The Integriti Access Controller (IAC) is a state-of-the-art IP connected intelligent Controller designed for Access Control applications. The IAC can directly manage up to 8 doors locally or up to 240 doors via RS-485 Sub-LAN expansion. All decision making is intelligently processed by the Controller with no reliance on the system server (should the connection to the server be offline). The result is a solution that is incredibly guick, robust and highly intelligent. The main Controller is equipped with connections for 2 Doors and 4 Wiegand Card Readers, a Watchdog Output, Ethernet and USB ports and a dedicated RS-485 reader port. Additional connections for Doors and Wiegand Readers can be added via the IAC's UniBus port with up to 3 UniBus 2 Door/2 Reader expansion devices (Part. 996535PCB&K), this allows for flexible configurations of 2, 4, 6 or 8 doors, and up to 10 Wiegand readers. The RS-485 Reader port accommodates up to 16 Inner Range SIFER or compatible third party OSDP multi-drop readers, providing in & out directional access control for each door. The IAC can also be used for integration of wireless door locking systems from Assa Abloy Aperio, Simons Voss or Salto Sallis. Please see our website for Wireless Locking system Integration Guides for more details.

Larger systems may consist of many IAC's networked together to form an enterprise-wide IP connected intelligent access control solution. Each IAC can support up to 3,000 Zone Inputs, 3,000 Outputs, 250 Areas and over 1,000 Card Readers and 240 Doors. User capacity of up to 100,000 users is available as a standard expansion option, and capacity for 1,000,000 users is also available with the Level 5 User expansion kit. (Part. 996002L5)

Main Controller Features

- 2 Door Interfaces (Lock Relays) expandable to 8 via UniBus
- Reader Port Encrypted RS-485, Up to 16 SIFER Readers
- Reader Port RS-485/OSDP, Up to 16 compatible OSDP Readers
- Wiegand Reader ports 4, expandable to 10 via UniBus
- Aperio, SimonsVoss, Salto Sallis integration up to 8 Doors via RS-485 Reader port
- 2 DOTL Relay Outputs, expandable to 8 via Unibus
- RJ45 10/100 Ethernet Port
- SkyTunnel/Multipath-IP Alarm reporting (via RS-232 STU device)
- Peer-to-Peer Dialler Alarm Reporting (via an ISC Controller)
- Advanced Peer-to-Peer Mode
- RS-485 Sub-LAN
- · USB Master & Slave Ports
- · UniBus In-Cabinet Expansion Interface
- Dedicated Watch Dog Output Dedicated Tamper Input
- 32 Bit ARM CPU, 64 MB RAM, 4 GB Micro SD Memory
- Firmware Upgrade via USB or Software
- Choice of 3Amp or 8Amp Power Supply and enclosure options
- Built-in module locater buzzer

Integriti IAC Standard Operating Level

16 Doors, 100 Zones, 10,000 Users, 30,000 Events (IAC Level 0 standard option)**

IAC Operating Level Expansion Options

- 996020L1 Level 1 SMART Card: 40 Doors, 200 Zones, 2,000 (10,000*) Users, 20,000 (30,000*) Events
- 996020L2 Level 2 SMART Card: 80 Doors, 600 Zones, 10,000 Users, 30,000 Events
- 996020L3 Level 3 SMART Card: 160 Doors, 2,000 Zones, 65,000 Users, 60,000 Events
- 996020L4 Level 4 SMART Card: 240 Doors, 3,000 Zones, 100,000 Users, 100,000 Events
- 996002L5 Level 5 User expansion kit: 240 Doors, 3,000 Zones, 1,000,000 Users, 100,000 Events***
- See page 23-25 for full details on SMART card options

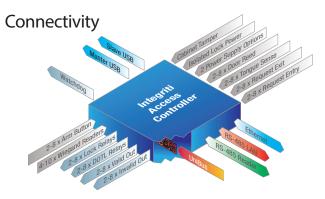


ABOVE:

IAC shown in 8 Door / 10 Reader configuration. (IAC with UniBus 2 Door / 2 Reader expansion devices connected). Housed in the WideBody enclosure with hinge plate, 8Amp PSU, Fire Door override relay card and 2x 17Ah batteries

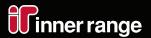
UniBus Device Compatibility Guide		UniBus Host Module			
		ISC	IAC	8 Zone Expander	ILAM
UniBus Device	8 Zone Expander	2	0	3	0
	8 Relay Expander*	4	4	4	2
	2 Door / 2 Reader Expander	0	3	0	3
	16 Floor Lift Interface	6	6	6	6
	RS-232/RS-485 UART	4	4	0	0
	Analogue Expander	4	0	6	0
	2 nd Network Interface Card	1	1	0	0

