

Accredited Dealers

The Inner Range Accredited Dealer Program gives Inner Range customers easy access to a choice of experienced and reputable companies for the installation and service of their intruder alarm and access control system. It is a condition of accreditation that all Accredited Dealers abide by a published Code of Practice. For a company to hold Accredited Dealer status, they must at all times employ at least one Factory Certified Professional.

Inner Range strongly recommends that customers use an Accredited Dealer whose certification level suits their particular application. A list of current Accredited Dealers can be found at: www.innerrange.com/sales

Factory Certified Training

Inner Range provides three pathways for training and certifications:

1. Interactive Online Classroom Training.

Our structured classroom training allows individuals to learn from one of our 8 online training centres throughout the country. This style of training suits individuals who might want to complete the certification in a short duration or simply need that extra bit of assistance from our trainers. The assessment is conducted on the last day of the course.

2. Interactive Online Self-Paced Training.

This self-paced online content allows users who are unable to attend our interactive classroom training an opportunity to learn in their own time and at their own pace. These courses run all year and can be commenced at any time. Learning assistance is provided during standard business hours, or using our online discussion boards. Once the participant feels confident in their knowledge they simply need to attend one of the Inner Range assessment days to undertake the official test.

3. Training Assessment Days.

Inner Range certifications are competency based. Individuals who are familiar with the learning outcomes can simply attend an assessment day. Assessment days are conducted throughout the year at our 8 online training centres, conveniently located at Central Security Distribution branches.



Certified Technician

Basic to medium complexity Integriti systems. E.g.: a small business.





Advanced Technician

Medium to high complexity Integriti systems. E.g.: multi-site installations, large businesses, integrated solutions.



All certified technicians are issued with an ID card showing their level of certification and expiry date. Certifications are valid for 3 years and may be renewed for a further 3 years by passing the appropriate assessment. Certification ID cards should be available to be shown if requested.



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innerrange.com





Integriti INTEGRATED SOLUTIONS

Access Control | Intruder Detection | Security Management



Inner Range have been designing and manufacturing integrated Security and Access Control systems for 30 years. Today there are more than 140,000 installed Inner Range systems delivering state-of-the-art solutions to corporations, government departments and institutions all around the globe.



All these organisations rely on their Inner Range systems, great and small, to secure and manage their critical assets.

The Inner Range research centre in Melbourne, Australia is home to a large engineering and product development team which is supported by an even larger complement of dedicated test engineers, trainers and IT technical support specialists.

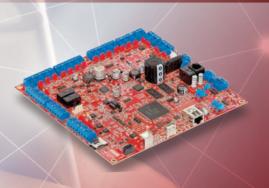
The Inner Range Europe facility in Reading, UK provides marketing, and product supply for this region as well as technical support services in that time zone.

Inner Range products are sold around the world by a network of authorised distributors who are committed to standards of service that reflect Inner Range's commitment to excellence.



The specifications and descriptions of products and services contained in this catalogue were correct at the time of publishing. Inner Range reserves the right to change specifications or withdraw products without notice.















The Integriti System

Integriti is an IP-connected integrated Access Control and Intruder Detection system which is modular and scalable by design. This means that Integriti is well suited for security applications in small commercial buildings through to large multi-campus institutions or enterprises that span the globe.

In addition to Integriti's powerful Access Control & Intruder features, a vast array of powerful interfaces to third party systems is also possible. The Integriti application becomes the control centre and hub of all interconnected sub-systems, thereby allowing the user to manage their entire security operation through the one intuitive desktop application.

The Integriti system can also be managed using web based interfaces and even mobile devices such as tablets or smart-phones.

The Integriti Technology Platform is the result of more than 25 years of continuous industry participation and product development by the people at Inner Range.

Integriti has set new industry standards and can offer real solutions in today's exciting yet demanding technology environment.

INTEGRITI Introduction for System Integrators

Features at a glance ...



Integration with Active Directory, HR, payroll and other database applications.

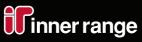
Apple and Android Apps

The Integriti Mobile Apps pack a powerful punch of accessibility and control for your Integriti Security and Access Control system. With the tap of a finger, these exciting Apps allow remote operation of your Integriti system from anywhere in the world!





http://www.innerrange.com/pd/Integriti-System/Mobile-Applications/Integriti-Mobile





Integriti Benefits of Integriti



Simplicity of Use

Large or small, everyday use of the Integriti system is simple. Unlock doors, turn on or off security areas all by simply presenting a card at a reader or by using the colour graphic keypad. Manage the entire system via intuitive Windows® based software.

Scalability

Integriti is perfect for small sites through to large multicampus institutions. Only pay for what you want when it's needed; Integriti's flexible modular design means it grows with demand as required. And because it's an IP-based networked solution, utilise new or existing I.T. infrastructure for boundless connectivity.

Affordable on any Scale

Integriti delivers a state-of-the-art solution with tangible cost savings through its integrated Security, Access Control and Building Automation functionality.

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Contemporary Design -Inner Range SIFER Card **Reader & Keypad**

Respond to emergency situations, lockdowns and alerts.

Manage WHS liability by leveraging competencybased access control permissions.

Use the Integriti system to:

of staff and visitors.

their responses.

government regulations.

Monitor and control the movement of all

Protect critical assets and manage the safety

Easily assign access permissions mandating who can go where and when, including visitor access.

Manage the reporting of security alarms and audit

Ensure compliance with business policies and

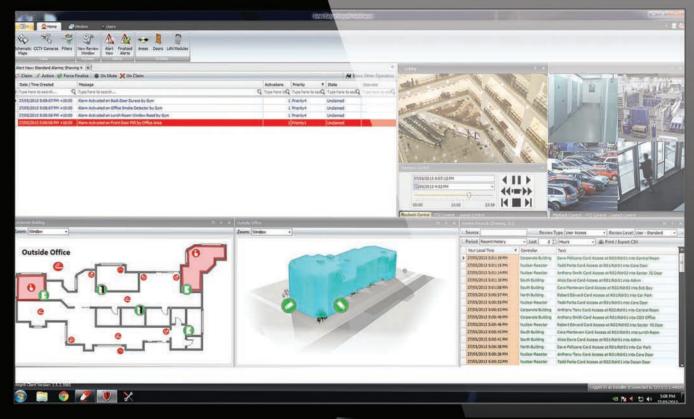
personnel and vehicles in the facility.

Remotely monitor and control the Integriti system with iOS and Android Apps.

Manage the entire security operation from a single user interface. With Integriti acting as the complete Integrated Security Management System (ISMS), integrate a variety of security sub-systems, such as CCTV, Biometrics, Mobile Duress, Lighting, Air-Conditioning, Intercom, Fire and much more.

Software





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Integriti The Software

Integriti The Software

The Integriti System Management 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 Professional offers everything your customer will need for complete system management. Integriti includes two applications:

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

Optional Web Client Interface and Smartphone Apps are also available.

Integriti Professional

Integriti Professional may be deployed on any number of local or remote sites. Individual sites retain their functional autonomy, while system users and permissions are managed globally across the entire organisation. Integriti Professional also supports a wide range of integration options to existing HR systems and a variety of third-party products.

Integriti Express

An Express version of Integriti is available for smaller single-controller sites. This is a great solution where the advanced features of the Professional version are not required.

Integriti Commissioning Software

Commissioning Software (CS) is also available for security technicians who are installing and commissioning Integriti systems. CS is provided to trained Inner Range security technicians.

Software features at a glance ...

Web Client Interface.



Programming and commissioning time significantly reduced via automated processes.



Build cardholder profiles by assigning multiple permissions with simple "Allow" or "Deny" functions.



Modern design, intuitive and simple to use.



Complete alarm management with powerful automated actions.

- Rich graphics with interactive floor plans and scalable vector based maps.
- Forensic audit trail recording every programming change with the ability to "roll-back" any change.
- Email, text message and pager communications.

Easy-to-use reporting such as Time on Site, Muster and detailed commissioning reports.





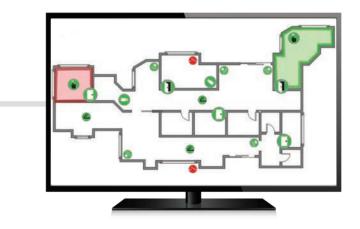
Jpgrade firmware for all Integriti hardware modules.



Client/Server architecture, fully compatible with modern computing platforms using Microsoft SQL databases.

Integration with other systems: CCTV, Intercoms, Building Automation, Personnel Tracking, Mobile Duress and many more. Use Integriti as an over-arching Security Management System for complete control of security and facility services.









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THE SOFTWARE Integriti Professional - Included Features

THE SOFTWARE Integriti Professional - System Expansion



Integriti Professional includes a powerful suite of tools and features that are standard as part of the base package, such as:



User/Cardholder Management

The incredibly flexible user permissions provide an easy-to-use, building block method of assigning access and security rights to cardholders. Cardholder profiles are easily created by assigning multiple permissions with simple "Allow" and "Deny" functions.

Basic Reporting

Single-click reporting to review the areas cardholders have accessed, what areas cardholders have access to, search event and alarm history, programming history and much more. Easily export reports in a variety of common file formats.



Schematic Maps

Rich graphics with interactive scalable vector based floor plans and maps. Effortlessly create maps using the built-in library of animated icons.



Security and Alarm Management

Complete alarm management with powerful automated actions.



Operator Permissions

Manage the operators that use Integriti software. Easily customise and define their access permissions levels with fine control.



Data Importation Import cardholder data from third-party systems.

System Health Monitoring

Monitor the health of both the Integriti hardware and software. Proactive notifications can alert security operators and security contractors if maintenance is required.



SkyTunnel Connectivity

SkyTunnel is an industry-first cloud-based service that provides hassle-free connectivity of Integriti hardware, software and mobile apps.

Intuitive Design

The Integriti System Management Suite is a true cutting-edge solution. Integriti boasts a contemporary and intuitive design that is simple to use and easy to learn.



System Designer and GateKeeper Applications System Designer is used for all aspects of system programming and configuration. GateKeeper is a dedicated application to simplify day to day monitoring and control of the Integriti system.

Integriti Professional Product Key - 996901

The Integriti Professional Product Key is the base requirement and all system expansion options and additional features are applied to this Product Key.

