

IMDC-MAIN / IMDC-RIM ACCESS CONTROL PANEL (Up to 32 Doors)

iMDC is a Multi-Door Access Control Panel has the ability to control up to 32 Doors for one iMDC Set. iMDC-MAIN is the Main Board to handle the data transactions and settings for the iMDC-RIM Boards. Each iMDC-MAIN has the ability to monitor and control up to 16 iMDC-RIMs. Each iMDC-RIM consists of 2 Reader Ports, 8 Supervised Inputs, and 8 Outputs, which is expandable to a total of 32 Readers, 128 Supervised Inputs, and 128 Outputs per iMDC-MAIN Series.

The iMDC is ideal for non-centralized installation design. For example, the iMDC-Main may be located in the Server Room, while the iMDC-RIM could be installed closest to each door to save cabling cost. iMDC was designed to be suitable for Large to Enterprise Installations, however, it may used for Small to Large Installations due its scalability feature.

Two iMDC-MAIN Panels can be installed for the purpose of hardware redundancy. First iMDC-MAIN will function as the Active Control Panel, while the second iMDC-MAIN will function as a Backup Control Panel, for in the case, the first iMDC-MAIN Panel fails, the second iMDC-MAIN Panel will take over the first iMDC-MAIN's operations.

When there is a loss of communication between iMDC-MAIN and iMDC-RIM, the iMDC-RIM will continue normal operations for all the IDs that were presented before loss of communication, this feature is called LEARN-ING MODE.

iMDC, by default, is able to accept five(5) different Wiegand Data Structures (26Bit, 32Bit, 34Bit, 35Bit, and 37Bit), but has the ability to program up to a total of 27 different Wiegand Data Structures (up to 53Bits). iMDC has an expansive memory buffer to be able to store up to 200,000 User IDs and up to 200,000 Event Data.



Key Features

iMDC - MAIN

 Dependable Fault Tolerant System to provide Stable Performance to prevent Total System Failure

- Automatic switching of Secondary iMDC-MAIN as Backup, for in the case, Primary iMDC-MAIN fails

- User Configurable Relay Ouput during Communication loss between iMDC-MAIN and iMDC-RIM

- System Reset Function by Self-Diagnosis (Watchdog Function)

- Data Transmission using Encrypted Algorithm (AES 256bit, SEED 128bit) between iMDC-MAIN and Communication Server
- Wiegand Data Structure (up to 53Bits) can be set accordingly to the client's demand
 - iFDC can process simultaneously up to 27 different Wiegand Data Structure
 - Default Wiegand Formats: 26Bit, 32Bit, 34Bit, 35Bit, and 37Bit Wiegand Formats
- Linux Operating System Applied for Higher System Performance and Stability
- Up to 32 Door Access Control Panel (Connect up to 16 iMDC-RIM per iMDC-MAIN)
 Up to 32 Readers, 128 Supervised Inputs, 128 Outputs
- Storage Capacity: Up to 200,000 Users / Up to 200,000 Event Buffers
- Advanced Security Time Schedule Configuration
- Anti-Passback (Global / Area / Zone / Timed / Soft / Hard)
- Duress Mode, 2-Men Operation, Arm/Disarm Function, Guard Tour

- Alerts when Door Held Open Time exceeds and Forced Door Open
- On-Board Ethernet / RS485 Communication
- Compatible Software: IDTECK ENTERPRISE
 IDTECK ENTERPRISE PLUS - M/G
 IDTECK ENTERPRISE GLOBAL
 IDTECK ENTERPRISE BASIC

iMDC - RIM

- 8 On-Board Supervised Input Ports / 8 On-Board Output Ports / Additional (1) Tamper Switch Port per iMDC-RIM (Can expand to 128 Supervised Inputs / 128 Outputs / 32 Reader Ports / 16 iMDC-RIM)
- Communication Loss to iMDC-MAIN enables iMDC-RIM to enter into LEARNING MODE, which allows Entry and Exit for recent presented cardholders prior to loss of Communication
- On-Board Ethernet / RS485 Communication



