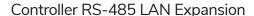
Integriti Security Controller (ISC)

The Integriti Security Controller (ISC) is an IP-based master controller for the Integriti modular hardware system. Equipped with 16 Zone Inputs, 2 Auxiliary Relay Outputs, Power Supply, Ethernet Port, Modem, and Internal/External Siren outputs, the ISC can be used either stand-alone or expanded further via its UniBus and RS-485 Sub-LAN ports. The flexible, modular design of the ISC allows a single stand-alone controller to be expanded to form a network of IP or RS-485 expansion modules supporting up to 3,000 Zone Inputs, 3,000 Outputs, 250 Areas and over 1,000 Card Readers and 250 Doors. User capacity of up to 100,000 users is available, and capacity for 1,000,000 users is also available with the User Expansion Kit (Part. 996002L5).

The ISC also offers a UniBus in-cabinet expansion interface where a variety of UniBus I/O and communications devices can be connected directly to the controller and housed within the same tamper-protected enclosure. Integriti's multi-controller architecture allows any number of ISC's 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.



Further expansion and functionality is realised with the addition of sub-LAN expansion modules which are connected to the Integriti Security Controller via the RS-485 LAN. These modules can also be connected via standard Ethernet networks if connected using Ethernet Bridge or CLOE devices.

Ethernet Connected Services

Connectivity to Integriti Software

SkyTunnel® Cloud Services & Smart Phone

Peer to Peer communications
 Automation Interface

· EMS / Lift Access Control Integration

· BMS / HVAC Integration

Main Controller 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)
- 16 Zone Inputs Multistate or Analogue
- 2 Auxiliary Output Relays & separate Watch Dog Output
- Dedicated Tamper Input
- Internal & External Siren Outputs
- RJ-12 PSTN Dialler/Modem Connection
- Intelligent Power Control via Smart Fuses
- 32 Bit ARM CPU with Real Time Clock
 64 MR RAM (A CR Micros SR Marrows)
- 64 MB RAM / 4 GB Micro SD Memory
- Smart Card Slot
- Firmware Upgrade via USB, LAN or Software

Hardware Expansion Capabilities

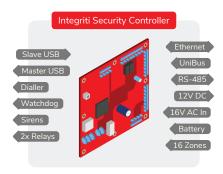
- Zone Inputs Expandable to 32 via UniBus 3,000 via RS-485 Sub-LAN
- Auxiliary Outputs Expandable to 32 via UniBus 3,232 via RS-485 Sub-LAN
- Doors Expandable to 250 via RS-485 Sub-LAN
- Readers Expandable to 1,584 via RS-485 Sub-LAN
- $\bullet~$ On-board User capacity -100,000, 1,000,000 with User Expansion Kit fitted
- On-board Review Events 100,000
- Ports RS-232 / RS-485 Serial Ports Expandable to 8 with UniBus UART



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

^{*}Relays can be used for general purpose outputs when mapped to Aux 1~16 on IAC, and cannot be mapped to Aux 17~32

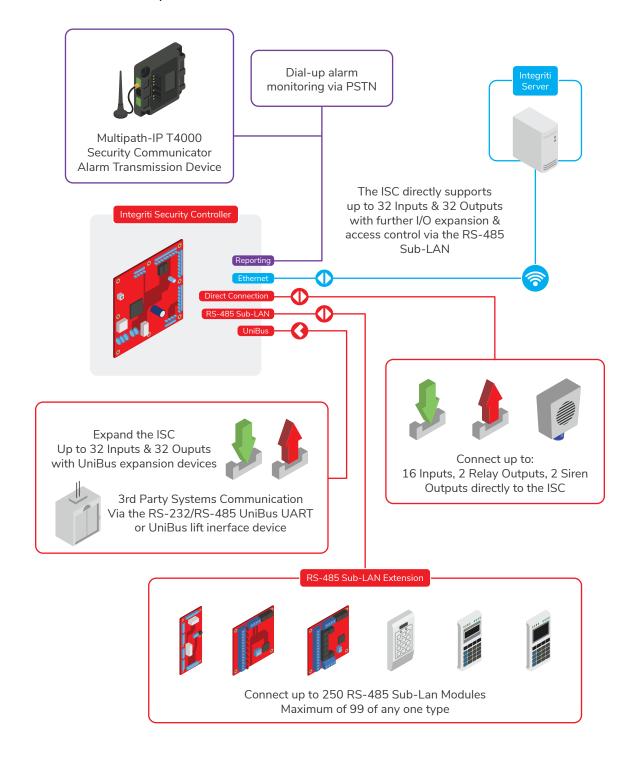
Connectivity



Integriti Security Controller (ISC)