The following base level options are included with the initial Integriti Professional Product Key:

- 1. Connection of one Client Workstation (run on server or a desktop machine)
- 2. Connection of one Integriti Controller (ISC or IAC)
- 3. Connection of the first 16 Doors

System Expansion Options

Additional software licences may be applied to expand system capacity.



Additional Workstation/Client (FIXED) - 996910

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 licence 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) - 996911

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 licences can be used as a pool for a large group of users where each user only requires access for a short time.



Web Client Connection/Additional Web Client - 996908

The Web client is a mobile friendly responsive interface which provides access to the Integriti server using a standard web browser on desktop or mobile devices. This licence allows a single login session from a web browser. For multiple simultaneous sessions additional licences are required.

Additional ISC/IAC Controller - 996912

Allow Unlimited IAC Controllers - 996912IAC

This single licence allows an unlimited number of IAC Controllers to be connected to the Integriti server.



Additional Door - 996940

The base package of Integriti Professional includes the connection of the first 16 Doors. Additional Door licences are required (per door), where more than 16 Doors are needed. The Integriti server totals the number Doors across all Controllers that are connected to the server.



Allow Remote RDP Connections - 996909

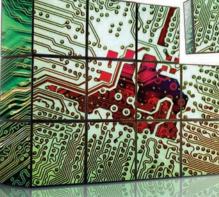
This licence is required to comply with the terms of the Integriti End User Licence Agreement (EULA) if remote desktop applications such as Windows® Remote Desktop or TeamViewer etc. are being used with the Integriti software.



Software



This licence allows additional Integriti ISC/IAC Controllers to be connected to the Integriti server.



THE SOFTWARE Integriti Professional - Optional Features



Optional Features

The optional features listed below allow the Integriti installation to be tailored to the customer's requirements.

Smartphone-Server Interface - 996926

This licence allows Apple or Android devices using the Integriti Mobile App to connect to an Integriti Server. This provides a global perspective of the entire security system, particularly useful in multi-controller installations. One Smartphone-Server interface licence is required for each Controller that is online.*

Each Smartphone-Server interface licence allows up to 5 simultaneous user connections with each user being allocated a connection slot for a fixed 7 day period which starts from their last successful login. If a user has not logged in within a 7 day period their slot may be used by another user. The Smartphone-Server and hardware based Smartphone-Controller interfaces work independently of each other and are licenced separately.

Please see page 24 of the Product Catalogue for Smartphone-Controller Interface.

*The Smartphone service is only enabled where the number of Smartphone-Server interface licences is equal to (or greater than) the number of online Controllers.



Mimic Viewer - 996906

The Integriti Mimic Viewer utilizes the technology of the Integriti Professional software solution and is packaged into a stand-alone installation of Integriti that connects directly to an Integriti Security Controller (ISC) or Integriti Access Controller (IAC). This connection is a secondary controller connection that only reads state information out of the controller, allowing the Integriti Professional software to remain the primary system management point.

HID Mobile Portal Integration - 996967

The HID Mobile Portal Integration is a link between Integriti Professional and the HID Mobile Credential Portal which allows Integriti Software Operators to allocate and manage HID Mobile Credentials from within the Integriti User Editor.



Partitioned Systems - 996915

In an integriti system Users (and other global entities) are synchronised across all the panels on a site. Partitioned Systems allows for entities to exist solely within the partition they were created in. Site Partitions can contain multiple ISCs & IACs and are entirely isolated from each other. For example, each Partition' can have its own local 'User 1' - and Card and PIN uniqueness is only enforced within a partition.

CCTV Integration - Initial 32 Cameras - 996920

The CCTV Integration licence allows various CCTV systems to be integrated into Integriti software and is licenced on a per camera basis. This initial CCTV Integration licence allows integration of up to 32 cameras, irrespective of the CCTV brand chosen. Please see Inner Range website for a list of compatible CCTV vendors and their respective integration capabilities.

CCTV Integration - Extra 8 Cameras - 996921

This licence allows expansion of the CCTV integration by an additional 8 cameras per instance of this licence.



Bosch Security Escort - 996963

The Bosch Security Esport license allows Integriti to integrate with Bosch Security Escort. The integration allows for a number of functions to be performed. For example, location and alarm information can be dynamically displayed within the Integriti Vector Schematics showing location of the event. System events, Transponder events and Transponder location changes can all be received and logged. User locations can also be updated based on alarm events from an associated transponder, and Bosch Security Escort Alarms and System Troubles can be cleared from Integriti.

Optional Features

Licence Plate Recognition Integration - 996966

Licence Plate Recognition Integration allows licence plate numbers, captured via a compatible CCTV system to be used as user credentials to provide access to carparks, entry gates and boom gates. A compatible CCTV system sends a licence plate recognition event to the Integriti server, where it is processed as a virtual card badge in the same way as a user presenting a card to a reader. This allows advanced access control features such as anti-passback, area control, operator challenge, user permissions and conditional access to be used on vehicle licence plates as cars enter a facility.

Compatible CCTV systems include Milestone, Hikvision, Hikvision iVMS and Axxon Next.

Advanced Reports - 996923

While the base package of Integriti Professional includes some basic reporting functionality, the Advanced Reports feature enables customers to generate highly flexible, more detailed and graphical based reports.

A large number of sample Advanced Reports come standard, such as Time on Site, Muster, User Access History and much more. For the technically minded, these sample reports can be used as templates to customise and generate other reports according to the needs of the customer. Alternatively, Inner Range offers a professional report writing service with quoted prices varying according to the complexity of the client's requirements.

Communicator - Email, SMS & Pager Communications - 996930

This licence allows messages to be sent from the Integriti server, either manually or automatically, using the various communication paths available.

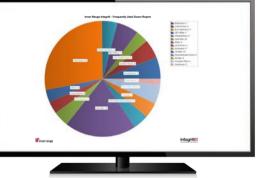
- E-mails: Specify an SMTP mail server.
- SMS Text Messaging: Connect to Clickatell or Message Media commercial web based SMS providers using a pre-opened account. These SMS providers will charge for their service and any associated costs are between the service provider and account holder.
- Pager: Connect to a pager server using the TAP over IP protocol.



PhotoID Card Design - 996922

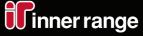
This licence allows the customised designing and printing of PhotoID access cards. In addition to this software licence, PhotoID printing will always require the use of a compatible third party card printer (supplied by others).











INTEGRITI Professional - Enterprise Optional Features

INTEGRITI Professional - Enterprise Optional Features

Enterprise Optional Features

The following optional features deliver enterprise level functionality. Some of these features may be more complex to specify or deploy. It is, therefore, Inner Range's recommendation that security professionals consult with the Inner Range sales or support team to assist with the sales or deployment process.

User Qualification Manager - 996924

This licence is intended to facilitate the implementation of various WHS criteria by enforcing the currency and renewal of user specific qualifications and permits, before access to designated areas will be allowed by the system. Both time-based and credit-based qualifications are supported.

Advanced Alerts - Alarm Escalation, Response Plans & Operator Challenge - 996925

This licence is intended for use by on-site guards and security managers. It allows a framework within the Integriti software to escalate designated alarms to specific operators and tailor and implement response plans for specific situations. It also enables operator challenge by guards in response to photo pop up on an access event as well as an assortment of other alarm management functionality.

Guard Tour Manager - 996927

The Guard Tour Manager is a configurable framework where guard tours can be created, scheduled and monitored in real time.

The application offers a high amount of flexibility in the creation of steps, tasks, actions and warnings for each tour. Progress of guard tours can be monitored in real time via Integriti's graphical map interface and via live video feeds from an integrated CCTV system. Warnings and alarms can also be raised where the timing or the expected sequence of events within a tour has not been met. Reports can also be generated providing full detail of active and completed tours.

Intercom Integration - 996932 | 996932CG

Intercom integration allows operators to manage intercom calls through Integriti software. Calls may be answered, forwarded, initiated and closed, to name just a few. Calls appear within the dedicated Intercom Call Queue display in Integriti as well as allowing intercoms to be placed on Integriti maps for ease of control. To date, the following intercoms have been integrated:

Aiphone IX Series • Jacques • Stentofon • Commend • CellGuard

CellGuard Intercoms require the 996932CG licence option*.

Aiphone GT Series Intercoms are integrated via a hardware module - see 994210 on page 66*.

- Hikvision Intercoms are integrated as a CCTV system see 996920 on page 11*.
- IIS/Kenwei Intercom integration see UniBus UART on page 57*.

*The 996932 Intercom integration software licence option is not required for integration of these intercoms.

Dynamic User Import Module (DUIM) - 996955

This licence allows for users created in another application, to be automatically imported into the Integriti software with a predefined set of permissions. It also provides for the automatic modification or deletion of users in the Integriti software if those users are modified or deleted in the other application. User data is easily imported via a CSV file transfer from the third party system.

EkoTeK User Location System Integration - 996928

EkoTek is a wireless mesh technology that provides accurate location of alarm signals to identify user location. EkoTek is primarily used as a Duress/Lone Worker location system but also features two way paging that can be integrated* to Integriti System Designer. Integration of the EkoTek system and Integriti allows EkoTek receivers to be associated with Locations and Areas in Integriti and can provide live and accurate location updates for Integriti Users. User or Area/Location Alerts for Personal Security alarms generated by EkoTek can be raised and all events from the EkoTek system are logged to Integriti review. User locations (Tag-board) can be displayed in real time using Area or User filters within the Integriti Gatekeeper application.

*Requires an additional licence: Communicator - Email, SMS & Pager Communications - 996930 - see page 12

Enterprise Optional Features



Inner Range Mobile Reader Application - 996907

The Inner Range Mobile Reader application is an Android smart-phone app that allows security personnel to visually view and verify cardholder details with a simple scan of a user's access card. The Mobile Reader can be used for on-the-spot identity verification, suspension of access rights and as a "check-in" reader for emergency mustering assembly points. (See page 17 for full details)



Application Layer High Availability (HA) Solution - 996965

The Integriti Application Layer High Availability Solution allows Integriti servers to be deployed in a high availability, fault tolerant business continuity environment. The HA Solution uses multiple Integriti servers which are cryptographically paired to create a highly secure fault tolerant multi-server network. Integriti client workstations and controllers can connect to any available Integriti server within the network, therefore minimising potential system downtime and data loss. The solution allows for multiple servers within one location or split-site deployments where off-site disaster recovery solutions are required. The HA Solution can also be used in conjunction with Microsoft Windows Server Failover Clustering (WSFC) and Microsoft SQL database clustering to create an entirely fault tolerant enterprise level high availability solution.