Specifications

MODEL	iMDC - M	AIN	
CPU	32 Bit (ARM Cortex A8) Microprocessor		
Operating System	Embedded Linux		
Memory	512 MB Flash		
	256 MB DDR2 SDRAM		
User / Event Capacity	200,000 Users / 200,000 Events		
Power / Current	12V DC / Max. 500mA		
Tamper Switch Input Port	1 EA		
1 1			
Communication	Ethernet (RIM board and host communication), RS485 (RIM board communication)		
Communication Speed	Ethernet: 10/100Mbps		
RIM Board Interface	16 iMDC-RIM via Ethernet or RS485 / 2 Readers, 8 Inputs, 8 Outputs per Device		
	(Connect Up to 32 Readers, 128 Inputs, 128 Outputs to the Board)		
LED Indicator	22 LED Indicators		
Buzzer	Piezo Buzzer		
Operating Temperature	0° C to +65° C		
Operating Humidity	10% to 90% Relative Humidity, Non-Condensing		
Dimension (W x H x T)	137mm x 137mm x 18mm		
Weight	135g		
Certification	UL, FCC, CE, KC, RoHS		
MODEL	iMDC - R	Μ	
Product Version	v3.00 or later	below v3.00	
CPU	32 Bit Microprocessor	8 Bit Microprocessor	
Power / Current	DC 12V / Max. 350mA		
Reader Port	2 EA		
	- Default: 26 / 32 / 34 / 35 / 37 Bit Wiegand, 4/8 Bit Burst for PIN		
	- Adjustable to suit Customer Request up to 53 Bit		
LED / Buzzer Control	2 EA	N/A	
Input Port	8 Supervised, 4-State Input (NO/NC Input Type Selectable)		
Output Port	8 EA: 2 FORM-C Relay Output (COM, NO, NC) / I		
Communication	Ethernet (Default)	Ethernet (Default)	
	(Ethernet, Serial Selectable)		
Communication Speed	Ethernet: 10/100 Mbps (iMDC and Host Communication)		
	Serial: 38,400 bps (iMDC Communication)	N/A	
LED Indicator	33 LED Indicators	25 LED Indicators	
Operating Temperature	0° C to +65° C		
Operating Humidity	10% to 90% Relative Humidity, Non-Condensing		
Dimension (W x H x T)	157mm x 185mm x 18mm	137mm x 137mm x 18mm	
Weight	Ethernet: 222.5g	168g	
Weight	Serial: 210g	-	
Certification	UL, FCC, CE, KC, RoHS		



ACCESS CONTROL PANEL | **iMDC-MAIN iMDC-RIM**

iMDC Packages



iMDC - MAIN Package			
iMDC - MAIN Board	1EA		
NEMA Case	1EA		
Power Supply (ID40WA)	1EA		
NFB Switch	1EA		

* Dimension (W x H x T) : 350 x 399 x 100mm / Thickness : 1.4mm

* Color : Black *Fireproofed Surface / Air Vents : 4 EA_ Right 2 / Left 2

* LED Indicator : PWR[1 EA_Red], RX[1 EA_Yellow], TX[1 EA_Green]

* Embedded LED Indicator for Power located on the External Side of the Nema Case.



iMDC - RIM Package		
iMDC - RIM Board	1EA	
NEMA Case	1EA	
Power Supply (ID40WA)	1EA	
NFB Switch	1EA	
* Dimension (W x H x T) : 350 x 399 x 100mm / Thickness : 1.4mm		
* Color : Black *Fireproofed Surface / Air Vents : 4 EA_ Right 2 / Left 2		

* LED Indicator : PWR[1 EA_Red], RX[1 EA_Yellow], TX[1 EA_Green]

* Embedded LED Indicator for Power located on the External Side of the Nema Case.

