SAFEnet V 6.2.16 SP4

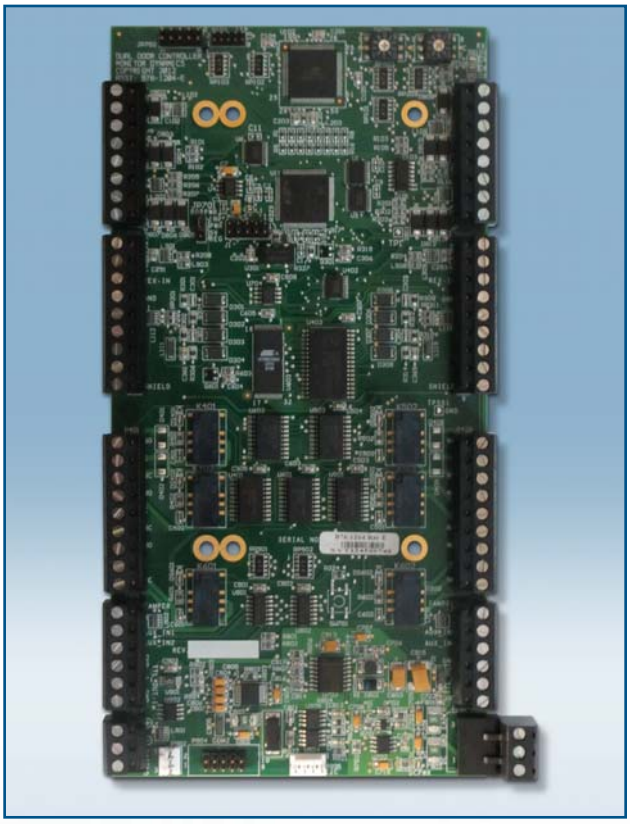
Technical Specifications
Integrated Digital Controller Hardware

Dual Door Controller (DDC)

monitordynamics

The Dual Door Controller (DDC) is an access control field device that functions as a door interface for the Network Local Controller (NLC) Board, integrating card readers and associated door hardware into a single system. The DDC is configurable for two doors (with entry readers) or for one door (with entry and exit readers).

The DDC memory stores 20,000 card records. All access control decisions for its two readers are made by the DDC using this database. Cards that have not been used for a preset number of days are removed from the DDC database and replaced with more active cards.



When a card's record is not found in the DDC database, the card data is passed to the NLC for the access control decision. If communication between the DDC and NLC is disrupted, the DDC continues to make access decisions for its 20,000 cardholders. Up to 512 events are stored at the DDC and passed to the NLC when communication is restored.

The DDC features 2 reader ports, flexible input and output configurations, FLASH memory for application programs (firmware) and SDRAM for cardholder database and event storage. The interface between the DDC and NLC utilizes industry standard RS-485 communication protocol that allows the DDC to be located up to 4,000 feet from the NLC Board.

The DDC is configured with a diagnostic port which allows field service and other technical personnel to view activity, perform diagnostics analysis, and make necessary system configuration changes.

Features:

- Supports 2 doors with Entry Readers or 1 door with Entry/Exit Readers
- Each reader port has connections for power, data, 2 LEDs and Buzzer
- Supported readers include Magstripe, Wiegand, Barcode, Proximity, Biometrics, and SmartCard
- Supports industry standard and custom card formats
- Stores 20,000 Cardholder Database
- Access decisions are made at the DDC using local database, even during loss of communication with NLC
- Stores 500 events
- Access decisions are made at NLC when card not found in DDC database
- Inactive card records are removed from DDC database and replaced with active cards
- 4 Supervised inputs: 2 door monitor and 2 alarm inputs
- 8 Non-supervised inputs: 2 Request-to-exit (REX), 2 tamper and 4 Auxiliary inputs
- 6 Form-C output relays (3 per door): door lock, alarm and spare
- Accepts 6.0 - 16.0 VDC power source
- Downloadable FLASH memory eliminates the need to change EPROMs for applications programming and system upgrades RS-485 bus remote installation up to 4,000 feet (1300m) from NLC

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Primary Panel Features:

Electrical

Power	6-16 VDC
Current Draw	120mA maximum

Dimensions

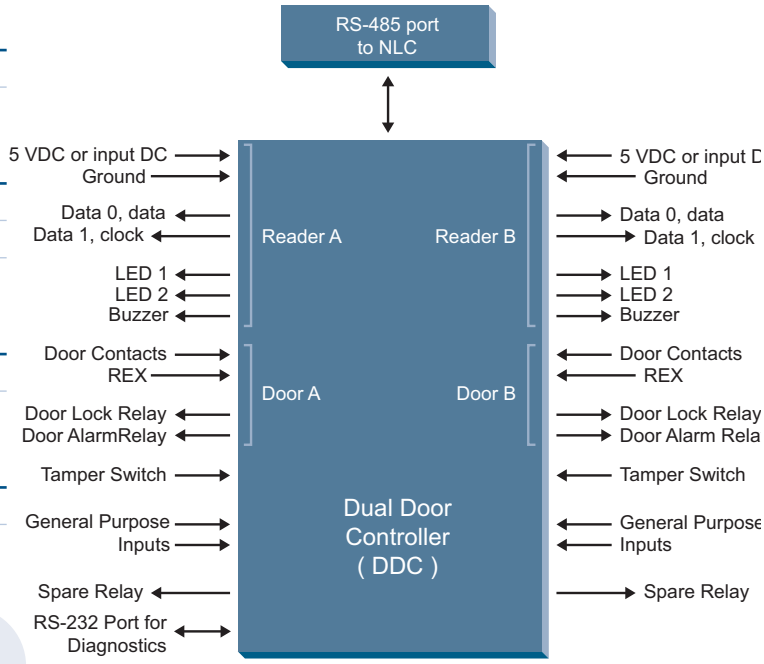
Width	7.0 in. (178 mm)
Length	5.0 in. (127 mm)
Height	1.0 in. (26 mm)

Environment

Temperature	32ºF-120ºF, (0ºC-50ºC)
Humidity	10%-95% (non-condensing)

Memory

Read Only	64 Kbytes Flash Memory
Random	512 Kbytes SDRAM for - Card Data: 20,000 cards - Event Storage: 512 events on loss of communications with NLC Board



Communications

Protocol	RS-485
Distance	4,000 feet
Media Type	Twisted Pair (Belden 9841 cable)
Diagnostics Port	RS-232

Readers

Quantity	2
Configurations	Two doors (Entry/Entry) or Single Door (Entry/Exit)
Types	Magstripe, Wiegand, Proximity, Barcode, Biometric, and SmartCard
Card Formats	Standard and Custom
LED Support	Single or dual color per reader
Buzzer Support	1 per reader
Supplied Power	+5 VDC @ 100mA total or direct DDC input voltage

Inputs

Supervised	2 Door position
	2 Alarm or general purpose
Non-Supervised	2 Tamper 2 Request to Exit 4 Alarm or general purpose

Outputs

Relay Outputs	2 Door Lock
	2 Alarm (ON - door forced or door propped timeout, PULSING -(door propped warning)
	2 Spare

Design and specifications subject to change without notice.

www.monitordynamics.com

DDC-01/08/13

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