

iFDC

EMBEDDED WEB SERVER | PoE BASED ACCESS CONTROL PANEL (4 Doors)

The iFDC is a 4-Door Access Control Panel is a networkable Access Control Panel having the ability to control up to 4 Doors. Included into the Access Control Panel is the Embedded Web Server, where this panel can be virtually connected and accessed anytime and anywhere around the world. Also can be powered up with conventional 12V DC Power or PoE+ (Power over Ethernet).

By adding an expansions board, ERIO, the iFDC will turn into an 8-Door Access Control Panel with additional Inputs and Outputs, iEDC. Also providing extra security and safety by utilizing 4-State Supervised Inputs. The iFDC's Inputs and Outputs can be scaled to a maximum of 80 Inputs and 80 Outputs by utilization of the expansion boards, UIM and UOM.

The iFDC is designed for Small to Large Installations, however, it is scalability to fit Enterprise solutions. The iFDC has the ability to handle Large Scale Installation designed for Access Control to Elevator Control, while providing basic Time & Attendance functions.

KEY FEATURES

- ❖ Up to 4 Door Access Control Panel (Expandability to 8 Door Access Control)
- ❖ Linux Operating System Applied for Higher System Performance and Stability
- ❖ Storage Capacity: Up to 100,000 Users / Up to 100,000 Event Buffers
- ❖ Dependable Fault Tolerant System to prevent Total System Failure
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- ❖ Data Transmission using Encrypted Algorithm (AES 256bit, SEED 128bit)
- ❖ 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
- ❖ Anti-Passback Functions (Global/Zone/Timed/Soft/Local)
- ❖ Duress Mode, 2-Men Operation, Arm / Disarm Function
- ❖ Advanced Security Time Schedule Configuration
- ❖ Alerts when Door Held Open Time exceeds and Forced Door Open
- ❖ 8 On-Board Supervised Input Ports / Additional (1) Tamper Switch Port
- ❖ 8 On-Board Output Ports
- ❖ Supports Expansion Input Board (UIM), Expansion Output Board (UOM)
UIM: Additional 16 Supervised Inputs, 2 Outputs [Up to 4 UIM per iEDC]
UOM: Additional 16 Outputs, 2 Supervised Inputs [Up to 4 UOM per iEDC]
Total : 8 Readers, 80 Supervised Inputs, 80 Outputs
- ❖ Embedded Web Server
 - Various Configuration Settings via Web
 - Operation without Installation of Management Software
- ❖ PoE (Power over Ethernet) Capability
- ❖ On-Board Ethernet / RS232 / RS485 Communication
- ❖ Designed to withstand ESD (Electrostatic Discharge) Shock
- ❖ Compatible Software:
IDTECK ENTERPRISE
IDTECK ENTERPRISE PLUS - M/G
IDTECK ENTERPRISE GLOBAL
IDTECK ENTERPRISE BASIC



SPECIFICATIONS

Model	iFDC	
CPU	32 Bit (ARM Cortex A8) Microprocessor	
Operating System	Embedded Linux	
Memory	512 MByte Flash 256 MByte DDR2 SDRAM	
User / Event Capacity	100,000 Users / 100,000 Events	
Power	Power Input / Current: 12V DC / Max. 700mA PoE (Power over Ethernet): PoE + (IEEE 802.3 at), Max 30W	
Reader Ports	4 Reader Ports (iFDC)	
LED/Buzzer Control	4 LED / Buzzer Control Ports	
Communication	RS232 / RS485 (Max. 32ch.) / Ethernet	
Communication Speed	Serial: 57,600 bps (Default), 9,600 bps / 19,200 bps / 38,400 bps / 115,200 bps (Selectable) Ethernet: 10/100 Mbps	
LED Indicator	39 LED Indicators	
Input Ports	8 EA (Input Type Selectable, 4-State Supervised Input) 1 EA (Tamper Switch Input Port) (Up to 88 Inputs with ERIO, UIM, UOM)	
Output Ports	8 EA: 2 FORM C Relay Output (COM, NO, NC) DC12V ~ 18V, Rating Max. 2A (Up to 88 Outputs with ERIO, UIM, UOM)	
Buzzer	Piezo Buzzer	
Operating Temperature	0°C to +65°C (+32°F to +149°F)	
Operating Humidity	10% to 90% Relative Humidity, Non-Condensing	
Dimension (W x H x T)	220mm x 145mm x 25mm	
Weight	294g	
Certification	FCC, CE, KC, RoHS, UL	
Model	ERIO (Expansion Reader/Input/Output Board) / Required for Controlling 5~8 Doors	
Reader	4 Reader Ports	
LED / Buzzer Control	4 EA	
Input Port	8 EA (Input Type Selectable, 4-State Supervised Input)	
Output Port	8 EA: 2 FORM C Relay Output (COM, NO, NC) / DC 12V ~18V, Rating Max 2A	
Dimension	137mm x 169mm x 28mm (4.1" x 6.7" x 1.1")	
Weight	173g	
Model	UIM (Expansion Input Board)	UOM (Expansion Output Board)
CPU	32 Bit Microprocessor	
Input Port	16 EA: Input Type Selectable (4-State Supervised Input)	2 EA: Input Type Selectable (4-State Supervised Input)
Output Port	2 EA: 2 FORM C Relay Output (COM, NO, NC)	16 EA: 2 FORM C Relay Output (COM, NO, NC)
Communication	RS485 (Up to 4ea UIM and Up to 4ea UOM per 1 iFDC / iEDC)	
LED Indicator	22 LED Indicators	
Power / Current	DC 12V / Max. 150mA	DC 12V / Max. 150mA
Dimension (W x H x T)	157mm x 137mm x 16mm	157mm x 185mm x 16mm
Weight	Unit Weight: 139.5g (0.308lb)	Unit Weight: 203g (0.448lb)