*** POWER PACKAGE**



ID40WA

- 90 ~ 240V AC [50/60Hz] Input
- 12V DC, 3.0A Output
- FCC Class B

-NFB Switch

• 120 ~ 240V AC, 5A

Backup Battery

• Provides Additional 2~6 Hour Operation after the primary supply fails.

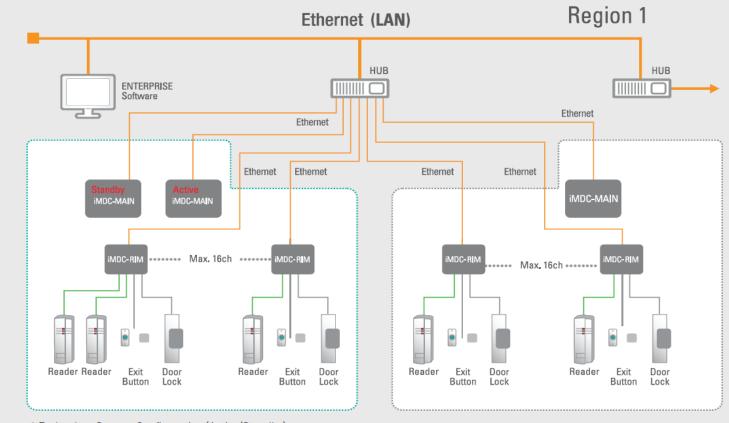
- [12V DC / 7A Battery]
- Backup Batter is not Included

KEY FEATURES

- Designed to provide Complete Power Supply
- Configuration for Access Control System
- Power Source Changes / Recovers Automatically AC to DC or DC to AC during power failure
- Over Voltage and Current Protection
- Alarm Signal for AC Power Failure
- Built-in Battery Recharge Circuit



iMDC Configuration (ETHERNET)

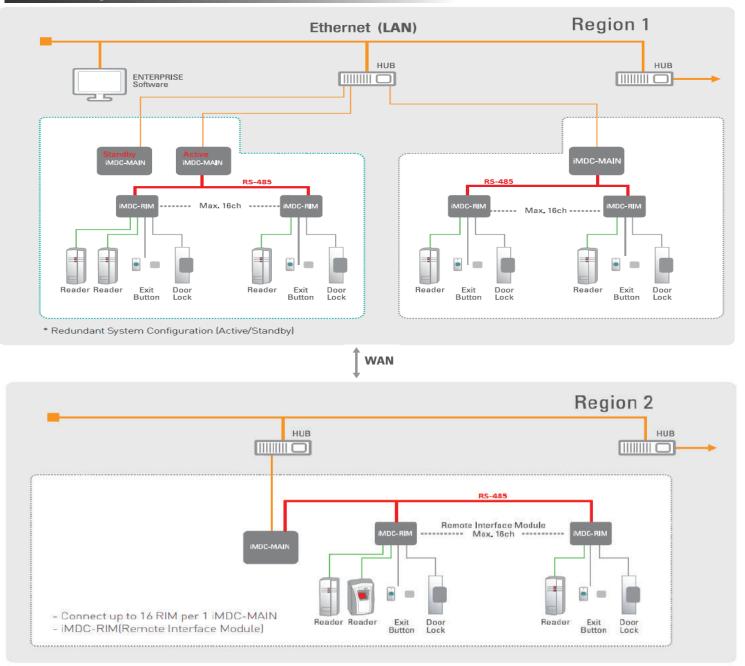


* Redundant System Configuration (Active/Standby)

WAN Region 2 HUB HUB Ethernet Ethernet Ethernet Remote Interface Module iMDC-RIN MDC-RI Max. 16ch MDC-MAIN • - Connect up to 16 RIM per 1 iMDC-MAIN Reader Reader Exit Door Reader Exit Door - iMDC-RIM(Remote Interface Module) Button Button Lock Lock



iMDC Configuration (RS485 / SERIAL)



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