

integrity

ENCRYPTED HIGH SECURITY



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The Integrity Encrypted High Security system consists of a suite of products which, together provide all the elements necessary to build a fully integrated high security system that provides complete end to end data encryption. The Integrity range of products includes Controllers, Input Expansion Modules, End of Line Modules, Keypads, Card Readers, Power Supplies and Equipment Enclosures.

The system's modular design provides scope for expansion whilst also boasting a hybrid architecture. The hybrid architecture supports both high-security (End of Line Modules - ELM's) and standard commercial grade (resistor network) areas at the same facility at the same time. By ensuring that budget allocations are made for the High Security zones only where necessary, the end result is a single, holistic and affordable security solution for the entire organisation.

Expansion of the Integrity system is achieved by installing additional encrypted modules to the High Security Controller's RS-485 LAN, or adding additional Controllers to the system. The entire platform, including multiple Controllers can be managed from the Integrity Enterprise software.

Integrity Controller Capacity:

- Encrypted RS-485 LAN Module Limit – 32
- Encrypted Inputs – 256*
- Standard Inputs – 1024*
- Security Areas - 250
- Doors – 264*
- SIFER Card Readers – 528*
- Users – 10,000 (Expandable to 100,000)
- Event Database – 30,000 (Expandable to 100,000)

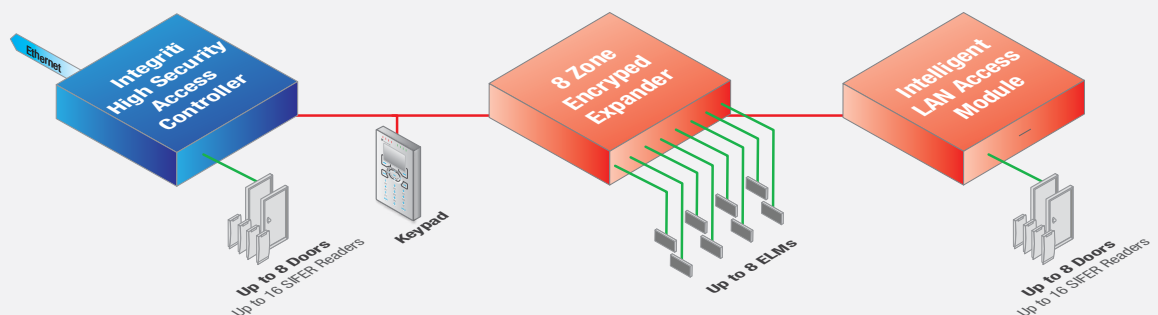
** Max quantity shown is per controller and assumes all 32 LAN modules will be of the same type. Multiple controllers can be used to greatly increase system capacity.*

Encrypted LAN Modules Supported:

- Integrity 8-Zone Encrypted Expander
- Integrity Encrypted Elite Keypad/Terminal
- Integrity Encrypted Prisma Keypad/Terminal
- Integrity Encrypted Prisma Keypad/Terminal with built in SIFER Reader
- Integrity/Integrity Standard 8 Zone Expander (Expandable to 32 Zones)
- Integrity/Integrity Standard LAN Access Module (SLAM – 2 Doors)
- Integrity/Integrity Intelligent LAN Access Module (ILAM – 2 Doors, Expandable to 8)
- SIFER Card Readers

System Features

Full End to End Encryption



LAN Communications

Integriti is a modular system that effortlessly scales with the addition of RS-485 LAN modules. Communications between the Controller, Expanders, Keypads, SIFER Card Reader (including fob/card credentials) are all encrypted to AES 128-bit with MAC authentication. Data encryption ensures secure LAN communications at all times, while the programmable supervisory polling system continuously monitors the LAN to detect cable tamper, cable fault conditions, module off-line and module substitution. The efficient data format used has been developed to ensure fast, secure and reliable communications regardless of the size of the system.

End of Line Modules

End of Line Modules (ELMs) are designed to be installed within, or adjacent to a detection device such as a PIR or Reed sensor switch. In conjunction with the Integriti encrypted expander, ELMs provide an encrypted data communications link between the detector and the control equipment.

During normal operation Integriti's supervisory polling system continuously monitors ELMs to detect any communication failure, device substitution or tamper conditions.

