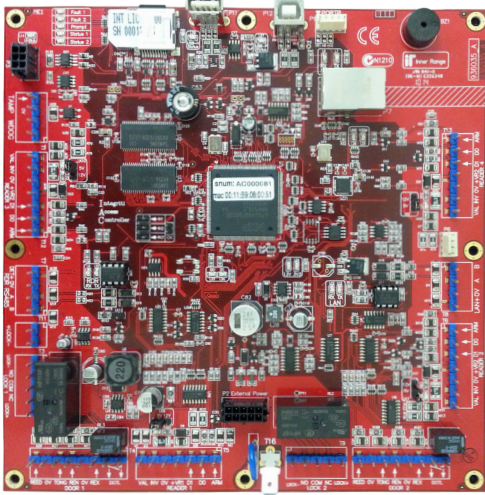


# Integriti Access Controller (IAC)

## An IP based master controller



The Integriti Access Controller (IAC) is an IP based master controller for the Integriti modular hardware system. The Integriti Access Controller can be used to control and monitor up to 8 Doors or Lift cars on the Integriti RS-485 LAN). The IAC supports two doors/four wiegand and 16 RS485 SIFER readers and is expandable up to eight doors/ eight wiegand readers with the simple addition of 2 Door expander boards via the UniBus in-cabinet expansion interface. Equipped with an Ethernet Port, the IAC can be used both stand alone or expanded further via its UniBus and RS-485 Sub-LAN ports. The flexible, modular design of the IAC's system parameters and Sub-LAN architecture allows a single standalone controller to be expanded to form a network of RS-485 expansion modules of up to 100,000 Users, 512 Zone Inputs, 250 Areas/ Zone Partitions and up to 80 card readers and 40 Doors.

Integriti's multi-controller architecture allows any number of IAC's and or ISCs to be combined within the Integriti software package to form a globally managed small, medium or enterprise sized system where the entire network of controllers is managed as a whole. This architecture allows for an infinite number of Readers, Doors, Areas, Zone Inputs and Outputs.

	Doors	Terminals	Users	LAN Modules	Review Events
No Smart Card	12	24	10,000	2	60,000
Expanded	40	80	100,000	16	100,000

## Key Features

### ISC On board Features

- RJ45 - 10/100 Ethernet Port
- RS-485 Sub-LAN
- USB Master & Slave Ports
- UniBus In-Cabinet Expansion Interface
- Multipath-IP / GSM STU Port (Port Zero RS-232)
- Dedicated Watch Dog Output
- Dedicated Tamper Input
- Internal & External Siren Outputs
- 32 Bit ARM CPU with Real Time Clock
- 64 MB RAM
- 2 GB Micro SD Memory
- Smart Card Slot (Smart cards are used for setting system dimensions)
- Firmware Upgrade via USB, LAN or Software

### Ethernet Connected Services

- Connectivity to Integriti Software
- SkyTunnel® Cloud Services & Smart Phone connectivity
- Automation Interface
- BMS / HVAC Integration
- EMS / Lift Access Control Integration

### Expansion Capabilities

- Auxiliary Outputs - Expandable to 16 via UniBus
- Doors - Expandable to 140 via RS-485 Sub-LAN
- Readers - Expandable to 80
- On board Users - Expandable to 100,000
- On board Review Events - Expandable to 100,000
- Ports - RS-232 / RS-485 Serial Ports - Expandable to 8 with UniBus UART

### Functionality

- Full security / Intruder Alarm functionality
- Complete range of Access Control functionality
- Comprehensive Building Automation support
- Fully monitored LAN status, cabinet tamper, door status and communications problems on all modules where applicable
- On board diagnostic LED's to assist with commissioning and troubleshooting

## Uni-Bus In-Cabinet Expansion







UniBus is an innovative in-cabinet bus which allows the connection of Expansion devices, Communications devices and Door & Reader expansion devices on a common Plug & Play bus.

UniBus is built on the highly reliable CANBus technology and replaces the need for ribbon cables and specialised connectors. Up to six UniBus devices can be daisy chained to a UniBus host module.

## Uni-Bus Compatibility

		Host Modules			
		ISC	IAC	8 Zone Exp	ILAM
UniBus Modules	8 Zone Exp	2	0	3	0
	8 Relay Exp	4	4	4	2
	16 Floor Lift	6	6	6	6
	2 Door Exp	0	3	0	3
	2 Way UART	4	4	0	0

## Specifications

Physical	
PCB Dimensions:	200(L) x 200(W) x 45(D) (mm)
Weight:	8.2 k.g. (Includes mains transformer, 7AH battery and cover)
Installation Environment:	0°C - 40°C @15% - 85% Relative humidity (non-condensing)
Electrical	
Power Supply Type:	Type A (EN50131-1) External Power Supply required
Current Consumption:	Maximum 500 milliAMPs from 240V AC Source
Low Battery Alarm:	< 11V DC +/- 100mV
Deep Discharge Protection:	Activates at 10.4 V +/-100mV. Restores at 12.4V +/- 100mV
LAN "POS" & DET+:	Output Voltage: 13.75V DC -0.15/+0.05 V (When AC power Present)
LAN "POS" & DET+ Smartfuse trip current:	2 Amperes
Maximum Ripple:	At maximum ancillary load current: < 200mV P-P / 75mV RMS
Low DC Voltage Alarm:	< 11V DC +/- 100mV
RS-485 & UniBus Parameters	
UniBus In-Cabinet Expansion:	Up to 6 UniBus devices
RS-485 Sub-LAN:	Up to 250 RS-485 Sub-LAN Modules (maximum of 99 of any one type)
Compliance	
Electrical	   
Environmental	 

## Enclosure Options

Code#	Description
21011	Integriti - Access Controller - Standard Cabinet - 2 Amp PSU
21012	Integriti - Access Controller - Standard Cabinet - 3 Amp Smart PSU
21013	Integriti - Access Controller - Large Cabinet - 2 Amp PSU
21014	Integriti - Access Controller - Large Cabinet - 3 Amp Smart PSU
21018	Integriti - Access Controller - Large Cabinet - 8 Amp Smart PSU
21015	Integriti - Access Controller - Mega Cabinet - 2 Amp PSU
21016	Integriti - Access Controller - Mega Cabinet - 3 Amp Smart PSU
21017	Integriti - Access Controller - Mega Cabinet - 8 Amp Smart PSU