Active Directory Integration (Users) - 996957

This licence allows the synchronisation of Users in the Integriti software with the same Users in Windows Active Directory. New Users and changes to Users in the Active Directory database are pushed down into the Integriti database in accordance with mapping tables pre-configured using an import configuration tool in the Integriti software. The integration is also bi-directional such that user changes made in the Integriti software can be written back to Active Directory. This effectively means that Users need only be entered into one system, therefore reducing operational and training costs, saving time and improving data consistency.

Active Directory Integration (Operators) - 996958

This licence enables Active Directory operator integration for Single Sign-On (SSO). Integriti operators are not required to enter an Integriti login username and password as their credentials will be validated with Active Directory based on their Windows login. The Single Sign-On authentication delivers fast and efficient use of the Integriti application. As a further benefit, Active Directory can provide comprehensive password management, including adherence to any global password policies that may have been deployed by the organisation.



Event Review I/O Communications - 996931

This software module is in effect a TCP/IP or serial based bi-directional gateway to other systems. This licence allows the Integriti software to send a selected subset of Integriti event data to third party applications. It also allows the Integriti software to receive, process and action event data received from third party systems. The mechanism for this transaction is via an ASCII based text stream.



Milestone Access Control Manager (ACM) Integration - 996939

Integriti's high-level interface with Milestone's ACM is IP-based and bi-directional. ACM integration allows Milestone to be the single master "head end" security management platform, whereby Integriti functions as an access control and security sub-system. Cardholder information, alarms and events, as well as door and area statuses in Integriti, are sent in real-time to Milestone. Operators are therefore empowered to effectively manage their security operation by seamlessly monitoring Integriti alarm and access points through Milestone. Operators may also unlock/lock doors and control areas with the added ability to associate doors and areas to cameras in Milestone, thus facilitating efficient situational awareness and immediate visual verification of alarms.



Software



Integriti Professional - Enterprise Optional Features

Enterprise Optional Features



Biometric Reader Integration - 996936

Integration between Integriti Software and Biometric reader management systems allows data such as user names and access permissions to be communicated from Integriti to the Biometric system software. To date, the following Biometric Reader systems have been integrated:

Safran Morpho Manager

RightCrowd Enterprise Integration - 996962

RightCrowd software offers industry leading Workforce and Visitor Management solutions suitable for enterprises of any size. Integriti provides a high-level IP-based interface supporting bi-directional synchronisation of users, permission groups, gualifications and review event data. As a powerful access control system integrated with RightCrowd, Integriti will form an integral part of an overall workforce management strategy physically ensuring compliance with government and organisational policies and procedures. The integration empowers organisations to easily implement complex operational requirements such as Safety and Fatique Management, Inductions, Competencies, Visitor Management, Contractor Tracking and much, much more. RightCrowd's flexible package options will suit any operational and budgetary requirements.

Visitor Management Integration - 996935

This licence allows a Visitor Management system to push user/visitor information into the Integriti database. The Visitor Management system, therefore, can be the single front-end interface for enrolling visitors with no need to use the Integriti software for such tasks. User/visitor information can include the name, PIN number, card number, access permissions and a variety of other fields. To date, the following Visitor Management systems have been integrated:

HID EasyLobby

Locker/Key Locker Integration - 996934 | 996934TRK

This licence enables a bi-directional integration with various Locker/Key Locker systems. The integration facilitates user database synchronisation between Integriti and the Locker system as well as receiving alarms from the Locker system to leverage Integriti's powerful alarm management capabilities. To date, the following Locker systems have been integrated:

- C.Q.R.iT (by CIC Technology)
 KeyWatcher (by Morse Watchmans)
- Traka (by Assa Abloy Requires 996934TRK licence)

Schindler PORT Lift High-Level Interface - 996933

This licence is required to facilitate a high-level lift interface with the Schindler PORT lift system. This interface provides a specific set of functionality and consultation with the Inner Range pre sales team is therefore required.

Inner Range offers high-level lift integration to various vendors other than Schindler however these integrations are enabled in the Integriti hardware controllers with the use of smart card licences. Please consult with the Inner Range pre-sales team for any high-level lift inquiries. Also see page 24 of the Product Catalogue for other lift vendors.

SNMP & System Health Monitor - 996960

The SNMP & System Health Monitor is designed to alert IT administrators to a number of critical runtime errors that may occur with Integriti or associated SQL server instances. The application provides support for SNMP servers and allows various aspects of the following Integriti functions to be monitored: Active Directory Service, Database, Inner Range IP - Server - Controller communications (IRIP), Reports, Remote Procedure Call (RPC), Scheduler, and Server Services. The SNMP interface is bi-directional, allowing Integriti to generate SNMP traps (alarms) to be received by an SNMP manager or conversely, SNMP traps from third party systems can be sent to Integriti to be processed by Integriti's powerful alarm management sub-system.

Enterprise Optional Features

Stanley Real-Time Location System (RTLS) Integration - 996961

Integriti's high-level integration with Stanley's RTLS "MobileView" platform is IP-based and unidirectional. Stanley's Real-Time Location System is a powerful tracking system that can be used for a plethora of purposes, such as Live Personnel Tracking, Asset Tracking, Mobile Duress, Mother-Baby Tagging, Patient Wandering and much more. Alarm and event information is sent from MobileView into Integriti where Integriti can process the information in its alarm management infrastructure and display events within Integriti schematic maps (live personnel tracking display not supported in schematic maps, only status conditions).

Salto XS4 Integration (SHIP Interface) - 996941

Integration to the Salto XS4 (SHIP Interface) allows the synchronisation of users and access permissions between the Integriti system and the Salto XS4 system. The Integriti server provides the head-end control for the entire system allowing a single point of administration for all events, users and doors, including traditional hardwired doors and Salto offline/wireless locking devices located on the Salto XS4 network. Locking devices within the Salto XS4 system can be integrated with Integriti on a per door basis.

VingCard Integration - VingCard as Master - 996937

VingCard is a system often deployed to provide access control for guests checking into rooms in hotels or apartment complexes. In facilities such as these, the Integriti system is also deployed to provide real-time monitored access control for the base building elements such as elevators, staff doors, service doors and car parks. Integration between VingCard and Integriti allows user card data to be sent from VingCard to Integriti, allowing guest or tenant access to doors managed by Integriti (such as lifts, perimeter doors, etc.). A single licence will allow synchronisation of 500 active VingCard user cards. Where more than 500 cards are required additional licences should be ordered.

Active User Rotation Module (AURM) - 996956

This licence is used when there are more users in the software than can be accommodated in the hardware Controllers (i.e. over 100,000). This licence will only operate if all of the Controllers connected to the Integriti software have already been upgraded to level 4. If this licence is deployed and a user presents their card to any reader in the system, but that user record cannot be found in the database of the local Controller, the Controller will interrogate the Integriti server to see if the user exists in the software database. If the user is valid in the software database, then access is granted immediately, and that user and their permissions are downloaded to that specific Controller overwriting the oldest user in that Controller. The hardware based Level 5 User Expansion Kit is capable of storing 1,000,000 users on ISC/IAC Controllers. See Page 23 for details (Part 996002L5)

XML API Integration

An XML licence is a mechanism which allows a third party software writer to create a software product which can access the database of the Integriti software directly. This is done through a controlled XML/REST portal in the Integriti software designed specifically for this purpose. XML (Extensible Markup Language) is an IT industry standard language/protocol for the transmission of data between software applications. XML licences can only be purchased after a Technology Partner Agreement has been executed by Inner Range and the potential developer. An application to become a Technology Partner with Inner Range can be made using the appropriate application form and requires a binding disclosure of the scope and purpose of the integration. Any XML interface licence issued can only be utilised for the purpose defined in the partner agreement.

XML Interface - READ - 996950 | XML Interface - WRITE - 996951 | XML Interface - CONTROL - 996952



INTEGRITI Professional - Enterprise Optional Features

THE SOFTWARE **INTEGRITI** Professional - Enterprise Optional Features

THE SOFTWARE **INTEGRITI** Express / Commissioning Software

Enterprise Optional Features

Inner Range Mobile Reader Application - 996907

The Inner Range Mobile Reader is an Android smartphone application that allows security personnel to view and verify cardholder details with a simple scan of a user's access card. Mobile Reader can be used for on-the-spot identity verification, suspension of access cards and as a "check-in" reader at emergency mustering assembly points.



User Identification & Location Check: On presentation of a valid card, Mobile Reader displays the user photo, user location, card status and additional user and card information. The information displayed can be configured from the Integriti server to include any user properties, card properties and custom fields such as Employee ID, Student ID, and Department.

Mobile Reader can be set to the specific location or area where the smartphone is located. When user information is displayed, the user's location will be displayed in red if it does not match the device location. This allows security personnel to identify users that may have entered areas without authorisation

- Suspending Cards: If a user doesn't match the cardholder photo, security personnel can immediately suspend the card from the Mobile Reader application. The suspended card will no longer provide access to any doors until reactivated from the Integriti server.
- Emergency Muster: In the event of an emergency, Mobile Reader can be used as a "check-in" reader at an emergency mustering assembly point. The operator can select a muster point location and areas that are being evacuated. Multiple smartphones running Mobile Reader can be used collaboratively during an emergency evacuation.

As users present their cards at the "check-in" reader, their location is updated to the muster point. In muster mode, the app displays the number of users still inside the evacuation areas, the number of users at the muster point and the total number of users at all muster points. Mobile Reader provides a scrollable list of all users still inside an area or building as well as their last known location. Additionally, an operator can search for users by name to quickly determine their last known location. Access to this critical information provides emergency services with accurate information for a focused and timely response.

User Verification Features

- Display user photo, user location, card status and additional user and card information
- Display user and card custom fields
- Verify user location against device location
- Suspend user access cards

Muster Features

- Functions as a "check-in" reader at emergency mustering assembly . points
- Supports multi-device coordinated mustering
- Selectable muster location
- Selectable evacuation areas and locations
- Dynamically displays the number of users still inside the evacuation areas, the number of users at the muster point and the total number of users at all muster points
- Scrollable list of users still inside the evacuation areas and their last known location
- User name search

Ordering Options

996907 Inner Range Mobile Reader Application (one required per smartphone



Finner range



- Supports username and password login or biometric fingerprint login
- Displayed user and card information is configurable from the Integriti server
- Areas and locations can be grouped into Location Lists for site-wide musterina

Requirements

- Integriti Professional V18.1 or newer
- Android V7.0 Nougat or newer
- Smartphone with NFC capabilities
- Supports Inner Range SIFER and HID MIFARE DESFire© EV1 & EV2 cards.*
- Inner Range Mobile Reader 996907 is licenced per mobile device connected to the Integriti server. Connected devices can be managed, activated or deactivated from the Integriti server.

