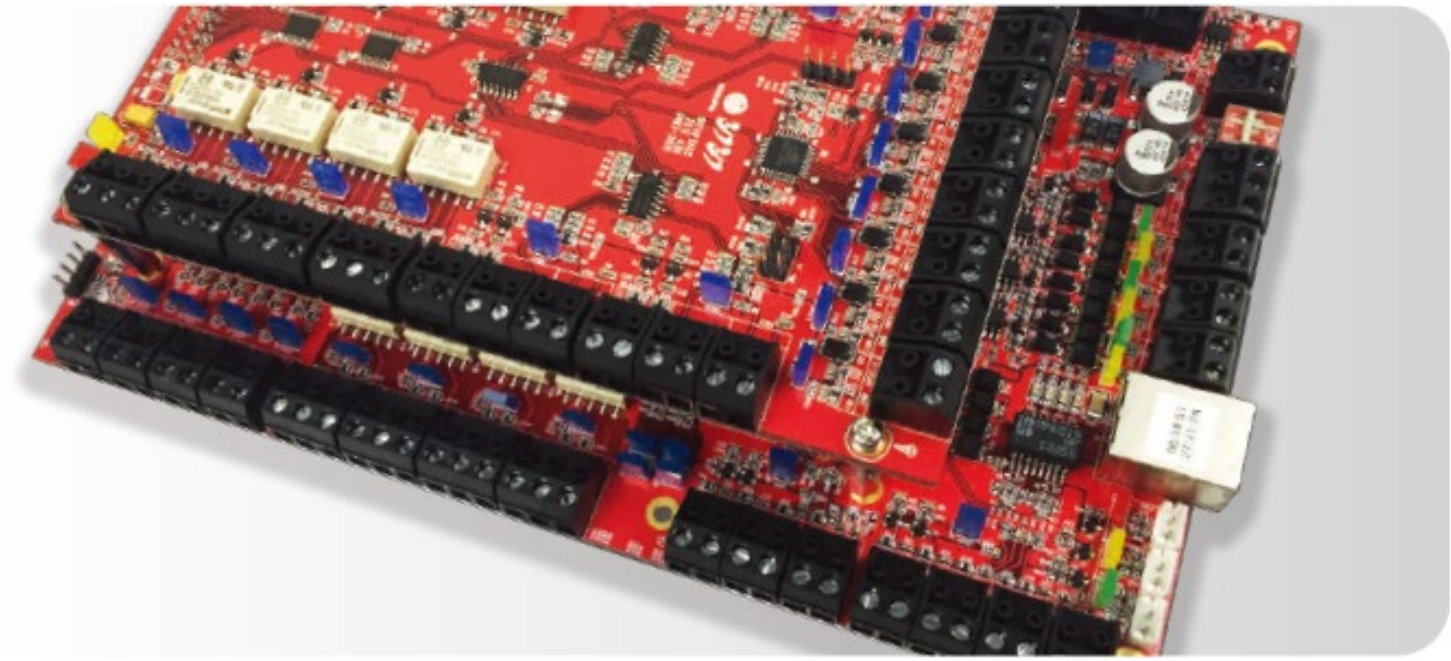


iEDC -8 Door Control Panel

PoE BASED ACCESS CONTROL PANEL

iEDC is a networkable Access Control Panel having the ability to control up to 8 Doors.

iEDC has on-board 8EA reader ports, 16 EA supervised input ports, and 16 EA Output ports. In addition, it's Inputs and Outputs can be scaled to a maximum of 88 Inputs and 88 Outputs by utilizing Input and Output expansion boards UIM and UOM. Furthermore, iEDC has ability to program up to 27 Different Wiegand data formats (Up to 53 bits) to expand its compatibility to various readers.

iEDC is designed to withstand ESD(Electrostatic Discharge) Shock, and provides Watchdog functions that reset system to restore normal operation after temporary system failure caused by electrical noise, shock, or reverse current. Also, iEDC can be powered up with PoE (Power over Ethernet)

iEDC provides various and enhanced security functions, and its data transmission is encrypted by AES 256

iEDC is the control panel ideal for any size of site (Small to Enterprise) with its scalability, stability, and security features.

