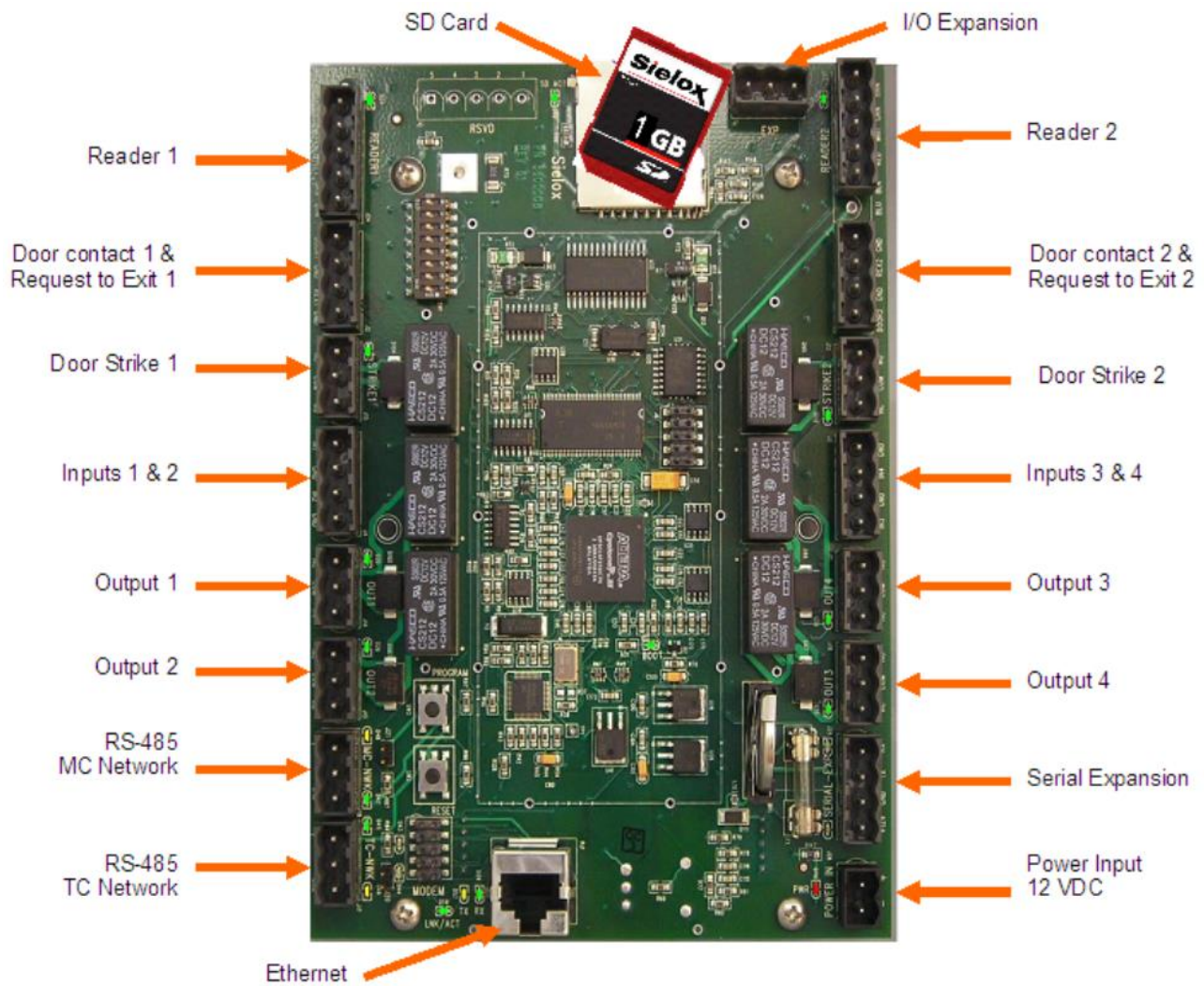
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## Maximize uptime with intelligent design

Installers and Service Technicians understand the need for serviceability when stepping foot onto a client's premises. End-users want their system up and running, period. The 1700 is designed with uptime in mind.