**Requires SIFER Enrollment Station to identify card serial numbers of SIFER credentials.



Integriti Express Product Key - 996905

Integriti Express is a budget focused software solution for Small and Medium Business's (SMBs). Express is a great option for sites that do not need the advanced features of the Professional version. The following base level parameters are included with the Integriti Express Product Key:

- 1. Connection of one Client Workstation where the client workstation and server are the same machine
- 2. Connection of one Integriti Controller (ISC or IAC)
- 3. Support for up to 16 Doors

000

Some of the features included with Integriti Express:

User/Cardholder Management The incredibly flexible user permissions provide an easy-to-use, building block method of assigning access and security rights to cardholders. Cardholder profiles are easily created by assigning multiple permissions with simple "Allow" and "Deny" functions.
Basic Reporting Single-click reporting to review the areas cardholders have accessed, what areas cardholders have access to, search event and alarm history, programming history and much more. Easily export reports in a variety of common file formats.
System Designer and GateKeeper Applications System Designer is used for all aspects of system programming and configuration. GateKeeper is a dedicated application to simplify day to day monitoring and control of the Integriti system.
Operator Permissions Manage the operators that use Integriti software. Easily customise and define their access permissions levels with fine control.
Audit Trail The amazingly powerful forensic audit trail records every programming change made by all operators and provides the

ng change r ide by all opei ability to "roll-back" to any change in the past.

Express software provides one connection to an Integriti Controller supporting up to 16 doors and can be used only on a single computer workstation. Express offers all the essential functionality required to configure, administer and monitor a single Integriti system. Full operator permissions are provided for added security and Integriti Express can be upgraded to Professional if and when further expansion is required.

Commissioning Software

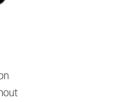
Integriti Commissioning Software (CS) is a software application designed to be used by installation technicians when they are installing and commissioning Integriti Controllers.

CS can be used to bench program Controllers prior to deployment and to train and familiarise technicians with general Integriti programming techniques.

The Integriti CS application is available as a yearly expiring licence to approved technicians only. This approval is usually granted after appropriate factory accreditation has been undertaken successfully and a level of competency with the Integriti platform has been certified by the Inner Range training department.











SkyTunnel is an industry-first cloud-based service that provides hassle-free connectivity of Integriti hardware, software and mobile apps.



Intuitive Design

The Integriti System Management Suite is a true cutting-edge solution. Integriti boasts a contemporary and intuitive design that is simple to use and easy to learn.



Upgrade to Integriti Professional - 996905UPG Express can be upgraded to Integriti Professional at any time.





Integriti Software Comparison

Features User Management, System Programming, System Status, Programming History (Audit Trail) Hassle Free IP Connection with SkyTunnel. a. Software Operator Permissions GateKeeper – A Dedicated Application for Daily End User Operations Support for Multiple Workstations / Clients. b.	Pro ✓	Express	CS
Hassle Free IP Connection with SkyTunnel. a. Software Operator Permissions GateKeeper – A Dedicated Application for Daily End User Operations		 ✓ 	√
Software Operator Permissions GateKeeper – A Dedicated Application for Daily End User Operations	 		•
GateKeeper – A Dedicated Application for Daily End User Operations		 Image: A set of the set of the	 ✓
	v	✓	×
Support for Multiple Workstations / Clients h	v	✓	×
Support for Multiple Workstations / Clients, <i>D</i> .	v	×	×
Web-based Client for Desktop or Mobile Devices (Responsive). b.	v	×	×
Support for Multiple Controllers. b.	v	×	×
Schematic Graphical Maps with Scalable Vector based graphics	v	×	×
Alarm Management	v	×	×
Smartphone-Server Interface. b.	 ✓ 	×	×
Advanced Reports. b.	 ✓ 	×	×
Communicator - Email, SMS & Pager. b.	 ✓ 	×	×
Photo ID Card Design. b.	✓	×	×
Jser Qualifications Manager. b.	✓	×	×
Advanced Alarm Management, Alarm Escalation, Response Plans & Operator Challenge. c.	 	×	×
SNMP & Health Monitor. b.	v	×	×
Active User Rotation Module (AURM). b.	v	×	×
Application Layer High Availability Solution. b.	v	×	×
nner Range Mobile Reader Application. b.	v	×	×
Guard Tour Manager. b.	V	×	×
Jpgradeable to Integriti Professional. b.		~	*
Integration Features	Pro	Express	CS
CCTV Integration. b.		*	*
CCTV Licence Plate Recognition Integration. b.	· ·	*	*
Biometric Reader Integration. b.	<u> </u>	*	*
ntercom Integration. b.	<i>v</i>	*	*
Dynamic User Import Module (DUIM). b.	<i>v</i>	*	*
Active Directory Integration (Users and Operators). b.	<i>v</i>	*	*
Event Review I/O Communications. b.	<i>v</i>	*	*
RightCrowd Enterprise Integration. b.	v	*	×
/isitor Management Integration. b.	 ✓ 	×	×
.ift Integration. b.	 ✓ 	*	×
KeyLocker Integration. b.	 ✓ 	*	*
/ingCard Integration. b.	 ✓ 	*	*
Salto XS4 Integration. b.	 ✓ 	×	*
Stanley Real-Time Location System (RTLS). b.	v	×	*
koTeK User Location System. b.	v	×	*
Villestone Access Control Manager (ACM). b.	v	×	×
KML Integration (Technology Partner Program). b.	v	×	*
Software Dimensions	Pro	Express	CS
Number of Controllers Supported. d.	1 ~ No Limit	1	No Limit
Number of Simultaneous Controller Connections. d.	No Limit	1	1
Number of Doors Supported	16 ~ No Limit	16	240
Controller Operating Level Expansions Supported	All	All	All e.
John John Jeren Lyansion's Supported	End Users	End Users	Installers Only

a. - SkyTunnel provides non-permanent connections between Integriti Controllers, Integriti software and the Integriti Mobile App.

b. - Optional expansion or feature purchased separately.

c. - Basic alert functionality is included as standard with the Professional version. However, advanced alert functions such as Response Plans, Alert Escalations, Alert Reporting and Operator Challenge requires the optional Advanced Alert feature - purchased separately.

d. - Depending on the size and activity level of the system multiple servers may be required to support extremely large numbers of Controllers.

e. - CS supports all levels if connected via USB or Level 0 only if connected remotely via PSTN or Ethernet. The "Allow CS Remote Connection" 12 month subscription licence removes this restriction and permits remote connections from CS software for any level smart card.

Hardware



Finner range



Integriti Hardware Highlights

Integriti Hardware Highlights

Three main hardware components make up an Integriti system:





3 - Local Expansion Devices (via UniBus)

Integriti Security Controller (ISC)

The Integriti Security Controller is a state-of-the-art IP-based integrated Security and Access controller with powerful embedded processors and extensive on-board memory. The ISC is equipped with 16 Zone Inputs, 2 Auxiliary Relay Outputs, Power Supply with Smart Fuses, Siren and Watchdog Outputs, Ethernet, USB and Modem ports. The ISC can be used both standalone or expanded further via its local UniBus and RS-485 Sub-LAN ports.

The flexible, modular design of the ISC allows a single standalone 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 240 Doors. User capacity of up to 100,000 users is available as a standard expansion option, and capacity for 1,000,000 users is also available with the User expansion kit. Part 996002L5 see page 23. Peer to Peer communications between ISC controllers is also supported.



Integriti Access Controller (IAC)

The Integriti Access Controller (IAC) is a state-of-the-art IP connected Intelligent Controller. Designed for Access Control applications, the IAC directly manages up to 8 doors locally or 240 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 result is a solution that is incredibly quick, robust and highly available.

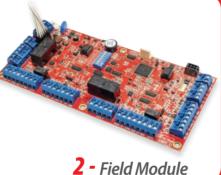
The flexible, modular design of the IAC allows a single standalone Controller to be expanded to form a network of IP or RS-485 expansion modules supporting up to 3,000 Zone Inputs, 3,000 Outputs, 250 Areas and over 1,000 Card Readers and 240 Doors. User capacity of up to 100,000 users is available as a standard expansion option, and capacity for 1,000,000 users is also available with the User expansion kit. Part 996002L5 see page 23. Peer to Peer communications between IAC controllers is also supported.

1 - Controller

Integriti Intelligent LAN Access Module (ILAM)

The ILAM can be used to control and monitor up to 8 Doors or Lift access readers on the Integriti RS-485 LAN, or via IP LAN if connected with CLOE modules (Part. 995093). The base module supports 2 Doors and 2 Wiegand Card Readers or 16 Inner Range SIFER Card Readers. The ILAM is expandable up to 8 Doors and 8 Wiegand Card Readers with the simple addition of UniBus 2 Door/2 Reader Expanders.

The ILAM offers a complete suite of programmable options to provide advanced high security access control, security area control and door alarm monitoring functions. Offline intelligence is also provided via the on-board database to provide access control functionality and event logging even if communications to the master Controller (ISC or IAC) are severed. Upon re-connection, all buffered events and any programming changes are automatically synchronised with the master Controller.

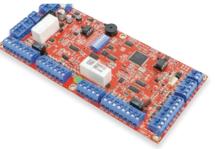


Integriti Standard LAN Access Module (SLAM)

The Integriti Standard LAN Access Module (SLAM) can be used to control and monitor up to 2 Doors on the Integriti RS-485 LAN, or via IP LAN if connected with CLOE modules (Part. 995093).

The module supports 2 doors and up to 4 Inner Range RS-485 SIFER readers to accommodate entry and exit readers on both doors. Alternatively, two Wiegand readers may be connected to allow control and monitoring of a single door with entry and exit readers, or two doors with a single reader each.

The SLAM offers cached functionality via its on-board database to provide offline access control operation for up to 2,000 user cards if communications to the master Controller (ISC or IAC) are lost. Cache expiry time for the module can be selected ranging from 1 hour to 4 months. In addition, each user has an option to be stored permanently within the modules cache, particularly useful for situations where certain staff may need to be guaranteed access at all times.