KEY FEATURES

- Linux Operating System Applied for Higher Performance and Stability
- Storage Capacity
  * Up to 200,000 Users
  * Up to 500,000 Event Buffer
- Data Transmission using Encrypted Algorithm (AES 256)
- PoE(Power of Ethernet)
- Ability to upgrade firmware remotely.
- Supports Expansion board
  * UIM – Input expansion board
    : 16 Supervised Inputs, 2 Outputs
    [Up to 4 UIM per iEDC]

  * UOM – Output expansion board
    : 16 Outputs, 2 Supervised Input
    [Up to 4 UIM per iEDC]

➢ One iEDC can support up to 8 Readers, 88 Supervised Inputs, 88 Outputs

- Enhanced Security Functions
  * Lock down * Interlocking
  * Global Anti-pass back
    - Timed / Soft / Hard
  * Arm / Disarm * Duress mode
  * Advanced Time schedule
  * 2Men Operation* Guard Tour
- Compatible Software

* IDTECK Enterprise Series
* Basic / TA / Plus / Global

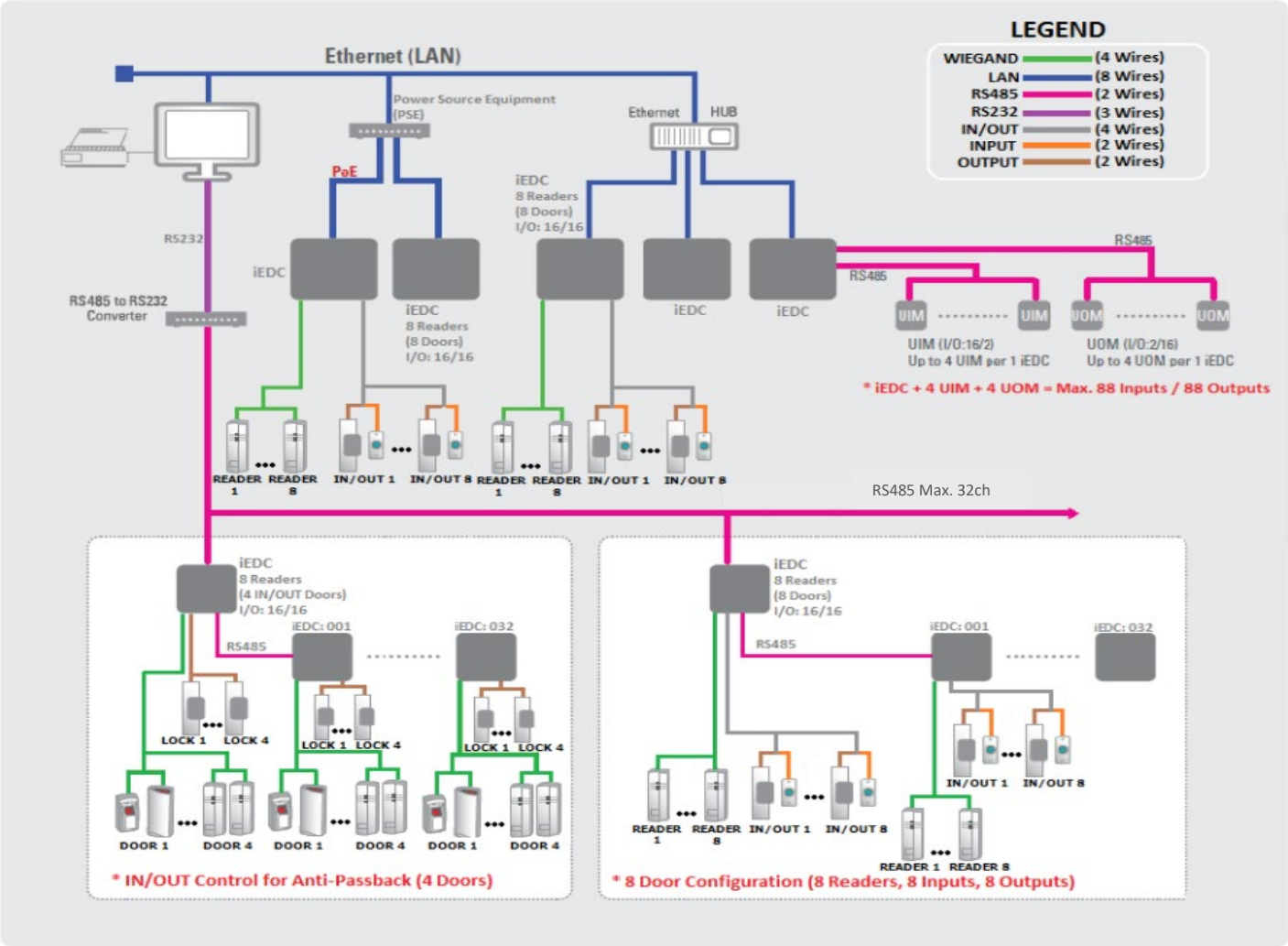
SPECIFICATIONS

Model	iEDC
CPU	32 bit (ARM Coretex A8) Microprocessor
Operating System	Embedded Linux
Memory	512MByte Flash 256MByte DDR2 SDRAM
User / Event Capacity	100,000 Users / 400,000 Events
Power	Power Input / Current: 12V DC / Max. 700mA PoE(Power over Ethernet): PoE + (IEEE802.3 at), Max 30W (Option)
Reader Port	8EA - Default: 26/34 Bit Wiegand, 4/8 Burst for PIN - Wiegand Structure Programmable Up to 53 Bit
LED / Buzzer Control	8EA
Communication	Ethernet / RS 232 / RS 485 (Max. 32 Ch.)
Communication Speed	Ethernet: 10/100Mbps Serial: 57,600 bps (Default) 9,600 bps/ 19,200 bps, 38,400 bps / 115,200 bps (Selectable)
LED Indicator	63 LED Indicators
Input Port	16 EA (Input Type Selectable, 4-State Supervised Input) 1EA (Tamper Switch Input port)
Output Port	16 EA: 2 FORM-C Relay Output (COM, NO, NC) DC 12V ~ 18V, Rating Max. 2A
Buzzer	Piezo Buzzer
Operating Temperature	0 C to + 65C
Operating Humidity	10% to 90% Relative Humidity, Non-Condensing
Weight / Dimension	467g / 220mm x 145mm x 40 mm
Certification	FCC, CE, JC, RoHS, UL

UIM / UOM Specification