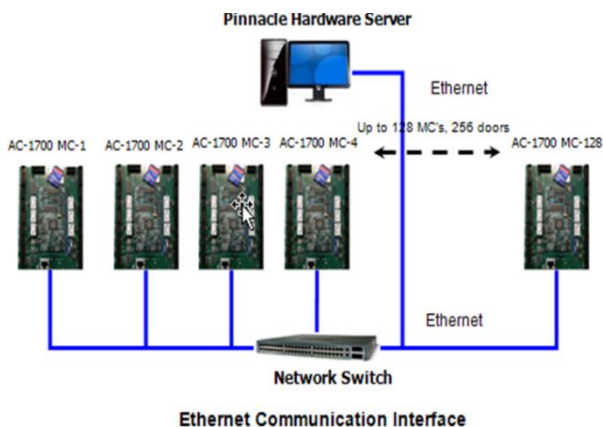
With a remote diagnostics port and a Secure Digital (SD) memory card that saves databases, configurations, manuals and more, the 1700 minimizes downtime with information on-site to make decisions. The controller can be rebooted remotely to avoid costly service calls and the true IP connection speeds provide quicker downloads and refreshes of databases in minutes, not hours. Even the socketed relays are field replaceable.

1700 - it's the one controller that installers and service technicians want, and that end users need.





*The 1700 includes 4 supervised or unsupervised inputs and 4 auxiliary outputs with field replaceable relays, expandable via daisy chain up to two 170 I/O expansion boards per 1700 controller.*



Two Controllers in one mean fewer components to specify, install, and stock for service

New firmware updates can be pushed from the Main Controller to downstream Terminal Controllers over the RS-485 connection, saving time and money

Allegion Schlage ONR Firmware updates can be pushed remotely from the Main Controller to connected Schlage devices including AD400, AD300, NDE, LE, RU/RM, PIM400-485 and Gateway 485 over the wireless lock RS-485 connection.

Two Readers, two locks, two door position switches and two request to exit devices and 4 auxiliary inputs and 4 programmable outputs

Serviceability via Secure Digital (SD) memory card storage of manual, configuration and database.

Maintenance Port for on-site or remote diagnostics and firmware updates using the onboard web based port.

Communication Ethernet with AES 256 encryption and RS-485

Multi-card, multi-reader

Card formats include FIPs 201, Standard 26-bit Wiegand, Sielox format, HID Corporate 1000, iClass, ANSI Wiegand, Custom Wiegand up to 40 bits, Mifare

Reader types – any reader communicating with Wiegand

2 to 8 Door Enclosures with 12/24v UPS battery back up

Coin Battery – Powers Real Time Clock

Programmable Flash ROM

POE Extractor Module (NPE130) – to provide up to 30 watts of power and data to Controller



## Product Specifications

Controller Dimensions: 5" x 7" (12.7 cm x 17.78 cm)

Power Requirements: Input Voltage: 12 VDC, 350 mA for the 1700 controller, does not include reader power consumption.

Operating Conditions: Temperature 0° to +50° C; Relative humidity 90% operating (non-condensing)

Certifications: FCC part 15; ETL certified for UL 294 and UL 1076

POE Extractor Module (NPE130) – Compatible with 1700 to provide up to 25 watts of power and data to Controller. Modules purchased separately as needed.

## Main Controller (MC)

Capacity: Web Maintenance Port, Maintenance Log, PDF Installation Manual, Regional Anti pass back of all 16 TC2, Regional I/O linking of all 16 TCs

Communications: Ethernet with AES 256 encryption and RS-485 for terminal controller network.

## Terminal Controller (TC)

2-Door TC Modules: Support for Two Readers, two locks, two door position switches and two request to exit devices 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

Time Zones: 64 per TC - (2 fixed as "never" and "always")

Lithium Battery: Maintains real time clock operation for more than 2 years.

## Devices

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

Readers: Supports all standard Wiegand readers, including Performa® and Mirage® proximity and others currently supported by 1700 controllers.

Inputs: User-defined inputs with up to 4 state supervision

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

Wireless Locks – 1700 Main Controller supports up to (16) Salto Sallis or (32) Schlage AD300/400 series locks.

## Cables

Ethernet: CAT-5 or CAT-6

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

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

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

Outputs: Application dependent



Innovative Security Management Since 1979



Sielox Layered Security Systems provide a smart way to protect people, property and assets with the highest levels of performance, reliability and cost-efficiency. Since 1979, Sielox has built its expertise working with integration partners and end-users in all types of facilities. Our "Made in USA" lockdown solutions include the AnyWare Browser-Based Access Control Solution, CLASS Crisis Lockdown Alert Status System, 1700 Intelligent Controller and Pinnacle Advanced Access Control Software integrated with leading manufacturer wireless locks.