2 - Field Module

Integriti 8 Zone LAN I/O Expander (Expandable to 32 Inputs/Outputs)

The Integriti 8 Zone LAN Expander Module connects directly to the Integriti RS-485 LAN and provides an additional 8 Zone Inputs, 2 Auxiliary Outputs and 2 Siren drivers (Siren drivers fitted from PCB revision 'B'). Up to 99 Zone Expander Modules can be connected to the Integriti RS-485 LAN or via IP LAN if connected with CLOE modules (Part. 995093).

The 8 Zone LAN Expander Module also offers a UniBus in-cabinet expansion interface, allowing further expansion of Zone Inputs and Auxiliary Outputs using plug on UniBus expansion devices fitted within the same tamper-protected enclosure. Up to 32 Zone Inputs or 32 Auxiliary Outputs can be connected to the Module (32 Zones and 26 Auxiliaries or 24 Zones and 32 Auxiliaries simultaneously).

Integriti PrismaX Keypad

The Integriti PrismaX Keypad provides a stylish and simple keypad to control the Integriti system. End users can perform simple functions such as arming and disarming areas, locking or unlocking doors and reviewing event history via the full-colour graphic display. Installers also have the ability to program many of the major features of the Integriti system from the convenience of a PrismaX Keypad.

An optional SIFER reader add-on board can be fitted to the PrismaX keypad in order to support card access via the Keypad or high-security environments which require dual credential "card+PIN" access.

UniBus Expansion

UniBus is an innovative in-cabinet bus which allows the connection of Expansion devices, Communications devices and Door & Reader devices on a common Plug & Play bus. UniBus replaces the need for ribbon cables and specialised connectors.

Inner Range SIFER Smart Card Readers & Keypads The SIFER Smart Card Reader is a multi-drop RS-485 reader for use with MIFARE® based cards, including the high-security Inner Range MIFARE® DESFire©® EV1/EV2 cards. SIFER readers and cards deliver AES encryption right through to the Access Module, offering far superior security than traditional Wiegand based readers. As SIFER readers utilise a superset of the OSDP protocol, the readers may also be deployed on any system capable of using OSDP. Up to 16 SIFER readers may be connected to the dedicated RS-485 reader port on the Integriti Intelligent LAN Access Module (ILAM) or the Integriti Access Controller (IAC) for full Reader-In and Reader-Out operation. Up to 4 SIFER readers may be connected to the Integriti Standard LAN Access Module (SLAM). SIFER readers and Keypads are IP67 rated and available with site-specific encryption keys.

SkyTunnel

SkyTunnel is an industry-first cloud-based service that provides hassle-free connection of Integriti hardware, software and Integriti Mobile Apps over the Internet. No more wasted hours configuring routers and ports. The SkyTunnel service also allows Integriti Controllers to report alarms via IP directly to Multipath-IP or Patriot equipped monitoring centres without any additional STU hardware or PSTN connections









3 - Local Expansion

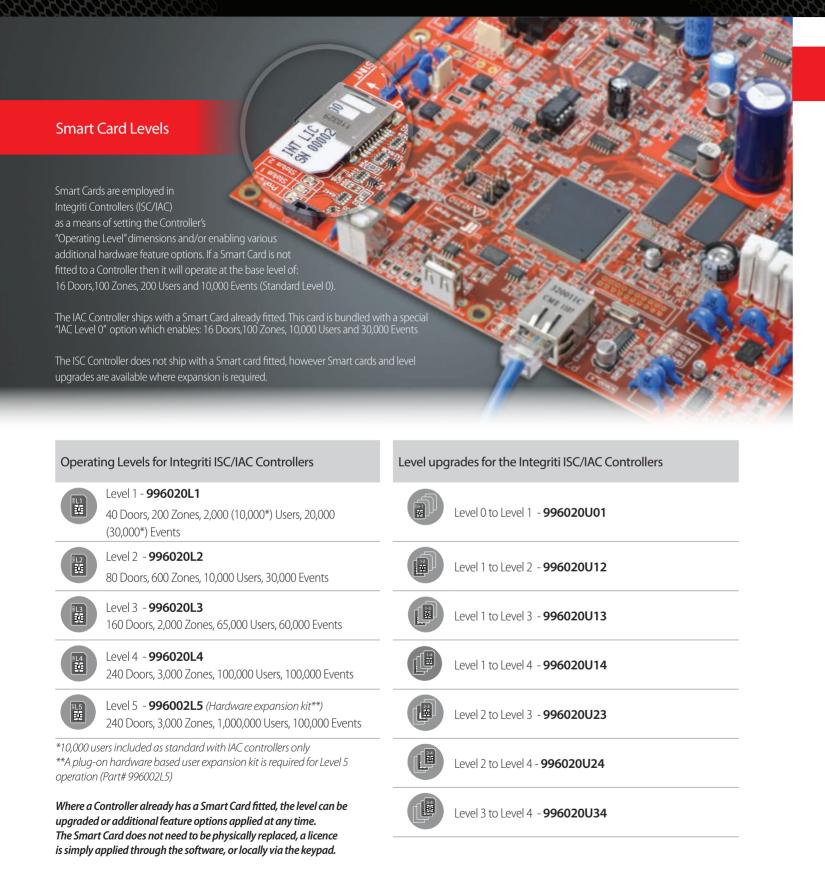
3 - Local Expansion





Integriti Hardware Smart Card

INTEGRITI Hardware Smart Card



Integriti users are global entities, and every user in an Integriti system is synchronised to all enrolled controllers. Therefore, it is essential that all Integriti controllers in a multi-controller site have the same Smart Card level to accommodate the entire user database. The Level 5 996002L5 hardware expansion requires that all controllers be fitted with a Level 4 Smart Card.



Level 0 Smart Card (Blank Card) - 996020

The level 0 Smart Card can store any of the optional feature licences listed below. The level 0 Smart Card should be used where it is not necessary to use a level 1 or greater Smart Card. A level 0 Smart Card can be upgraded to any higher level option at a future time. (996020 is not required for IAC Controllers)



Allow CS Remote Connection (Subscription) - 996029

The Allow CS Remote Connection licence allows an Integriti Controller (ISC/IAC) fitted with a level 1 or higher Smart Card, to be remotely managed by a security installer using the Integriti Commissioning Software (CS). Remote connections include TCP/IP, SkyTunnel and PSTN. Direct USB connection is not considered a remote connection. The Allow CS Remote Connection licence is an annual subscription.



Smartphone-Controller Interface - 996021

This licence allows Apple or Android devices using the Integriti Mobile App to connect to an Integriti Controller (ISC/IAC).

Each Smartphone-Controller interface licence allows up to 5 simultaneous user connections with each user being allocated a connection slot for a fixed 7 day period which starts from their last successful login. If a user has not logged in within a 7 day period their slot may be used by another user.

The hardware based Smartphone-Controller and software based Smartphone-Server interfaces work independently of each other and are licenced separately. Please see page 11 of the Product Catalogue for Smartphone-Server Interface.

C-Bus Lighting High-Level Interface - 996027

This licence will allow integration of a Clipsal C-Bus lighting control system to an Integriti Controller (ISC/IAC). Integration to C-Bus allows fully automated control of lighting systems for energy management and security purposes. The connection uses TCP/IP or RS232 serial between the Integriti Controller and the Clipsal Network Interface (CNI).



Automation (BMS) High-Level Interface - 996022

The Automation high-level Interface allows an Integriti Controller (ISC/IAC) to connect to a 3rd party Home or Building Management System via a TCP/IP or RS232 serial connection. The interface uses a full-duplex ASCII based protocol delivering a flexible and easy to integrate solution. Integriti's Standard and Advanced level automation interface features are included with this option.

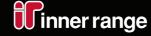


BACnet/IP & Modbus Integration - 996228B BACnet/IP | 996228M Modbus

For BACnet/IP this licence allows an Integriti Controller (ISC/IAC) to integrate with an Inner Range factory supplied Building Management System (BMS) gateway device. This licence can only be issued in consultation with the Inner Range pre-sales design team and their professional services will be required to program the interface. For Modbus this licence allows Integriti's built-in Modbus communications interface to be activated and configured by the system integrator without the need for consultation with the Inner Range pre-sales design team.

Elevator Management System High-Level Interface - 996023

This licence allows an Integriti Controller (ISC/IAC) to integrate with a variety of lift manufacturers. This licence can only be issued in consultation with and through the Inner Range pre-sales design team and their professional services will be required to program the interface. Interface protocols available at the time of writing are KONE, OTIS and ThyssenKrupp, although not all models of each manufacturer are supported. Check with the Inner Range pre-sales design team before committing to any particular interface. (High-Level Schindler Lift Integration is achieved using a licence in the Integriti Software - see page 15 of the Product Catalogue)







ge.com/pd/Integriti-System/Mobile-Applications/Integriti-Mobile



DATA SHEET Integriti Hardware Smart Card

Integriti Controller Comparison Table

Optional Features

Honeywell Fire Panel Integration - 996239

There are two methods for integration with Honeywell fire systems: standard and advanced. The standard option (996239) is a simplistic "receiver" method which allows an Integriti Controller (ISC/IAC) to receive alarm events directly from the Honeywell fire panel's serial printer interface when they occur. This option is suitable to trigger alerts and actions within the Integriti system as they are received, however monitoring the real-time status of alarm points is not supported. Advanced integration makes use of the Inner Range Modbus 996228M & Virtual Expander Module(s) Part 996026 (requires the fire alarm panel to be fitted with a Honeywell Notifier Modbus gateway card). Integration via Modbus makes it possible to display the real-time status (i.e. Alarm, Tamper, Enabled, Disabled, Offline, Online) of the fire panel points within Integriti schematic maps and process and send fire alarms & alerts via the Integriti system. For detailed technical information please refer to the Honeywell fire system integration guide.

High Security Fence IP High-Level Interface - 996025

This licence will allow integration between an Integriti Controller (ISC/IAC) and a high security fence system. The integration allows the fence system to be monitored and controlled directly from the Integriti software. Dynamic fence icons may be used to graphically represent fence zones and other fence objects within Integriti's software schematics. To date, the following high security fence systems have been integrated:

Druid (by Nemtek)
 Intrepid (by Southwest Microwave)
 Forcefield / Sabra Fence (by ASF)

Advanced Peer-to-Peer Functionality - 996030

Peer-to-Peer describes the communication functionality that exists directly between Controllers without any dependency upon the Integriti server. This provides superior levels of continued operation in the event that the Integriti server is offline. Peer-to-Peer functionality is used to deliver the following features

1. Controller to Controller alarm reporting. Alarms may be routed from multiple Controllers to a single Controller that can report the alarms to a monitoring station.

