

eDCM 300

Intelligent Two Door Controller

OVERVIEW

The eDCM 300 (Door Control Module) is a low cost, two-door controller designed to interface third-party read heads with the CEM range of access control systems.

The eDCM 300 has an on-board 10/100 Ethernet connection and communicates directly with the AC2000 central system. Using a powerful 32bit processor, the eDCM 300 gives full off-line validation and decision making capability at the point of entry, when host communication is not available.

The eDCM 300 supports most third-party access control read heads conforming to the physical Wiegand/Mag Stripe (data/data, clock/data) interfaces, covering a range of technologies from RF Proximity to Biometric devices.

The eDCM 300 supports two door configurations. It can either be configured for two read heads on two separate doors, with optional Exit push buttons, or can be configured to support two reader heads (an Entry/Exit configuration) for bi-directional control on a single door.



FEATURES

- Support for two doors
- On-board 10/100 Mbps Ethernet
- Communicates directly with the central system
- Structured database allows storage of large amounts of cardholder records for off-line card validation
- Reader communications via standard Wiegand or Mag Stripe interfaces
- Eight supervised inputs (four available per door)
- Two relays (normally opened or closed) and open collector outputs
- Self resetting fuses – saves maintenance time
- Onboard LED - provides visual status
- Dedicated tamper input
- Suitable for use with AC2000 family:
 - AC2000 Lite
 - AC2000 SE (Standard Edition)
 - AC2000 AE (Airport Edition)

PRODUCT HIGHLIGHTS
Host Communications

The eDCM 300 has an on-board 10/100 Mbps Ethernet allowing it to communicate directly with the AC2000 host central system.

On-board Card Reading Technologies

The eDCM 300 supports a wide range of head technologies using the two available on-board Wiegand connections. Supported card technologies include Wiegand 26bit, CEM 37bit, Mifare, Corporate 1000 and many more.

Off-line Card Validation

The card database is initially downloaded to the reader's

memory from the host computer with subsequent changes to card data automatically sent as updates. This ensures that the reader has up-to-date card information when operating in off-line mode. Operating in off-line mode the reader can hold up to 200,000 cards.

Easy to Install

The eDCM 300 is designed to be extremely easy to install. The installer simply enters the units preconfigured IP address on the AC2000 workstation, provides it with power, connects to an Ethernet network and the reader self-configures and receives up to 50,000 cardholder database in under 2 minutes.

TECHNICAL SPECIFICATIONS
PHYSICAL

Size	- Board Only	192 x 145 x 20mm (7.6" x 5.7" x 0.8")
	- Enclosure	460 x 250 x 90mm (18" x 10" x 3.5")
Weight	- Board Only	0.1Kg
	- Enclosure	5.00kg
Housing		Wall mount 1.2mm steel enclosure
Colour		Grey
Power	Board Only:	
	- Voltage	9 – 14Vdc
	- Current	
	Consumption	170mA (excluding locks and heads)
	Enclosure:	
	- Voltage	220-230 VAC 50/60Hz
	- Current	
	Consumption	200mA (excluding locks and heads)
Backup Battery		Integral charging circuit provided with enclosure and space battery (Battery not supplied)
Environmental		
	- Temperature	-10° to 55°C (14° to 133°F)
LED Indicators		Power, Link to host, Comms Tx/Rx, Fault / Tamper, Lock and Relay Status

FUNCTIONALITY

Inputs	* Door Position
	* Lock Status
	* Exit Push Button
	* General Purpose
	Power Fail
	Tamper
	Battery Low (reported internally)
	Dedicated Power Fail Input
	* = 4 state tamper protected inputs

Outputs	Two Relays rated at 30V@5A Two 12V open collector outputs limited to 1.5A (Door Lock and External Sounder)
Reader capacity	2 Weigand/Mag Stripe interfaces (data/data, clock/data)
Configuration	Operational parameters are downloaded from host computer
Database memory	1GB SD Card
Cardholders	Storage up to 200,000 cardholders at the door
Transactions	Up to 8,000 transactions in offline operation
RTC Battery Backup	3.0V rechargeable Lithium-
Configuration	Operational parameters are downloaded from host computer

COMMUNICATION INTERFACE

To Readers	Weigand/Mag Stripe interface (data/data, clock/data)
Connection	2 part screw terminals
To System Host	10/100 Base-T TCP/IP using CAT5 Unshielded twisted pair cable
Connection	RJ45

PRODUCT CODES

DCM/300/004	eDCM 300 (Board Only)
DCM/300/101	eDCM 300 (Includes enclosure, board & power supply/battery charger)

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