## **DATA SHEET**

## Integriti Security Controller (ISC) IP Only

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, 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.

## ISC Controller RS-485 LAN Expansion

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.

## Alarm Reporting

The IP only ISC does not include a modem dialler for traditional PSTN based alarm reporting. Alarm reporting can be achieved to a Multipath-IP enabled control room using SkyTunnel over Ethernet or by using a T4000 alarm communicator connected via serial cable.

Ethernet Connected Services

Connectivity to Integriti Software

SkyTunnel® Cloud Services & Smart Phone

Control Rooms

· Ethernet alarm reporting to Multipath-IP

· Automation. BMS & HVAC Integration

## **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
- AC Present Indicator Output
- Intelligent Power Control via Smart Fuses
- 32 Bit ARM CPU with Real Time Clock
   CANDERAN (ACRE)
- 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
- 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	
UniBus Device	8 Zone Expander	2	0	3	0	
	8 Relay Expander*	4	2	4	2	
	2 Door / 2 Reader Expander		3	0	3	
	16 Floor Lift Interface		6	6	6	
	RS-232/RS-485 UART	4	4	0	0	
	Analogue Expander	4	0	6	0	

<sup>\*</sup>Relays can be used for general purpose outputs when mapped to Aux  $1\sim16$  on IAC, and cannot be mapped to Aux  $17\sim32$ 

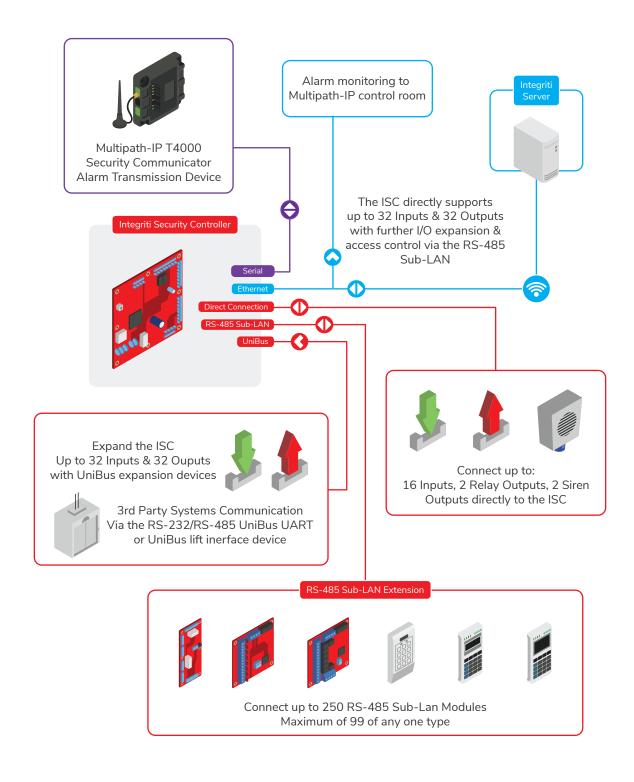
## Connectivity



## Integriti Security Controller (ISC) IP Only

## 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





# Integriti Security Controller (ISC) IP Only

## Specifications

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Titysical									
Enclosure Dimensions: Medium size enclosure 460(L) x 358(W) x 85(D) (mm)									
PCB Dimensions: 200(L) x 200(W) x 45(D) (mm)									
Shipping Weight:	6.5kg (In medium enclosure with mains transformer and cover)								
Installation Environment: 0°C - 50°C @15% - 90% Relative humidity (non-condensing)									
Cabinet Battery Bracket: To suit 12V 7AH sealed lead acid battery									
Electrical									
Power Supply Type: Type A (EN50131-1)									
AC-DC Adapter Input Voltage: 100-240 V AC 50/60 Hertz									
AC-DC Adapter Output Voltage: 24 V DC									
AC-DC Adapter Current Consumption: Maximum 250 mA from 240V AC source									
Transformer Input Voltage:	.0% / +10%. 50He	rtz							
Transformer Output: 16.5V AC. 50 Hertz									
Transformer Current Consumption: Maximum 500 mA from 240V AC source									
Transformer Fuse Protection:	Protection: Separate AC mains input fuse. 1.0 AMP Slow Blow M205 (20mm)								
PCB AC Input Voltage:	CB AC Input Voltage: 16 to 18V AC. 50/60 Hertz OR 24 V DC								
Battery Charger Output:	y Charger Output: 13.75V DC -0.15/+.05 V (AC power required)								
12V, Sealed Battery Capacity: Use 7.2AH or 18AH Lead Acid Type: Max 18AH									
Battery Input Fuse:									
Low Battery Alarm:	· ·								
Deep Discharge Protection:									
LAN "POS" & DET+:	· · · ·								
LAN "POS" & DET+ Smartfuse:									
Maximum Ripple:	At maximur	n ancillary load cur	rent: < 200m\	/ P-P / 75mV	RMS				
Low DC Voltage Alarm: <11V DC +/- 100mV									
Siren Drivers:									
Auxillary Relay Ratings:	30 V DC 1A	max							
Watchdog Relay Rating:	30 V DC 200mA max								
RS-485 & UniBus Paramete	ers								
UniBus In-Cabinet Expansion:	Up to 6 Uni	Bus devices							
RS-485 Sub-LAN:	Up to 250 RS-485 Sub-LAN Modules (maximum of 99 of any one type)								
Current Consumption			,		, , , , ,				
AC Source	JP5 Total Current Static Controller Battery Max Ancillary								
7.00 0041700	Setting	Limit	Current		Capacity	Current			
1.5A Plug Pack:	Not shorted	1.3 Amp	275mA	7 AH	700mA				
Transformer / AC-DC Adapter:	Shorted	2.2 Amp	275mA	7 AH	1.2A				
Transformer / AC-DC Adapter:	Shorted	2.2 Amp	275mA	18 AH	480mA				
Compliance	A	-							
Electrical		CE							

Environmental

RoHS

# Integriti Security Controller (ISC) IP Only

## **Ordering Options**



996001IPAUPS Integriti ISC in Medium Enclosure



996001IPAUPCB&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 Integriti UniBus 8 Zone Input Expander PCB & Accessories (Includes 270mm UniBus patch cable)



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



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



Spare UniBus patch cables 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