2. Global anti-passback. Allows door anti-passback logic to span doors that are connected to two or more separate Controllers.

3. Cross-Controller logic mapping. Allows conditional logic to operate across inputs, outputs and system objects resident on two or more separate Controllers. Option 1 is included as standard in all Integriti ISC/IAC Controller. Options 2 & 3 are enabled with the 996030 Advanced Peer-to-Peer licence in each Controller.

Virtual Expander Modules (Per Module) - 996026

The Virtual Expander licence enables virtual expander modules to be added to Integriti Controllers (ISC/IAC) and is licenced on a per module basis. Each virtual expander module provides an additional 32 zone inputs and 32 auxiliary outputs to be used for logic/automation control. This negates the need to install physical expander modules where inputs and outputs are only used for logic control purposes.

Locker Bank Control - 996235

Locker Bank Control allows an Integriti Controller (ISC/IAC) to control electronic locks in a logical fashion for various locker scenarios. The quantity of lockers per bank can be customised to suit the customer's requirements using one of three supported modes: 1 - Predefined Access Mode, 2 - Dynamic "One Per User" Mode. 3 - Dynamic "Unlimited" Mode, Locker bank functionality is used in conjunction with Integriti access control modules and card readers.

Aperio Door Integration (Per Door) - 996032 SimonsVoss Door Integration (Per Door) - 996033 Salto Sallis Door Integration (Per Door) - 996024

This licence will allow Assa Abloy Aperio, SimonsVoss or Salto Sallis wireless doors to be integrated with the Integriti system hardware and is licenced on a per door basis. Up to 8 doors can be integrated per Integriti Access Controller (IAC) or Intelligent LAN Access Module (ILAM), or 2 doors with the Standard LAN Access Module (SLAM)

Main Controller Features

Power Supply On-Board (Powered with 16VAC) Connector for External SMART PSU (13.75VDC PSU) Connection for Battery Detector Power Connections PSTN Dialler On-Board Ethernet IP Reporting on Multipath-IP Network General Purpose Zone Inputs General Purpose Relay Outputs Siren Driver Outputs (Speaker) Door Lock Relay Outputs DOTL Relay Outputs Wiegand Reader Connection Ports Valid Read Outputs Invalid Read Outputs Arm Input Request Exit Input Request Entry Input Door Reed Input Door Tongue Sense Input Cabinet Tamper Input Watchdog Output UniBus Host USB Ports Ethernet Port Serial Port (Port Zero) RS-485 Module LAN Port RS-485 Reader LAN Port

Smart Card Levels & Licences Supported

IAC Level 0 Smart Card Fitted Smart Card Fitted as Standard Support for Levels 1, 2, 3 & 4 Support for Level 5 User Expansion Kit (Allows 1,000,000 Users on-board) Smart Card Additional Licences (All Types)

RS-485 Module LAN Expansion

Maximum Module Count on LAN Maximum Modules of Any One Type ntegriti & Concept RS-485 Module Types Supported

Controller - UniBus Device Support	Security Controller	Access Controller
UniBus 8 Input Expander	Y - up to 2	-
UniBus 8 Relay Expander	Y - up to 4	Y - up to 4 ⁽⁴⁾
UniBus 2 Door Expander	-	Y - up to 3
UniBus RS-232 / RS-485 UART	Y - up to 4	Y - up to 4
UniBus 16 Floor Lift Interface	Y - up to 6	Y - up to 6
UniBus 4 Analogue		

⁽¹⁾ Use Integriti 3Amp or 8Amp SMART Power Supplies with IAC

⁽²⁾ Use Peer-to-Peer to forward alarms to a dialler on an ISC. Alternately use a T4000 3G Communicator

⁽³⁾ Older Concept modules may not be supported or original functions may differ. Concept Touchscreen not supported



Security Controller	Access Controller
Y	N ⁽¹⁾
N	Υ
Y	Ν
Y	Ν
Y	N ⁽²⁾
Y	Υ
16	-
2	-
2	-
-	2
-	2
-	4
-	4
-	4
-	4
-	2
-	2
-	2
-	2
1	1
1	1
Y	Y
Y	Y
Y	Y
Y	Y
Y	Y
-	Y



Security Controller	Access Controller
Ν	Y - Includes 10,000 Users
Ν	Υ
Y	Y
Y	Y
Y	Y

Security Controller	Access Controller
250	250
99	99
All ⁽³⁾	All ⁽³⁾

(4) UniBus relays can be used for general purpose outputs when addressed to Aux 1~16 on IAC, and will mimic the Lock & DOTL outputs on doors 1-8 when mapped to Aux 17~32



DATA SHEET **Integriti** Security Controller (ISC)

DATA SHEET **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 240 Doors. User capacity of up to 100,000 users is available as a standard expansion option, and capacity for 1,000,000 users is also available with the Level 5 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 using LAN over Ethernet modules. (Part. 995093 see page 69 of Product Catalogue).

Ethernet Connected Services

· SkyTunnel[®] Cloud Services & Smart Phone

· Connectivity to Integriti Soft

· Peer to Peer communications

· Automation Interface

· BMS / HVAC Integration

connectivity

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) · EMS / Lift Access Control Integration 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 MB RAM / 4 GB Micro SD Memory
- Smart Card Slot (Smart cards are used for setting system dimensions)
- Firmware Upgrade via USB, LAN or Software

Hardware Expansion Capabilities

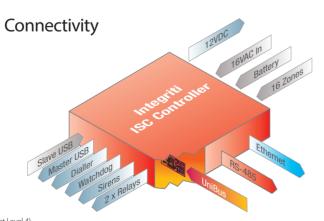
- Zone Inputs Expandable to 32 via UniBus 3,000 via RS-485 Sub-LAN
- Auxiliary Outputs Expandable to 32 via UniBus 3,232 via RS-485 Sub-LAN
- Doors Expandable to 240 via RS-485 Sub-LAN
- Readers Expandable to 1,584 via RS-485 Sub-LAN
- On-board User capacity -100,000 at Level 4, 1,000,000 with Level 5 User expansion kit fitted
- On-board Review Events Expandable to 100.000

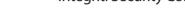
• Ports - RS-232 / RS-485 Serial Ports - Expandable to 8 with UniBus UART

- Integriti ISC Standard Operating Level
- 16 Doors, 100 Zones, 200 Users, 10,000 Events (Level Zero/no SMART card fitted)
- ISC Operating Level Expansion Options
- 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 996002L5 - Level 5 User expansion kit: 240 Doors, 3,000 Zones, 1,000,000 Users, 100,000 Events*
- See page 23-25 for full details on SMART card options
- * Level 5 is a physical expansion kit which is attached to the ISC Controller. (The ISC must first be operating at Level 4)

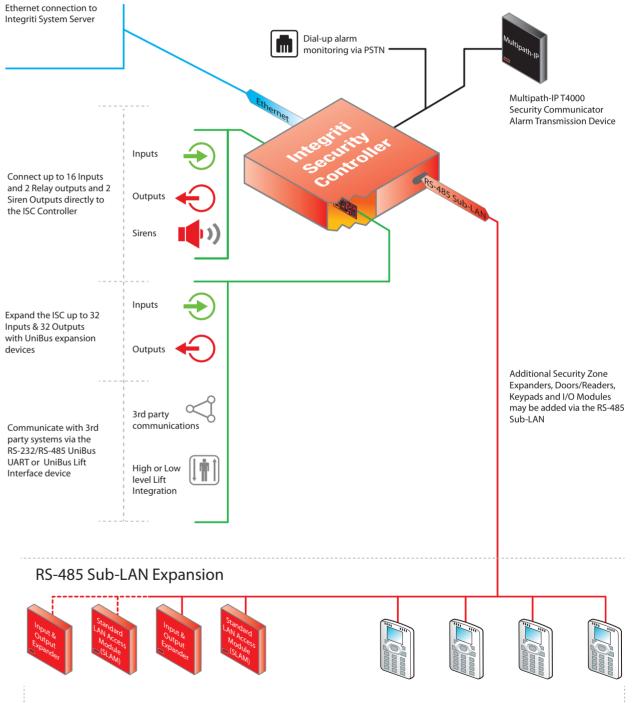
	UniBus Device		UniBus Host Module				
	Compatibility Guide	ISC	IAC	8 Zone Expander	ILAM		
	8 Zone Expander	2	0	3	0		
	8 Relay Expander	4	4	4	2		
UniBus Device	2 Door / 2 Reader Expander	0	3	0	3		
us D	16 Floor Lift Interface		6	6	6		
UniB	RS-232/RS-485 UART	4	4	0	0		
	Analogue Expander	4	0	6	0		
	2 nd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

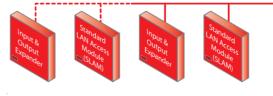
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The ISC directly supports up to 32 Inputs and 32 Outputs with further I/O expansion and access control via the RS-485 Sub-LAN









Integriti Security Controller Architecture

Connect Up to 250 RS-485 Sub-LAN Modules (maximum of 99 of any one type)

DATA SHEET Security Controller (ISC)



