

Card-Connected™ C5

Card-Connected C5 module for access control systems

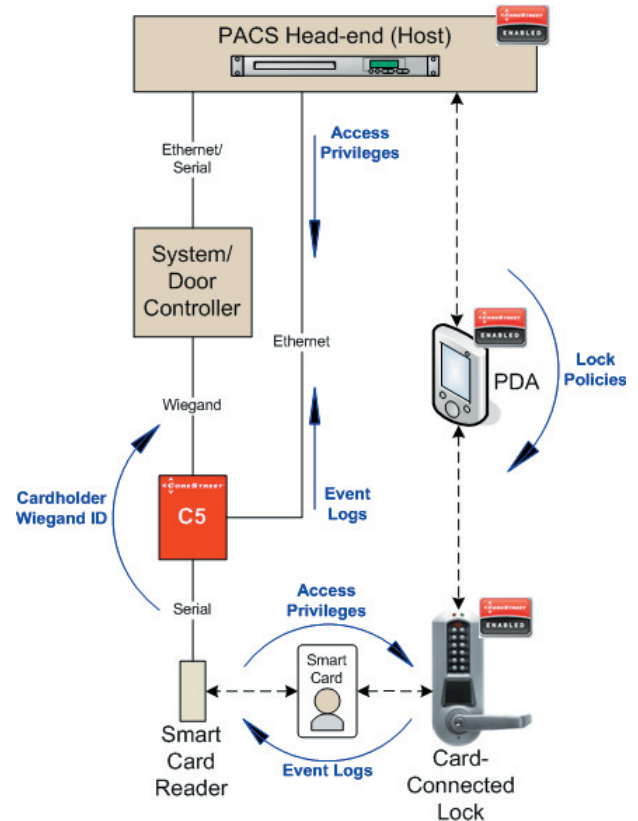
Overview

CoreStreet's Card-Connected C5 (C5) is a hardware module that updates Card-Connected data on smart cards and enables the access system for use with Card-Connected locks, as shown in the diagram to the right. Installed at access points that cardholders visit prior to reaching Card-Connected locks such as the front door, the C5 updates data on a smart card before sending the cardholder's ID to the door controller. For easy integration into access control systems, the C5 provides a standard Wiegand output for connection to a reader port on a door controller.

The C5 functions as follows: It receives Card-Connected data (digitally signed cardholder privileges) from the host and sends Card-Connected lock event logs, retrieved from smart cards, to the host. When a smart card is presented to the attached reader, the C5 reads and writes Card-Connected data to the card before sending the cardholder ID to the access control system panel. The access control system makes the access decision and performs all door related operations including releasing the door strike and sending the event log to the host.

Features

- Writes digitally signed privileges and a Hot Refresh List (HRL) to cardholder smart cards (for use at Card-Connected locks)
- Reads Card-Connected lock event logs from cardholder smart cards and sends them to the host
- Standard Wiegand output for easy integration with existing access control panels
- Supports DESFire and MIFARE cards
- Solid state hardware device (no moving parts)
- Up to 8 GB non-volatile memory (SD Card)
- Real-time clock with battery back-up
- Removable terminal blocks for connections
- Dedicated inputs for tamper and power failure detection



Card-Connected Access Control system architecture

- Status LEDs for power, tamper, power failure, and communication with host, readers, and access control system door controller
- Operates offline if communication with host is lost
- Firmware update over network (from host)

Security

- All TCP ports closed except a single port that accepts requests only from host IP address after authentication
- Communicates with the host via AES encryption over Ethernet TCP/IP
- Validates digitally-signed data on smart cards to authenticate and check integrity

Specifications

- Input Power: 8-30 Vdc, 350 mA
- Output Reader Power: 12 Vdc, 125 mA (Maximum)
- Communication Ports to:
 - Host – Ethernet TCP/IP (Optional AES Encryption)
 - Smart Card Readers – Two (2) Serial Ports
 - Access Control System Reader Interface Module – Two (2) Wiegand Ports (Data1/Data0)
- Board Size: 5.5 x 6.5 in. (13.97 x 16.51 cm)
- Environmental Range: 0°C to 70°C (32°F to 158°F); 0 to 95% RHNC; Indoor Only
- UL 294 listed (in process)
- CE marked (in process)
- FCC Class A compliant (in process)

Availability

To learn more about Card-Connected solutions, visit our website at www.corestreet.com/cc or contact us at +1 617.661.3554 or info@corestreet.com.



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