iFDC EMBEDDED WEB SERVER

- ID Registration (up to 100,000 users) / Deletion / Search Function)
- iFDC Network Information Setting
- iFDC Board ID Search Function
- Work Time Setting / Work Holiday Definition / Overtime Work Management
- Daily START / END Time Report / Monthly Total Work Time Report
- Time & Attendance Report .csv file format download
- Duress Mode / Anti-Passback / 2 Men Operation
- Arm / Disarm Management / Audible Alarm Setting
- Card Auto Deletion / Event Priority / Time Schedule Setting
- Output Time Setting for Card / Input Event
- Reader Mode Setting (Proximity Reader, PIN & Proximity Reader)

❖ iFDC PACKAGE



iFDC - 1 (4 Doors)	
iEDC Board	1EA
NEMA Case	1EA
Power Supply (ID40WA)	2EA
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.**

❖ UIM PACKAGE



UIM16 PACKAGE	
UIM 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]
- * **Embedded LED Indicator for Power located on the External Side of the Nema Case.**

❖ UOM PACKAGE



UOM16 PACKAGE	
UOM Board	1EA
NEMA Case	1EA
Power Supply (ID40WA)	2EA
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]
- * **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

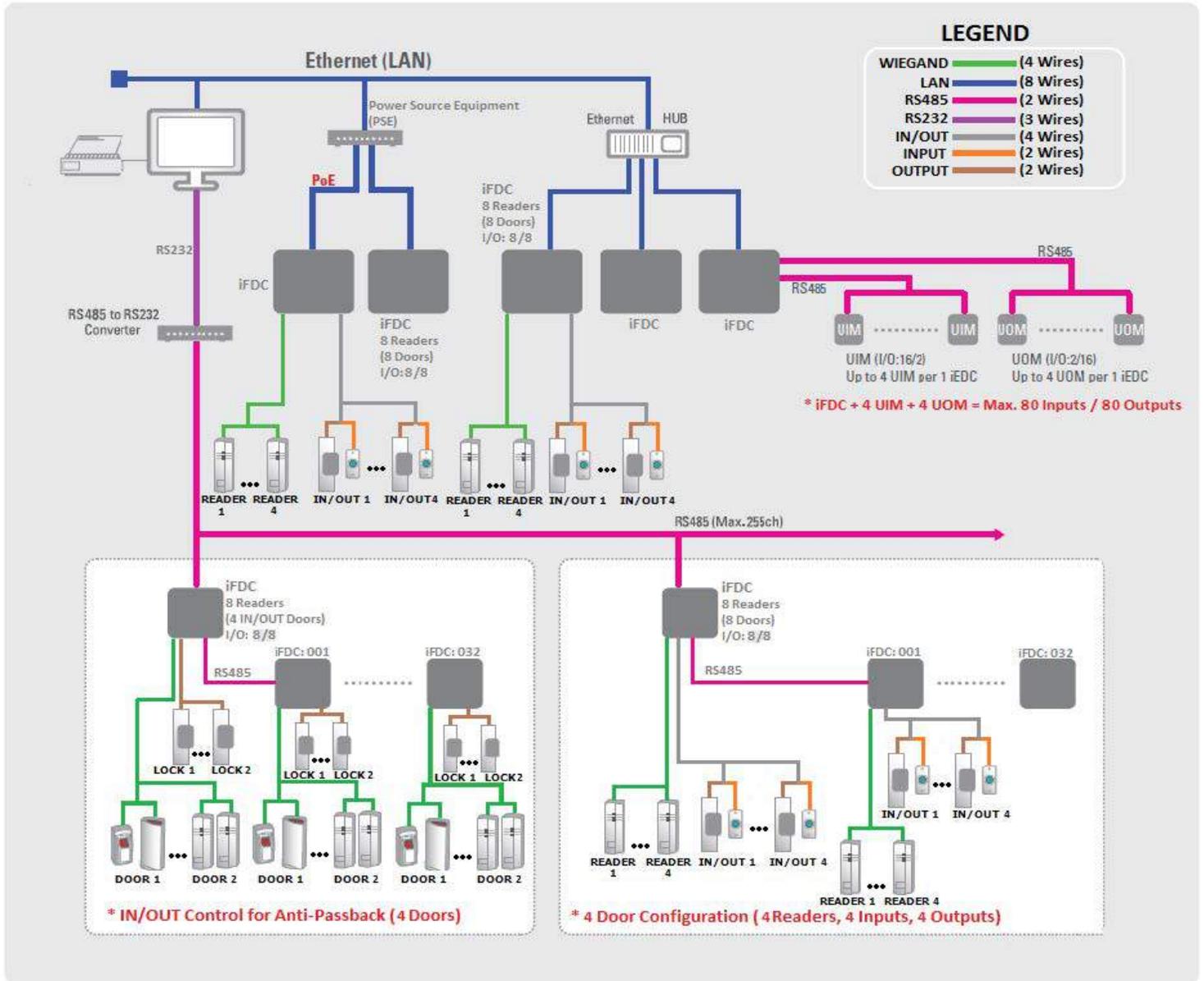
Backup Battery

- Provides Additional 2~6 Hour Operation after the primary supply fails. [12V DC / 7A Battery]
- Backup Battery 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

iFDC CONFIGURATION



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