.. .. ~

Specifications							
Physical							
Enclosure Dimensions:	Medium size enc	Medium size enclosure 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, 7A	H battery and cover)				
Installation Environment:	0°C - 50°C @15%	- 90% Relative humic	dity (non-condensing)				
Cabinet Battery Bracket:	To suit 12V 7AH s	ealed lead acid batter	У				
Electrical							
Power Supply Type:	Type A (EN50131	-1)					
Transformer Input Voltage:	240V AC -10% / -	+10%. 50Hertz					
Transformer Output:	16.5V AC. 50 Her	tz					
Current Consumption:	Maximum 500 m	A from 240V AC Sour	ce				
Fuse Protection:	Separate AC mai	ns input fuse. 1.0 AMP	Slow Blow M205 (20mr	n)			
PCB AC Input Voltage:	16 to 18V AC. 50/	/60 Hertz					
Battery Charger Output:	13.75VDC -0.15/-	+.05 V (AC power requ	uired)				
12V, Sealed Battery Capacity:	Use 7.2AH or 18A	AH Lead Acid Type: Ma	ix 18AH				
Battery Input Fuse:	5 Amperes						
Low Battery Alarm:	< 11V DC +/- 10	DmV					
Deep Discharge Protection:	Activates at 10.4	V +/-100mV. Restores	at 12.4V +/- 100mV				
LAN "POS" & DET+:	Output Voltage: 1	13.75V DC -0.15/+.05	V (When AC power Prese	ent)			
LAN "POS" & DET+ Smartfuse trip current:	2 Amperes						
Maximum Ripple:	At maximum and	cillary load current: < 2	200mV P-P / 75mV RMS				
Low DC Voltage Alarm:	< 11V DC +/- 10	OmV					
Siren Drivers:	Each capable of o	driving a 4 Ohm speal	er (or 2 x 8 Ohm in paral	llel)			
RS-485 & UniBus Parameters							
UniBus In-Cabinet Expansion:	Up to 6 UniBus devices						
RS-485 Sub-LAN:	Up to 250 RS-485	5 Sub-LAN Modules (r	naximum of 99 of any or	ne type)			
Current Consumption							
AC Source	JP5	Total Current	Static Controller	Battery	Max Ancillary		
	Setting	Limit	Current	Capacity	Current		
1.5A Plug Pack:	Not shorted	1.3 AMP	275mA	7 AH	700mA		
Transformer:	Shorted	2.2 AMP	275mA	7 AH	1.2A		

Compliance \bigotimes Electrical X RoHS Environmental

275mA

18 AH

480mA

2.2 AMP

Shorted

Ordering Options





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

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





996515PCB&K

patch cable)

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

Integriti UniBus 8 Relay Auxiliary Expander



Spare UniBus patch cables 996791SS - UniBus Patch Cable 150mm 9967915 - UniBus Patch Cable 220mm 996791L - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XL - UniBus Patch Cable 675mm



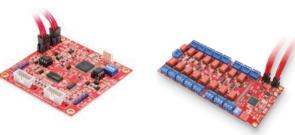
Transformer:





Integriti 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 996002L5 - Level 5 User Expansion Kit (Requires Level 4)

Ordering Options - UniBus Devices for ISC



996520PCB&K

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

996540PCB&K Integriti UniBus 16 Floor Lift Interface device PCB & Accessories (Includes 270mm UniBus patch cable)



DATA SHEET **Integriti** Access Controller (IAC)

DATA SHEET **Integriti** Access Controller (IAC)

The Integriti Access Controller (IAC) is a state-of-the-art IP connected intelligent Controller designed for Access Control applications. The IAC can directly manage up to 8 doors locally or up to 240 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 result is a solution that is incredibly quick, robust and highly intelligent. 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. 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. 996535PCB&K), this allows for flexible configurations of 2, 4, 6 or 8 doors, and up to 10 Wiegand readers. The RS-485 Reader port accommodates up to 16 Inner Range SIFER or compatible third party OSDP multi-drop readers, providing 'in & out' directional access control for each door. The IAC can also be used for integration of wireless door locking systems from Assa Abloy Aperio, SimonsVoss or Salto Sallis. Please see our website for Wireless Locking system Integration Guides for more details.

Larger systems 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 3,000 Zone Inputs, 3,000 Outputs, 250 Areas and over 1,000 Card Readers and 240 Doors. User capacity of up to 100,000 users is available as a standard expansion option, and capacity for 1,000,000 users is also available with the Level 5 User expansion kit. (Part. 996002L5)

Main Controller Features

- 2 Door Interfaces (Lock Relays) expandable to 8 via UniBus
- Reader Port Encrypted RS-485, Up to 16 SIEER Readers
- Reader Port RS-485/OSDP, Up to 16 compatible OSDP Readers
- Wiegand Reader ports 4, expandable to 10 via UniBus Aperio, SimonsVoss, Salto Sallis integration - up to 8 Doors via RS-485 Reader port
- 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)
- Advanced Peer-to-Peer Mode
- 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
- Firmware Upgrade via USB or Software
- Choice of 3Amp or 8Amp Power Supply and enclosure options
- Built-in module locater buzze

Integriti IAC Standard Operating Level

16 Doors, 100 Zones, 10,000 Users, 30,000 Events (IAC Level 0 standard option)**

IAC Operating Level Expansion Options

- 996020L1 Level 1 SMART Card: 40 Doors, 200 Zones, 2,000 (10,000*) Users, 20,000 (30,000*) 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
- 996002L5 Level 5 User expansion kit: 240 Doors, 3.000 Zones, 1.000.000 Users, 100.000 Events***
- See page 23-25 for full details on SMART card options

*The quantity show in brackets is only applicable to IAC Controllers as the "IAC Level 0" factory option has been bundled with the Controller as standard. **Where the Smart Card is removed or replaced with a standard Level 0 Smart Card the IAC will revert to 16 Doors, 100 Zones, 200 Users, 10,000 Events *** Level 5 is a physical expansion kit which is attached to the IAC Controller. (The IAC must first be operating at Level 4)

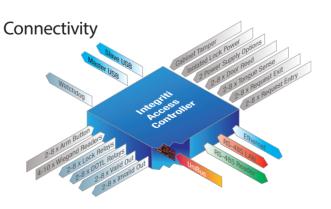


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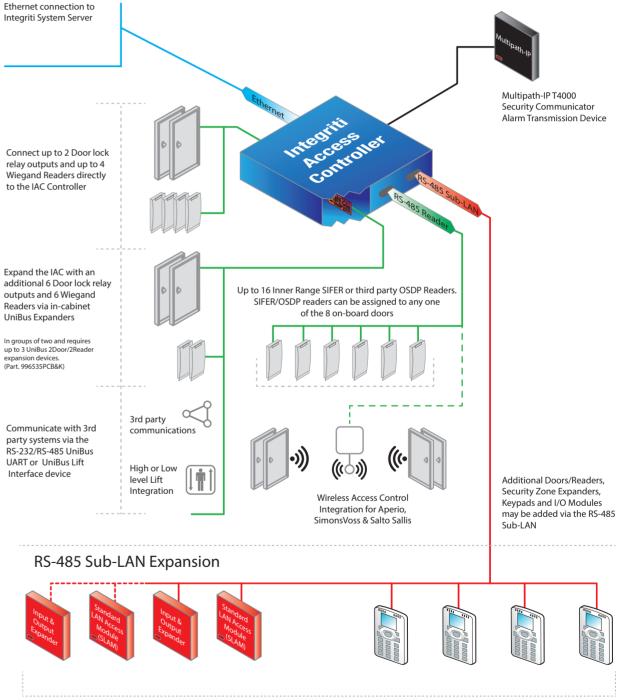
IAC shown in 8 Door / 10 Reader configuration. (IAC with UniBus 2 Door / 2 Reader expansion devices connected). Housed in the WideBody enclosure with hinge plate, 8Amp PSU, Fire Door override relay card and 2x 17Ah batteries

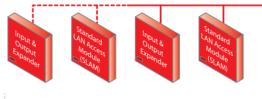
	UniBus Device	UniBus Host Module					
Compatibility Guide		ISC	IAC	8 Zone Expander	ILAM		
	8 Zone Expander	2		3	0		
	8 Relay Expander*	4	4	4	2		
JniBus Device	2 Door / 2 Reader Expander	0	3	0	3		
us De	16 Floor Lift Interface	6	6	6	6		
UniB	RS-232/RS-485 UART	4	4	0	0		
_	Analogue Expander	4	0	6	0		
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

*Relays can be used for general purpose outputs when mapped to Aux 1~16 on IAC, and will mimic the Lock & DOTL outputs on doors 1-8 when manned to Aux 17~32









Connect Up to 250 RS-485 Sub-LAN Modules (maximum of 99 of any one type)



Integriti Access Controller Architecture

with up to 16 SIFER or OSDP Readers for both in and out access control on all doors

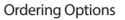
DATA SHEET **Integriti** Access Controller (IAC)



Specifications

Physical	
Enclosure Dimensions:	Medium - 460(L) x 358(W) x 85(D) (mm): Part# 995201PE3 or 995201PE8 - houses 1 x 996035+ 1 x 996535*
	XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE3 or 995203PE8 - houses 1 x 996035 + up to 3 x 996535*
	WideBody - 580(L) x 510(W) x 95(D) (mm): Part# 995204PE3 or 995204PE8 - houses 1 x 996035 + up to 3 x 996535*
	Rack Mount - 2RU 680(L) x 420(W) x 85(D) (mm): Part# 995220PE3 or 995220PE8 - houses 1 x 996035 + up to 2 x 996535*
PCB Size Code:	Integriti "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 - 70°C @15% - 90% Relative humidity (non-condensing)
Electrical (For PCB Only)	
Power Supply Input:	11V to 14VDC (from external Integriti 3Amp or 8Amp SMART PSU)
Current Consumption:	150mA standby, 220mA with on-board lock relays on, add 15mA for each active DOTL relay
NOTE: Current consumption does not UniBus connections	t 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
Reader Head Supply O/P:	5V/13.8V DC, 300mA maximum per reader, 1 Amp 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 datasheets 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	
	10/100 Feb
Ethernet: USB Host:	10/100 Ethernet Port
	USB type "A" connection
USB Slave: Port Zero:	USB type "B" connection
Smart Card Slot:	5 Pin header for PC or Multipath-IP STU connection For use with Smart Card (System Options Card)
Lock 1 & 2:	Includes Lock+, Lock-, NO/COM/NC
Door 1 & 2:	Includes Lock+, Lock-, NO/CONVINC Includes Reed, 2 x 0v, Tongue, REN, REX, DOTL contacts
Wiegand Reader Ports x 4:	Includes Need, 2 x 00, Norgue, NEA, DOTE CONTROLS
Lock Power Input:	Includes valid, invalid, vy, Reader F, DT, DO, And Includes valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, invalid, vy, Reader F, DT, DO, And Includes Valid, vy, Reader F, DT, DT, And Valid, vy, Reader F, DT, DT, NT, NT, NT, NT, NT, NT, NT, NT, NT, N
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)
RS-485 Reader:	1 Includes LAN+, LAN-, A, B, Auto addressing for SIFER Readers
External Power:	10way header block for connection to Integriti power supplies
	Coring (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
winpituite	
Electrical	
	RoHS
Environmental	

* Additional external power may be required for 3Amp models.