*Relays can be used for general purpose outputs when mapped to Aux $1\sim16$ on IAC, and will mimic the Lock & DOTL outputs on doors 1-8 when mapped to Aux 17 \sim 32



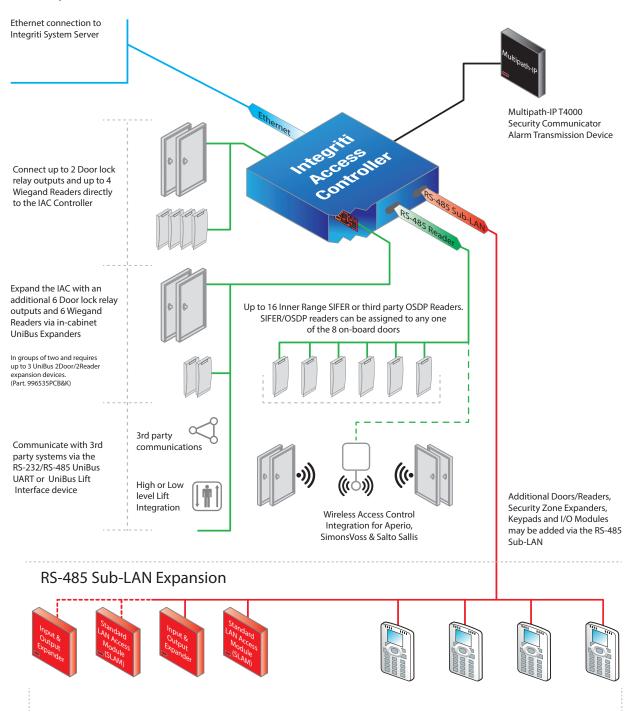
^{*}The quantity show in brackets is only applicable to IAC Controllers as the "IAC Level 0" factory option has been bundled with the Controller as standard. **Where the Smart Card is removed or replaced with a standard Level 0 Smart Card the IAC will revert to 16 Doors, 100 Zones, 200 Users, 10,000 Events

^{***} Level 5 is a physical expansion kit which is attached to the IAC Controller. (The IAC must first be operating at Level 4)



Integriti Access Controller Architecture

The IAC directly supports configurations for 2, 4, 6 or 8 doors with up to 16 SIFER or OSDP Readers for both in and out access control on all doors



Connect Up to 250 RS-485 Sub-LAN Modules (maximum of 99 of any one type)



Specifications

Enclosure Dimensions:

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	eq:wideBody-580(L) x 510(W) x 95(D) (mm): Part # 995204PE3 or 995204PE8 - houses 1 x 996035 + up to 3 x 996535*	
	Rack Mount - 2RU 680(L) x 420(W) x 85(D) (mm): Part# 995220PE3 or 995220PE8 - houses 1 x 996035 + up to 2 x 996535*	
PCB Size Code:	e Code: Integriti "A" size	
PCB Dimensions:	200(L) x 200(W) x 45(D) (mm)	
Weight:	8.2 k.g. (In medium enclosure including mains transformer, 7AH battery and cover)	
Installation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing)	
Electrical (For PCB Only)		
Power Supply Input:	11V to 14VDC (from external Integriti 3Amp or 8Amp SMART PSU)	
Current Consumption:	150mA standby, 220mA with on-board lock relays on, add 15mA for each active DOTL relay	
NOTE: Current consumption does not UniBus connections	include the current required by readers or other external devices such as locks, buzzers, lamps or any device attached to the DOTL, Valid, Invalid, RS-485 Reader and	
Reader Head Supply O/P:	5V/13.8V DC, 300mA maximum per reader, 1Amp max for all readers	
Over Current Protection:	Reader +V connections. Protected with self-resetting PTC's	
Typical Reader Current:	Allow 50~120mA for small Proximity Readers, 120~180mA for standard Proximity Readers (See reader datasheets for specific detail)	
RS-485 Reader LAN Current:	Allow 75~150mA per SIFER reader connected	
Contact Ratings		
Lock Relays:	5 Amps @ 30VDC	
DOTL Relays:	1 Amp @ 30VDC (Door Open Too Long output)	
Connections		
Ethernet:	10/100 Ethernet Port	
JSB Host:	USB type "A" connection	
JSB Slave:	USB type "B" connection	
Port Zero:	5 Pin header for PC or Multipath-IP STU connection	
Smart Card Slot:	For use with Smart Card (System Options Card)	

