

The Integrati Access Controller (IAC) is a state-of-the-art IP connected intelligent Controller. Dedicated to Access Control applications, the IAC directly manages up to 8 doors locally or 40 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 end result is a solution that is incredibly quick, robust and highly available.

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 for Inner Range SIFER or third party OSDP readers. 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. INTG-996535PCB&K). This allows the IAC to directly manage 2, 4, 6 or 8 doors, and up to 10 Wiegand readers. The RS-485 Reader port accommodates up to 16 Inner Range SIFER multi-drop readers (Part. INTG-994720), providing 'in & out' directional access control for each door. The flexible, modular design of the IAC's system parameters and Sub-LAN architecture allows a system to consist of just one single standalone Controller, or a larger system 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 100,000 Users, 512 Zone Inputs, 512 Outputs, 80 SIFER Readers and 40 Doors. Further expansion is available where more than 100,000 users are required.



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 8 compatible OSDP Readers
- Wiegand Reader ports – 4, expandable to 10 via UniBus
- 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)
- 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
- Hardware Options Card Slot (Smart Card)
- Firmware Upgrade via USB or Software
- Choice of 4 enclosure sizes

Integrati IAC Standard Dimensions (Europe)

- Users – 65,000
- Events – 60,000
- Sub-LAN RS-485 Modules – 8
- Sub-LAN RS-485 Keypad/Terminals – 48

Integrati IAC Expanded Mode Dimensions

- Users – 100,000**
- Events – 100,000
- Sub-LAN RS-485 Modules – 16***
- Sub-LAN RS-485 Keypad/Terminals – 80***

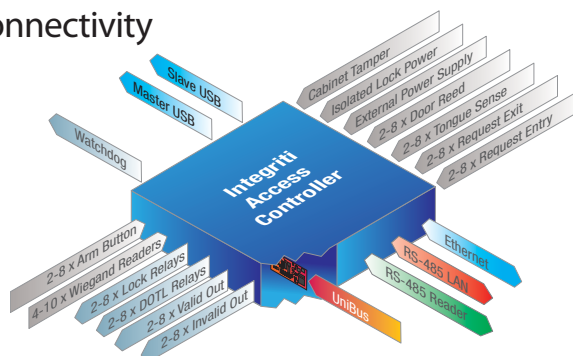
** Further options for above 100,000 users are available.

*** Requires INTG-996031 "IAC Expanded Mode" license. (Smart Card License)

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

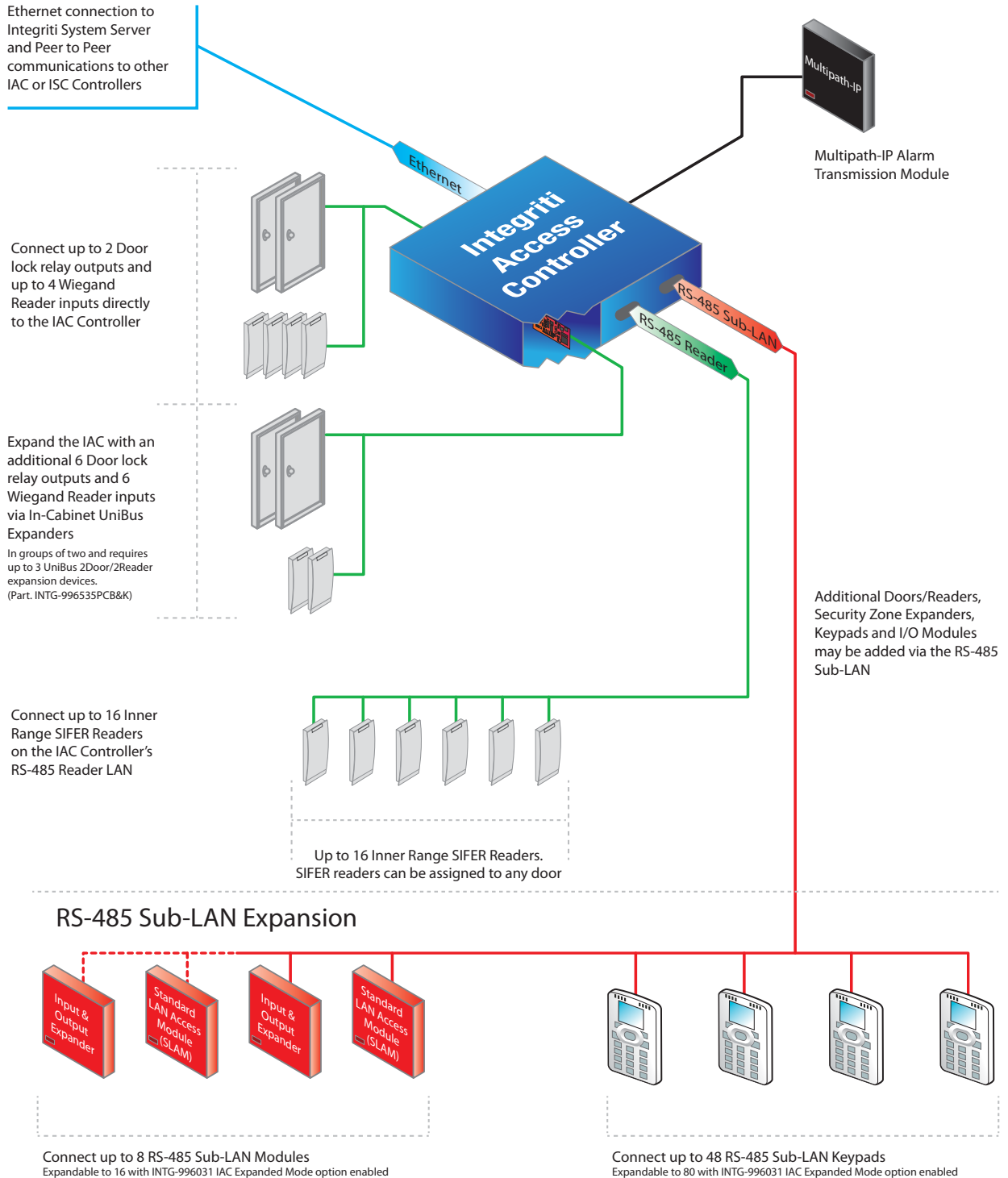
* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