Integrated Access Control

In addition to a high security alarm system, the Integriti platform boasts an integrated access control platform. At the heart of Integriti lies the Integriti Access Controller (IAC). The IAC is an IP-based enterprise Access Controller which supports two doors and up to four readers on-board.* Inner Range SIFER Card Readers can be used with the IAC and is a multi-drop, RS-485 based reader that employs AES 128-bit encryption from the card through to the door module. Providing a far superior level of security than that of traditional Wiegand based card readers. SIFER readers utilise the Mifare DESfire EV1 card format.

** A further 262 doors and additional readers can be added via UniBus and LAN expansion modules*

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Integriti Controller Kit

Part INTGHS-996140EUC5

Part INTGHS-996154KC5 - Site Specific Key for Enclosure

The Integriti Controller kit is the core component of the Integriti Class 5 system. The Controller kit consists of the following elements each of which is pre-installed within the Class 5 system enclosure:

- Integriti Access Controller (IAC)
- 8 Input Encrypted Expander
- 4 x End of Line Modules (ELMs)
- 8Amp SMART Power Supply
- Integriti Elite Keypad
- 7 Way LAN Hub
- Class 5 WideBody Enclosure with seismic/vibration detector and site specific Restricted High Security enclosure lock. (Supplied with standard mains power lead for connection to a standard GPO)



Integriti IAC Controller

Part INTGHS-996140PCB&K

The Integriti Access Controller (IAC) is an IP-based enterprise Access Controller which functions as the host Controller for the Encrypted High Security system. The IAC's built in access control functionality also allows monitoring and control of doors.

- Integriti host Controller
- Supports up to 32 modules on RS-485 encrypted expansion LAN
- Support for 2 doors and up to 4 SIFER readers on-board
- Expandable to 8 doors/16 SIFER readers via UniBus devices
- Expandable to 264 doors/528 SIFER readers via UniBus devices and LAN modules
- Support for 10,000 user database (Expandable to 100,000)



For full technical details on the products featured on this page please refer to the products data sheets or installation manuals.



System Hardware

Integriti Encrypted Expander Module

Part *INTGHS-996105PCB&K*

The Integriti Encrypted Expander Module provides 8 separate ELM Zone inputs, Tamper & Seismic/Vibration Sensor inputs and 2 Siren speaker outputs. The Expander is supplied as a PCB and Installation Kit for installation into an Integriti enclosure or other compatible Integriti enclosures if not used in a Class 5 installation.

- RS-485 Encrypted LAN Module
- 8 x Separate High Security Zone Inputs (Used with ELMs)
- 2 x Siren Driver Outputs
- Tamper Input
- Seismic/Vibration Sensor Input
- The Expander should be powered using an 8Amp SMART PSU



Integriti End of Line Module Pack

Part *INTGHS-996106*

ELMs are used in conjunction with the Encrypted Expander Module and provide a fully monitored, encrypted and authenticated data communications link between end of line detection devices such as PIR's and Reed switches and the Encrypted Expander. Each ELM will also support multiple states (up to 8 states) on the Alarm Input. These can provide separate alarm statuses for the likes of Anti-Masking alarms on motion detectors or environmental alarms on PE Beams etc. without requiring a separate ELM for this purpose. The ELM has an Open Collector termination that can be used for control purposes, such as PIR LED control, input testing etc.

Pack contents:

- Pack of 4 ELMs
- Size 35(L) x 18(W) x 9.5(D) mm
- 1 x Alarm Input Connection
- 1 x Tamper Input Connection
- 1 x Output Connection - Open Collector - 50mA
- 1 x Data Connection for Link to Encrypted Expander
- Supports Multiple Alarm States (up to 8 states)



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Integrity Elite Keypad

INTGHS-996100C5

The Integrity Elite Keypad is a simple and robust interface into the Integrity system. Supporting Integrity AES 128-bit encryption the Elite Keypad's iconic menu navigation is quick and responsive. The plain-text display is easy to read and the back-lit LCD display and back-lit keys make it a versatile solution for many organisations. Both surface and flush-mount installation options are supported.



Integrity Prisma Keypad

Part INTGHS-996110C5

Part INTGHS-996110SIC5 – With Built In SIFER Reader

The Integrity Prisma Keypad provides a stylish and simple keypad to control the Integrity system. Supporting Integrity AES 128-bit encryption, the Prisma Keypad features a full colour LCD screen and utilises a simple icon driven navigation system controlled by a touch scroll wheel and function keys. End users can perform simple functions such as arming and disarming areas, isolating zones, walk testing and reviewing event history, all accessible via the full colour graphic display.

