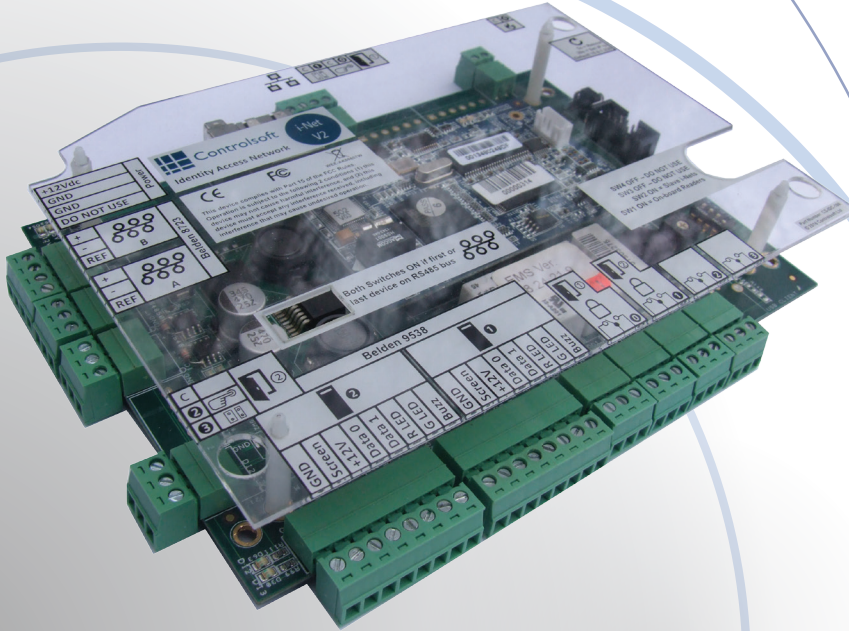# Controlsoft® i-Net™
Intelligent Door Controller

Part Code: IA-ACU / IA-PCB / IA-KIT

The i-Net Intelligent Access Control Unit (ACU) from Controlsoft provides a single board solution for interfacing one or two doors to a Controlsoft Identity Access system. In addition, other i-Net ACUs, Reader Expansion Boards, I/O Expansion Boards and RS485 Readers can be added on the i-Net's RS485 ports to expand its capabilities.

Features & Benefits

- Battery-backed memory for 100,000 cardholders and 100,000 events
- Flexible System Expansion
- Five Programmable Inputs
- Four Programmable Output Relays
- Two Reader Interface Ports
- Doors can be Automatically Released in the Event of Fire
- Programmable Lock Timers
- Reliable and Robust Operation
- Compatible with a Wide Range of Card Formats
- Anti-Passback
- 3 Year Warranty

Technical

Controller Functionality

- On-board 10/100 Base-T port
- 12Vdc @ 300mA
- Removable Terminal Blocks for Ease of Installation
- Normal or Latched Door Control
- 2 x RS485 Ports for System Expansion

Reader Interface Functionality

- Wiegand / RS485
- On-board Regulator Supplies 12Vdc Power for Readers

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Controlsoft i-Net
Intelligent Door Controller

Two Door / Reader Controller

The i-Net Access Control system architecture allows Ethernet connectivity directly from a door location to the Controlsoft Software, while still providing the security, functionality and modularity of Controlsoft's proven hardware platform. The i-Net IA-ACU is scalable for any access control application, from the most basic to the most sophisticated. In the event of communication loss, the i-Net allows local functionality to continue in 'off-line' mode until the server connection is restored.

The i-Net communicates with the Controlsoft Identity Access software through its Ethernet port for remote configuration and/or management. The Controlsoft Identity Access software supports an unlimited number of i-Net ACUs.

Two on-board reader ports support Wiegand readers for 2 independent doors, or 1 door with IN and OUT readers.
The i-Net IA-ACU includes four output relays with voltage free changeover contacts and five inputs that support normally open and normally closed circuits.

Specifications

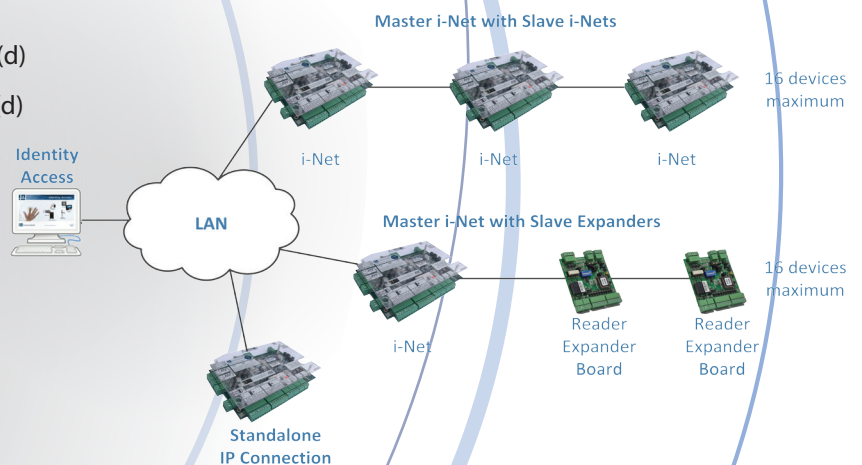**Dimensions (PCB):** 155mm(h) x 170mm(w) x 15mm(d)

Dimensions (Box): 360mm(h) x 286mm(w) x 95mm(d)

Weight (PCB): 200g

Weight (Box): 3.5Kg

Operating Temperature: 0 ℃ to 55 ℃

Operating Humidity Range: 5% to 95%

Master i-Net with Slave i-Nets

Identity Access

LAN

i-Net   i-Net   i-Net

16 devices maximum

Master i-Net with Slave Expanders

i-Net   Reader Expander Board   Reader Expander Board

16 devices maximum

Standalone IP Connection

Ordering Information

Part Number: **IA-PCB,** Control Unit, PCB Only

Part Number: **IA-ACU,** Control Unit, boxed with 3A PSU

Part Number: **IA-KIT**, Control Unit, boxed with 3A PSU plus IA-R10P Reader

Part Number: **IA-STD** Identity Access Software

Part Number: **IA-PRO** Identity Access Professional Features License

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