Connectivity



Integrati Access Controller Architecture

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



Specifications

Physical

Enclosure Dimensions:	Medium - 995201PEI Series - 460(L) x 358(W) x 85(D) (mm) (with 3Amp PSU - houses up to 4 doors)
	XLarge - 995203PEI Series - 702(L) x 358(W) x 85(D) (mm) (with 3Amp PSU - houses up to 8 doors)*
	WideBody - 995204PEI Series - 580(L) x 510(W) x 95(D) (mm) (with 3Amp PSU houses up to 8 doors)*
	Rack Mount - 995220PEI Series - 2RU 680(L) x 420(W) x 85(D) (mm) (with 3Amp PSU - houses up to 6 doors)*
PCB Size Code:	Integrati "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 - 50°C @15% - 90% Relative humidity (non-condensing)

Electrical (For PCB Only)

Power Supply Input:	11V to 14VDC (from external Integrati 3Amp SMART Power Supply)
Current Consumption:	150mA standby, 220mA with on-board lock relays on, add 15mA for each active DOTL relay
NOTE: Current consumption does not 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 UniBus connections	
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 data-sheets 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
USB Host:	USB "A" type connection
USB Slave:	USB "B" type connection
Port Zero:	5 Pin header for PC or Multipath-IP STU connection
Smart Card Slot:	For use with Smart Card (System Options Card)
Lock 1 & 2:	Includes Lock+, Lock-, NO/COM/NC
Door 1 & 2:	Includes Reed, 2 x 0v, Tongue, REN, REX, DOTL contacts
Wiegand Reader Ports x 4:	Includes Valid, Invalid, 0V, Reader+, D1, DO, ARM
Lock Power Input:	Includes Lock+, Lock- connections from external PSU
Cabinet Tamper:	2 pin connection for cabinet tamper switch
Watchdog Output:	2 pin connection for remote monitoring system
UniBus Port:	1 x UniBus Host expansion port for up to 6 local UniBus devices
RS-485 LAN:	1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP switches, 8 LAN Modules, expandable to 16)
RS-485 Reader:	1 Includes LAN+, LAN-, A, B. Auto addressing for SIFER Readers
External Power:	10way header block for connection to Integrati power supplies

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

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

Electrical	
Environmental	

* Additional external power may be required.

Ordering Options



Integrati IAC Controller
INTG-996035EUPCB&K
 Integrati IAC Controller PCB
INTG-996031
 Integrati IAC Expanded Mode (Smart Card License)



UniBus Door Expander
INTG-996535PCB&K
 Integrati UniBus 2 Door / 2 Reader Expander PCB & Accessories (Includes 270mm UniBus patch cable)



Enclosures to Suit IAC

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

Medium - INTG-9952011 empty enclosure only

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

XLarge - INTG-995203 empty enclosure only

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

WideBody - INTG-995204 empty enclosure only

WideBody - INTG-999027 hinged expansion plate kit

Rack Mount - INTG-995220PEEU 2RU drawer with 3Amp SMART PSU
 Houses 1 x INTG-996035EUPCB&K & up to 2 x INTG-996535PCB&K*

Rack Mount - INTG-995220 empty enclosure only

* Additional external power is required for 6 and 8 door configurations.



Power Supply to suit IAC
INTG-996091PCB&K 3Amp 13.75VDC SMART Power Supply PCB & Accessories