The INTGHS-996110SIC5 version also incorporates a built in SIFER Reader. This allows users to simply place their access card across Prisma's numeric keypad to access an associated door, logon to the Keypad or as the card credential for "Card + PIN" access control.



For full technical details on the products featured on this page please refer to the products data sheets or installation manuals.



System Hardware

Integriti Enclosure

Part INTGHS-996154EUC5

Part INTGHS-996154KC5 - Site Specific Key for Enclosure

The Integriti enclosure is a low profile metal enclosure equipped with power supply, seismic/vibration sensor and a site specific restricted high security key locking system.

Components include:

- Integriti WideBody Enclosure - Size 595(L) x 512(W) x 95(D) mm
- 8Amp SMART Power Supply
- Seismic/Vibration Sensor
- Equipment Mounting Plate
- Site Specific Restricted High Security Enclosure Lock (keys are ordered separately)



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Integriti Enterprise Software Part 997901 (Product Key)

The Integriti Enterprise Software Suite is a true cutting-edge solution. Featuring the very latest technologies, Integriti has been designed with an innovative and user-friendly design as its core focus. Integriti Enterprise offers everything your customer will need for complete system management. Infinti includes two applications:

- Integriti GateKeeper for everyday card-holder programming and monitoring and control of the system.
- Integriti System Designer for full system programming and configuration.

Integriti Software Expansion Options

- **Additional Workstation/Client (FIXED) - 997910**

This option allows an additional Integriti client workstation to connect to the Integriti server where the Integriti client is fixed to a designated workstation. This license is a cheaper way of connecting an additional workstation where the same user stays logged on for long periods of time.

- **Additional Workstation/Client (FLOATING) - 997911**

This option allows an additional Integriti client workstation to connect to the Integriti server where the Integriti client is not fixed to any particular workstation. This means that multiple users can connect to the Integriti server on different workstations but only one user at a time. A small number of these licenses can be used as a pool for a large group of users where each user only requires access for a short time.

- **Additional ISC/IAC Controller - 997912**

This license allows additional Integriti Controllers to be connected to the Integriti server.

- **Additional Door - 997940**



Software Components

Integriti Software Additional Features

Additional software features and enterprise level software solutions are also available as part of the Integriti Software Suite. For further details on these options please refer to the full Integriti product catalogue or contact Inner Range.

Integriti Software Options Index

- 997901 - Integriti Enterprise Software PRODUCT KEY
- 997910 - Additional Workstation/Client (FIXED)
- 997911 - Additional Workstation/Client (FLOATING)
- 997912 - Additional Controller ISC/IAC
- 997940 - Additional Door
- 997909 - Allow Remote RDP Connections
- 997926 - Smartphone-Server Interface
- 997920 - CCTV Integration – Initial 32 Cameras
- 997921 - CCTV Integration – Extra 8 Cameras
- 997923 - Advanced Reports
- 997930 - Communicator – Email, SMS & Pager Communications
- 997922 - PhotoID Card Design
- 997924 - User Qualification Manager
- 997925 - Advanced Alert – Alarm Escalation, Response Plans & Operator Challenge
- 997932 - Intercom Integration
- 997955 - Dynamic User Import Module (DUIM)
- 997957 - Active Directory Integration – Users
- 997958 - Active Directory Integration – Operators
- 997931 - Event Review I/O Communications
- 997939 - Milestone XProtect Access Control Manager (ACM) Integration
- 997936 - Biometric Reader Integration
- 997962 - RightCrowd Enterprise Integration
- 997935 - Visitor Management Integration
- 997934 - KeyLocker Integration
- 997933 - Schindler PORT Lift High-Level Interface
- 997960 - SNMP & System Health Monitor
- 997961 - Stanley Real-Time Location System (RTLS) Integration
- 997956 - Active User Rotation Module (AURM)
- 997950 - XML READ – 3rd Party Interface (Technology Partners Only)
- 997951 - XML WRITE – 3rd Party Interface (Technology Partners Only)
- 997952 - XML CONTROL – 3rd Party Interface (Technology Partners Only)



Europe

Inner Range (Europe) Ltd
Units 10 & 11 Theale Lakes Business Park Moulden Way,
Sulhampstead Reading, Berkshire, RG7 4GB
United Kingdom
Tel: +44 (0)845 470 5000
Fax: +44 (0)845 470 5001
email: integrity@innerrange.co.uk

innerrange.com