Integriti Security Controller

The flexible, modular design of the Integriti Security Controller architecture allows the expansion of a single controller to a vast network of RS-485 Sub-LAN modules, 100,000 Users, 3,000 Zone Inputs, over 3,000 thousand Outputs, 250 Areas/Zone Partitions and 240 Doors. Integriti's multi-controller architecture allows any number of Integriti Security Controllers to be combined within the one Integriti front end software package. The entire system appears as a single enterprise system, with an infinite number of Doors, Areas, Zone Inputs and Outputs. Users and permissions need only be programmed once.

The ISC controller comes with 16 Zone Inputs, 2 Auxiliary Relay Outputs, on board switch mode power supply, RJ45 Ethernet Port, RS-485 Sub-LAN port, modem, internal & external siren outputs. A variety of I/O and access control expansion cards can be connected directly to the ISC controller via UniBus.

ISC controller with UniBus In-Cabinet Expansion
- Up to 32 Zone Inputs
- Up to 32 Auxiliary Outputs (Relays)
- Up to 8 RS-232 / RS-485 Serial Ports

Further expansion and functionality is realised with the addition of expansion modules which are connected to the Integriti ISC controller via the RS-485 Sub-LAN (or via IP using LAN over Ethernet modules - Part# 995093).

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)
- 6 Zone Inputs - Multistate or Analogue
- 2 Auxiliary Output Relays
- Dedicated Watch Dog Output
- Dedicated Tamper Input
- Internal & External Siren Outputs
- RJ-12 PSTN Dialler/Modem Connection
- 6 Terminals supplying 13.75Vdc Detector Power
- Intelligent Power Control via Smart Fuses
- 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 & Interfacing
· EMS / Lift Access Control Integration

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 240 via RS-485 Sub-LAN
- Readers - Expandable to 1,584 via RS-485 Sub-LAN
- Users - Expandable to 100,000
- Review Events - Expandable to 100,000
- Ports - RS-232 / RS-485 Serial Ports – Expandable to 4 with UniBus UART

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

UniBus In-Cabinet Expansion

UniBus is an innovative in-cabinet bus which allows the connection of Expansion modules, Communications modules and Door & Reader Modules 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.
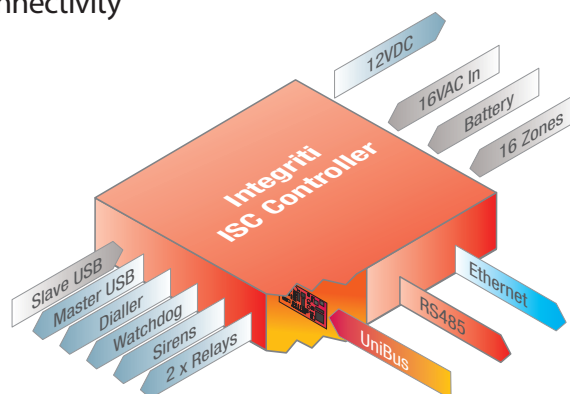
Up to six UniBus modules can be daisy chained to an ISC controller

UniBus Modules Available
- 8 Auxiliary Relay Card - Connect up to 4
- 8 Zone Input expansion card - Connect up to 2
- 2 Port RS-232/RS-485 Serial Card - Connect up to 4
- 4 Zone Industrial Analogue Input Card* - Connect up to 4
    *UniBus device planned for future release

Connectivity

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System Parameters

SMART Card Options

Part Number & Description

996020 - Blank Smart Card or no SMART Card fitted
16 Doors, 100 Zones, 200 Users, 10,000 Events

996020L1 - Level 1 SMART Card
40 Doors, 200 Zones, 2,000 Users, 20,000 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

Integration & Interfacing Options for SMART Cards

996021 - Smart Phone - iPhone/iPad (5 User Key)

996022 - Building Automation HLI

996023 - EMS Lift Integration HLI

996024 - SALTO SALLIS Door Integration (Per Door)

Specifications

Physical

Enclosure Dimensions	460(L) x 358(W) x 85(D) (mm)
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	0ºC - 40ºC @15% - 85% Relative humidity (non-condensing)
Cabinet Battery Bracket	To suit 12V 7AH sealed lead acid battery

Electrical

Power Supply Type	Type A (EN50131-1)
Transformer Input Voltage	240V AC -10% / +10%. 50Hertz
Transformer Output	16.5V AC. 50 Hertz
Current Consumption	Maximum 500 milliAMPs from 240V AC Source
Fuse Protection	Separate AC mains input fuse. 1.0 AMP Slow Blow M205 (20mm)
PCB AC Input Voltage	16 to 18V AC. 50/60 Hertz
Battery 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	5 Amperes
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/+.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
Siren Drivers	Each capable of driving a 4 Ohm speaker (or 2 x 8 Ohm in parallel)

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)

Current Consumption

AC Source	JP5 Setting	Total Current Limit	Static Controller Current	Battery Capacity	Max Ancillary Current
1.5A Plug Pack	Not shorted	1.3 AMP	275mA	7 AH	700mA
Transformer	Shorted	2.2 AMP	275mA	7 AH	1.2A
Transformer	Shorted	2.2 AMP	275mA	18 AH	480mA

Compliance

Electrical	C-tick ⚠ CE ✓ TELEPERMIT
Environmental	RoHS 🗑

ISC Integriti Security Controller

Ordering Options

Integriti Mobile

Get the App for iPad & iPhone

Available on the App Store

Integriti ISC in Medium Enclosure
996001AUPS – For Australia
996001EUPS – For Europe

Integriti ISC PCB & Accessories
996001AUPCB&K – For Australia
996001EUPCB&K – For Europe

Integriti ISC SMART Cards
996020 - Blank SMART Card (Serialised)
996020L1 - Level 1 SMART Card
996020L2 - Level 2 SMART Card
996020L3 - Level 3 SMART Card
996020L4 - Level 4 SMART Card
996021 - Smart Phone interface (iPhone/iPad)
996022 - Building Automation HLI
996023 - EMS Lift Integration HLI
996024 - SALTO SALLIS Door Integration (Per door)

PRO636001 Integriti ISC Controller Data Sheet April 2013

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.

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