 $\label{eq:medium-460(L) x 358(W) x 85(D) (mm): Part# 995201PE3 or 995201PE8 - houses 1 x 996035 + 1 x 996035* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE8 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE8 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE8 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE8 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE8 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE8 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE3 or 995203PE3 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE3 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE3 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE3 - houses 1 x 996035 + up to 3 x 996535* \\ XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE3 - houses 1 x 996035 + up to 3 x 996035 + up to 3$

External Power Supply Monitoring (Compatible with IR SMART Power Supplies)

Includes Lock+, Lock-, NO/COM/NC

Includes Reed, 2 x 0v, Tongue, REN, REX, DOTL contacts

Includes Lock+, Lock- connections from external PSU

1 x UniBus Host expansion port for up to 6 local UniBus devices

1 Includes LAN+, LAN-, A, B, Auto addressing for SIFER Readers

10way header block for connection to Integriti power supplies

1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP switches)

Includes Valid, Invalid, OV, Reader+, D1, D0, ARM

2 pin connection for cabinet tamper switch

2 pin connection for remote monitoring system

AC Fail:	External PS AC Fail	
Low Battery:	External PS Low Battery	
LAN Fuse:	External PS LAN Fuse	
Detector Fuse:	External PS Detector Fuse	
Low Volts:	External PS Low Volts	
PSU Fail:	External PS Fail	

Compliance

Lock 1 & 2:

Door 1 & 2:

Wiegand Reader Ports x 4:

Lock Power Input:

Watchdog Output:

Cabinet Tamper:

UniBus Port:

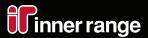
RS-485 LAN:

RS-485 Reader:

External Power:

Compnance	^	
Electrical		
Environmental	RoHS 🕱	

^{*} Additional external power may be required for 3Amp models.



Integriti Access Controller (IAC)

Ordering Options







UniBus Door Expander 996535PCB&K

Integriti UniBus 2 Door Expander PCB & Accessories (Includes 270mm UniBus patch cable)



IAC Controller shown in 8 Door configuration. Housed in a WideBody Enclosure with 8Amp SMART Power Supply & 3 x UniBus Door Expanders. (IK-996035WB8PS Kit)

The optional Fire door emergency release relay card is also shown. (Part 995916)

The IAC Controller is available from Inner Range distributors in kit form (These are kitted by the distributor)

IK-996035M2PS Integriti IAC 2 Door Kit Medium Enclosure with 3Amp SMART PSU IK-996035WB4PS Integriti IAC 4 Door Kit WideBody Enclosure with 8Amp SMART PSU IK-996035WB6PS Integriti IAC 6 Door Kit WideBody Enclosure with 8Amp SMART PSU IK-996035WB8PS Integriti IAC 8 Door Kit WideBody Enclosure with 8Amp SMART PSU



995201PE3





995204PE8



Enclosures to Suit IAC

Medium - 995201PE8 with 8Amp SMART PSU Houses 1 x 996035PCB&K & 1 x 996535PCB&K

Medium - 995201PE3 with 3Amp SMART PSU Houses 1 x 996035PCB&K & 1 x 996535PCB&K

Medium - 995201I empty enclosure only

XLarge - 995203PE8 with 8Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K

XLarge - 995203PE3 with 3Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K*

XLarge - 995203 empty enclosure only

WideBody - 995204PE8 with 8Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K

WideBody - 995204PE3 with 3Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K*

WideBody - 995204 empty enclosure only

WideBody - 999027 hinged expansion plate kit

Rack Mount - 995220PE8 2RU drawer with 8Amp SMART PSU

Houses 1 x 996035PCB&K & up to 2 x 996535PCB&K

Rack Mount - 995220PE3 2RU drawer with 3Amp

Houses 1 x 996035PCB&K & up to 2 x 996535PCB&K* Rack Mount - 995220 empty enclosure only

* Additional external power may be required for enclosures with 3Amp PSU



Power Supplies to suit IAC

996092 8Amp 13.75VDC SMART Power Supply Module, PSU only 996091PCB&K 3Amp 13.75VDC SMART Power Supply PCB & accessories

PRO636001 D Integriti Access Controller (IAC) Hardware Data Sheet June 2018. The specifications and descriptions of products and services contained in this data sheet were correct at the time of publishing, Inner Range reserves the right to change specifications or withdraw products without notice.

