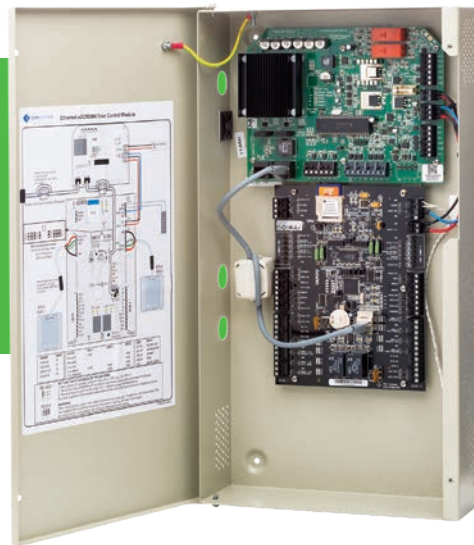


eDCM 380

Intelligent two door controller supporting CEM sPass DESFire Readers

Features that make a difference:

- Intelligent two door controller supporting CEM sPass DESFire smart card readers
- Onboard 10/100Mbps PoE+ Ethernet connectivity to power door equipment via a single CAT5e/6 cable - no local mains required
- Communicates directly with the central AC2000 access control system
- Database supports 200,000 cardholder records for off-line card validation
- Reader communications via encrypted RS485
- Eight monitored inputs (four available per door)
- Four outputs (2 per door)
- Self resetting fuses; saves maintenance time
- Onboard LED provides visual status information
- Dedicated tamper input
- A supervised input can be mapped to a physical output
- Suitable for use with AC2000 access control suite of products
- Requires Pihong Midspan injector



The eDCM 380 (Door Control Module) is a low cost, two-door controller designed to interface to CEM sPass DESFire smart card readers and the CEM range of access control systems.

The eDCM 380 features Power over Ethernet Plus (PoE+) connectivity. Working in conjunction with a Pihong PoE+ Midspan power injector between the network and the door, the eDCM 380 can power door furniture and two maglocks via a single CAT 5e/6 network cable. PoE+ also has the benefit of eliminating the need for an external local mains power supply at the door. This is particularly beneficial where local power is not readily available or where cabling must be kept to a minimum. Using just a single Cat 5e/6 cable to power the door(s), the eDCM 380 unit can offer significant cost savings.

Using a powerful 32bit processor, the eDCM 380 has a large internal database that can store up to 200,000 cardholder records. This gives full off line card validation and decision making capability at the point of entry, when host communication is not available. Up to 50,000 off line transactions can be recorded.

The eDCM 380 supports CEM sPass DESFire smart card readers via encrypted RS485 interface.

The eDCM 380 supports two door configurations. It can either be configured for one sPass reader on each separate door, with optional Exit push buttons, or can be configured to support two sPass readers (an Entry/Exit configuration) for bi-directional control on a single door.

The eDCM 380 has integral battery backup management with connections to trickle charge a backup battery (12v 7Ah). The controller is also fitted with PoE Fail input sensors. The unit auto restarts when power supply is restored.

Onboard card reading technologies

The eDCM 380 supports CEM sPass DESFire smart card readers using the two available on-board RS485 connections. Supported card technologies include Mifare CSN and CEM DESFire

Offline card verification

The card database is initially downloaded to the eDCM 380 internal memory from the AC2000 host server with subsequent changes to card data automatically sent as updates. This ensures that the eDCM 380 has up-to-date card information when operating in offline mode. Operating in offline mode the controller can hold up to 200,000 cards and store 50,000 transactions.

Host Communications

The eDCM 380 has an on-board 10/100 Mbps Ethernet allowing it to communicate directly with the AC2000 host central system.

Interlock Mode

Airlock mode will create an interlock between both doors when the unit is in two door mode. Full bi-directional interlock is only supported in single door mode.

Specifications

Physical

Size 460 x 250 x 90mm (18" x 10" x 3.5")
 Weight 3.75 kg
 Housing Steel enclosure (color beige)

Power

Power requirement PoE+ 802.3at compliant Phihong midspan
 33.6W per port
 Lock output 1.28A combined lock support
 Current consumption 200mA for DCM board
 (excluding locks and heads)
 Backup battery Integral charging circuit provided with enclosure
 and space battery (Battery not supplied)
 PoE output voltage 12Vdc @ 1.9A*

* Up to 1.9 Amps at 12V available at the door to power the DIU and DCM board including all attached devices, using a CEM recommended Phihong midspan and up to 100m of CAT5e cable at max. 55° C temperature.

Environmental

Temperature -10° to 55°C (-14° to 131°F)

Functionality

Configuration Operational parameters are downloaded from host computer
 LED indicators Power, Link to host, Comms Tx/Rx,
 Fault / Tamper, Lock and Relay Status
 eDCM 380 Inputs Door Position*
 Lock Status*
 Exit Push Button*
 Interlock*
 Power Fail Tamper
 Battery Low (reported internally)
 Dedicated Power Fail Input

* = 4 state tamper protected inputs
 These physical inputs can be used, if spare, as general inputs for alarm monitoring

Reader capacity Two RS485 serial sPass smartcard readers
 Cardholders Storage up to 200,000 cardholders at the door
 Transactions Up to 50,000 transactions in offline operation
 PCB battery 3.0V rechargeable Lithium; Used for PCB real-time clock only

*Output inclusive of sPass read-heads, DCM and DIU, using Phihong Midspan and up to 100m of CAT5e/6 cable at rated temperature

Ordering Information

Product Code	Description
DCM/380/101	eDCM 380 (Incl. Enclosure)
CEQ/576/001	Phihong PoE MidSpan device - 1 Port (PoE36u-1AT)
CEQ/576/004	Phihong PoE MidSpan device - 4 Port (PoE125u-4AT)
CEQ/576/008	Phihong PoE MidSpan device - 8 Port (POE576U-8AT)
CEQ/576/016	Phihong PoE MidSpan device -16 Port (POE576U-16AT)

Requirements

- AC2000
- AC2000 Airport
- AC2000 Lite
- Phihong PoE Midspan
- sPass DESFire reader
- RTC Ethernet Reader Controller

Related Products



AC2000
 AC2000 Airport
 AC2000 Lite



sPass DESFire reader

www.cemsys.com