MODEL	UIM	UOM
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 4 ea UIM and UPI to 4ea UOM per 1 iFDC / iEDC)	
LED Indicator	22 LED Indicator	
Power	DC 12V / Max. 150mA	DC 12V / Max. 350mA
Dimension (W x H x T)	157 mm x 137 mm x 16 mm	157mm x 185 mm x 16mm
Weight	Unit Weight : 139.5g (0.308lb)	Unit Weight 203g (0.448lb)

SYSTEM DIAGRAM



Recommended Cable Type and Permissible length of Cable

Reference	Description	Cable Specification	Max. distance
1	DC + 12V Power → iFDC	Belden #9409, 18AWG 2 conductor, unshielded	3m
2	Reader (Power and Data) Reader → iFDC & ERIO	Belden #9512, 22AWG 4 conductor, shielded	150m
		Belden #9514, 22AWG 8 conductor, shielded	
3	Door Contact Exit button Sensor Input Input → iFDC & ERIO	Belden #9512, 22AWG 4 conductor, shielded	300m
		Belden #9514, 22AWG 8 conductor, shielded	
4	Door Lock, Alarm Device Lock (Alarm) → iFDC & ERIO	Belden #9409, 18AWG 2 conductor, unshielded	300m
5	iFDC Cable iFDC ←→ Host PC	1. UTP Cable CAT5 (Category 5) 2. Serial Cable (RS232 Cable	1. Under 100m 2. Under 15 m

iEDC PACKAGE

iEDC - 1 (8 Doors)	
iEDC Board	1EA
NEMA Case	1EA
Power Supply (ID40WA)	2EA
NFB Switch	1EA

* Dimension (W x H xT) : 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

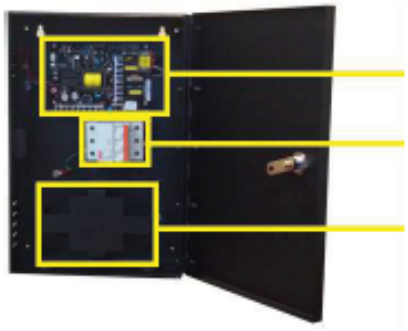
* Dimension (W x H xT) : 350 x 399 x 100mm / Thickness : 1.4mm
* Color : Black *Fireproofed Surface / Air Vents : 4 EA_ Right 2 / Left 2
* LED Indicator : PWR[1 EA_Red]
* ***Embedded LED Indicator for Power located on the External Side of the Nema Case.***

UOM PACKAGE

UOM16 PACKAGE	
	UOM
Board	1EA
NEMA Case	1EA
Power Supply (ID40WA)	2EA
NFB Switch	1EA

* Dimension (W x H xT) : 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

NFB Switch
- 120 ~ 240V AC, 4.5A

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

IDTECK CO., Ltd.
4F, 61, Samjak-ro 171 beon-gil, Bucheon-si, Gyeonggi-do, 14453, Korea
Tel. +82-2-2659-0055 | Fax: +82-2-2659-0086 Email: sales@idteck.com |
Website: www.idteck.com