Integriti Security Controller Architecture

The ISC directly supports up to 32 Inputs and 32 Outputs with further I/O expansion and access control via the RS-485 Sub-LAN



DATA SHEET Integriti Security Controller (ISC)

Specifications

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Environmental

Electrical		(F A)	LLLFLRIVIII					
Compliance	A	-	TELEPERMIT					
Transformer:	Shorted	2.2 AMP	275mA	18 AH	480mA			
Transformer:	Shorted	2.2 AMP	275mA	7 AH	1.2A			
1.5A Plug Pack:	Not shorted		275mA	7 AH	700mA			
AC Source	Setting	Limit	Current	Capacity	Current			
Current Consumption AC Source	JP5	Total Current	Static Controller	Batterv	Max Ancillary			
	Up to 250 RS-485 Sub-LAN Modules (maximum of 99 of any one type)							
UniBus In-Cabinet Expansion: RS-485 Sub-LAN:	Up to 6 UniBus devices							
RS-485 & UniBus Parameters								
Siren Drivers:	Each capable of driving a 4 Ohm speaker (or 2 x 8 Ohm in parallel)							
Low DC Voltage Alarm:	< 11V DC +/- 100mV							
Maximum Ripple:	At maximum ancillary load current: < 200mV P-P / 75mV RMS							
LAN "POS" & DET+ Smartfuse:	2 Amperes							
LAN "POS" & DET+:	Output Voltage: 13.75V DC -0.15/+.05 V (When AC power Present)							
Deep Discharge Protection:	Activates at 10.4 V +/-100mV. Restores at 12.4V +/- 100mV							
Low Battery Alarm:	5 Amperes < 11V DC +/- 100mV							
Battery Input Fuse:	Use 7.2AH or 18AH Lead Acid Type: Max 18AH 5 Amperes							
12V, Sealed Battery Capacity:	13.75V DC -0.15/+.05 V (AC power required)							
Battery Charger Output:	16 to 18V AC. 50/60 Hertz							
PCB AC Input Voltage:	Separate AC mains input fuse. 1.0 AMP Slow Blow M205 (20mm)							
Current Consumption: Fuse Protection:	Maximum 500 mA from 240V AC Source							
Transformer Output: Current Consumption:	16.5V AC. 50 Hertz							
Transformer Input Voltage:	240V AC -10% / +10%. 50Hertz							
Power Supply Type:	Type A (EN50131-1)							
Electrical	T 4 /5:	-0404 4)						
Cabinet Battery Bracket:	To suit 12V 7AH sealed lead acid battery							
	0°C - 50°C @15% - 90% Relative humidity (non-condensing)							
Shipping Weight : Installation Environment:	6.5kg (In medium enclosure with mains transformer and cover)							
PCB Dimensions:	200(L) x 200(W) x 45(D) (mm)							
Enclosure Dimensions:	Medium size enclosure 460(L) x 358(W) x 85(D) (mm)							
- '			050010 05001					

RoHS

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Ordering Options



996001AUPS Integriti ISC in Medium Enclosure



996001AUPCB&K Integriti ISC PCB & Accessories



996002L5 Level 5 User Expansion Kit for ISC/IAC (one million users)

Ordering Options - UniBus Devices for ISC



996500PCB&K UniBus 8 Zone Input Expander PCB & Accessories (Includes 270mm UniBus patch cable)



996515PCB&K UniBus 8 Relay Auxiliary Expander PCB & Accessories (Includes 270mm UniBus patch cable)



996520PCB&K UniBus 2 Port RS-232/RS-485 UART PCB & Accessories (Includes 270mm UniBus patch cable)



996791SS - UniBus Patch Cable 150mm 996791S - UniBus Patch Cable 220mm 996791L - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XL - UniBus Patch Cable 675mm