Integriti IAC Controllers 996035PCB&K Integriti IAC Controller PCB

UniBus Door Expander 996535PCB&K Integriti UniBus 2 Door Expander PCB & Accessories (Includes 270mm UniBus patch cable)





Enclosures to Suit IAC

Medium - 995201PE8 with 8Amp SMART PSU Houses 1 x 996035PCB&K & 1 x 996535PCB&K Medium - 995201PE3 with 3Amp SMART PSU Houses 1 x 996035PCB&K & 1 x 996535PCB&K* Medium – 9952011 empty enclosure only

XLarge - 995203PE8 with 8Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K XLarge - 995203PE3 with 3Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K* XLarge - 995203 empty enclosure only









IAC Controller shown in 8 Door configuration.

Housed in a WideBody Enclosure with 8Amp SMART Power Supply & 3 x UniBus Door Expanders. (IK-996035WB8PS Kit)

Hardware

The optional Fire door emergency release relay card is also shown. (Part 995916)

The IAC Controller is available from Inner Range distributors in kit form (These are kitted by the distributor)

IK-996035M2PS Integriti IAC 2 Door Kit Medium Enclosure with 3Amp SMART PSU IK-996035WB4PS Integriti IAC 4 Door Kit WideBody Enclosure with 8Amp SMART PSU IK-996035WB6PS Integriti IAC 6 Door Kit WideBody Enclosure with 8Amp SMART PSU IK-996035WB8PS Integriti IAC 8 Door Kit WideBody Enclosure with 8Amp SMART PSU



995204PE8



WideBody - 995204PE8 with 8Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K WideBody - 995204PE3 with 3Amp SMART PSU Houses 1 x 996035PCB&K & up to 3 x 996535PCB&K*

WideBody - 995204 empty enclosure only WideBody - 999027 hinged expansion plate kit to suit 995204

Rack Mount - 995220PE8 2RU drawer with 8Amp SMART PSU Houses 1 x 996035PCB&K & up to 2 x 996535PCB&K Rack Mount - 995220PE3 2RU drawer with 3Amp SMART PSU Houses 1 x 996035PCB&K & up to 2 x 996535PCB&K* Rack Mount - 995220 empty enclosure only * Additional external power may be required for enclosures with 3Amp PSU

996092 8Amp 13.75VDC SMART Power Supply Module, PSU only 996091PCB&K 3Amp 13.75VDC SMART Power Supply PCB & accessories

DATA SHEET Intelligent LAN Access Module (ILAM)

DATA SHEET **INTEGRITI** Intelligent LAN Access Module (ILAM)

The Integriti Intelligent LAN Access Module (ILAM) can be used to control and monitor up to 8 Doors or Lift cars on the Integriti RS-485 LAN, (or via IP using LAN over Ethernet modules - Part. 995093 see page 69 of Product Catalogue).

The base module supports 2 doors/2 readers and is expandable up to 8 doors/8 readers with the simple addition of 2 Door expander boards via the UniBus in-cabinet expansion interface.

The Integriti Intelligent LAN Access Module offers a complete suite of programmable options to provide advanced high-security access control, security area control and door alarm monitoring functions. Offline intelligence is also provided via the on-board database to provide access control functionality and event logging even if communications to the master controller are severed. Upon re-connection, all buffered events and any programming changes are automatically synchronised with the master Controller (ISC/IAC).

The ILAM is also used for integration of wireless door locking systems from Assa Abloy Aperio, SimonsVoss or Salto Sallis. Please see our website for Wireless Locking system Integration Guides for more details.

The power supply requirement is 11 to 14VDC and a range of Integriti plug on external 2Amp, 3Amp or 8Amp Switch Mode power supplies are available. The SMART 3Amp & 8Amp models are fully monitored via the Intelligent LAN Access Module.

Integriti Intelligent LAN Access Module with UniBus In-Cabinet Expansion

- Up to 8 Doors
- Up to 8 Wiegand readers or 16 SIFER RS-485 Readers
- Up to 8 Lift cars
- Features
- RS-485 LAN connectivity
- RS-485 Reader connectivity (up to 16 SIFER or third party OSDP Readers)
- Reader options to control Doors Lifts Areas and User Logon
- Supports Wiegand card readers up to 88bits
- Reader outputs with individual self-resetting overcurrent protection
- UniBus in-cabinet expansion interface
- Dedicated lock power input
- External Integriti power supply connection
- Full monitoring of external Integriti power supply Heavy duty lock relays
- Reader Valid & Invalid outputs
- Door reed & tongue sense inputs per door • Door request to enter & exit inputs per door
- DOTL relay outputs per door
- · Dedicated cabinet tamper input
- Small PCB size 200 x 95mm
- Over-The-Wire firmware upgradable
- Built-in module locater buzzer

Doors, Expansion & Integration Options

- Expandable to 8 Doors (2 Doors on-board)
- Expandable to 8 Wiegand Readers (2 Readers on-board)
- Five enclosure sizes allow 2, 4, 6 or 8 Door/Reader configurations
- Three plug on external power supply options (2A, SMART 3A or SMART 8A Switch Mode)
- Aperio, SimonsVoss, Salto Sallis integration up to 8 Doors via RS-485 Reader port
- Lift button I/O interfacing via optional UniBus Lift interface card (Up to 96 Floors)
- Expandable to 16 Inner Range SIFER or third party OSDP RS-485 readers via the dedicated RS-485 reader port

Offline Intelligence

- Offline intelligence provided for all Wiegand readers and standard lock outputs
- Offline Access Control database for 100,000 users
- Offline time periods
- Offline event database of 100,000 events

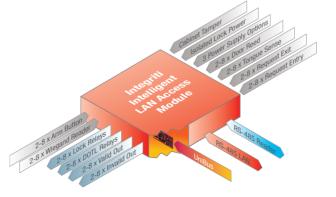
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10015		

ABOVE

II AM shown in 4 Door / 4 Reader configuration (II AM with UniBus 2 Door / 2 Reader expansion device connected) Housed in the Medium size 995201PE3 enclosure with 3Amp SMART Power Supply.

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

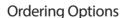
Connectivity



Specifications

Physical

Physical		
Enclosure Options:	Small - 252(L) x 358(W) x 85(D) (mm): Part# 995200PE2 o	
	Medium - 460(L) x 358(W) x 85(D) (mm): Part# 995201PE	
	XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE2,	
	WideBody - 580(L) x 510(W) x 95(D) (mm): Part# 995204F	
	Rack Mount - 2RU 680(L) x 420(W) x 85(D) (mm): Part# 99	
PCB Size Code:	Integriti "B" size	
PCB Dimensions:	200(L) x 94(W) x 45(D) (mm)	
Weight:	8.2 k.g. (Based on medium enclosure, mains transformer,	
Installation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensi	
Electrical (For PCB Only)		
Power Supply Input:	11V to 14VDC	
Current Consumption:	110mA standby. 175mA with lock relays on	
NOTE: Current consumption does not inc	lude the current required by readers or other external devices such as locks,	
Over Current Protection:	Reader +V connections. Protected with self-resetting PTC	
Carda et Datin an		
Contact Ratings	5 A = 201/D.C	
Lock Relays:	5 Amps @ 30VDC	
DOTL Relays:	1 Amp @ 30VDC (Door Open Too Long output)	
Connections		
Lock 1 & 2:	Includes Lock+, Lock-, NO/COM/NC	
Door 1 & 2:	Includes Reed, 2 x 0v, Tongue, REN, REX, DOTL contacts	
Wiegand Reader 1 & 2:	Includes Valid, Invalid, OV, Reader+, D1, D0, ARM	
Lock Power:	Includes Lock+, Lock- connections from external PSU	
Cabinet Tamper:	2 pin connection for cabinet tamper switch	
UniBus Port:	1 x UniBus Host expansion port	
RS-485 LAN:	1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP	
RS-485 Reader:	1, Supports up to 16 Inner Range SIFER or compatible OS	
External Power Supply Monit	Oring (Compatible with IR SMART PSU Devices)	
AC Fail:	External PS AC Fail	
Low Battery:	External PS Low Battery	
I AN Fuse:	External PS LAN Fuse	
Detector Fuse:	External PS Detector Fuse	
Low Volts:	External PS Low Volts	
PSU Fail:	External PS Fail	
Compliance		
Compliance	^	
	Δ (Ε	
Electrical		
	RoHS	
Environmental	конз 🔏	
	/ \	



Intelligent LAN Access Module PCB & Kit

Intelligent LAN Access Module PCB & Kit

with 2 Doors & 2 Readers on-board

996018PCB&K

Reader Options





Inner Range SIFER Smart Card Reader 994720 RS-485 multi-drop 128 bit AES encrypted DESFire© EV1/EV2 reader. 994720MF SIFER Smart Card Reader - As above + Multi-Format enabled to read the Card Serial Number of 3rd party cards 994725 SIFER Keypad/Reader 994725MF

SIFER Keypad/Reader Multi-Format enabled

UniBus 2 Door / 2 Reader Expansion Board

996535PCB&K UniBus 2 Door / 2 Reader expansion-board PCB & Kit



or 995200PE3 - houses 1 x 996018*
E2, 995201PE3 or 995201PE8 - houses 1 x 996018 + up to 2 x 996535*
, 995203PE3 or 995203PE8 - houses 1 x 996018 + up to 3 x 996535*
PE3 or 995204PE8 - houses 1 x 996018 + up to 3 x 996535*
95220PE2, 995220PE3 or 995220PE8 - houses 1 x 996018 + up to 3 x 996535*
7AH battery and cover)
ing)
buzzers, lamps or any device attached to the DOTL, Valid, Invalid, RS-485 Reader and UniBus connection:
Ĵ's

switches)

SDP readers, or 1 Salto Sallis, Aperio or SimonsVoss wireless access control hub)

Enclosure Options



95200PE3

Enclosures Small

995200PE2/995200PEEU2 - 2Amp PSU* 995200PE3/995200PEEU3 - 3Amp SMART PSU* Medium

995201PE2/995201PEEU2 - 2Amp PSU* . 995201PE3/995201PEEU3 - 3Amp SMART PSU* 995201PE8/995201PEEU8 - 8Amp SMART PSU** XLarge 995203PE2/995203PEEU2 - 2Amp PSU*

995203PE3/995203PEEU3 - 3Amp SMART PSU* 995203PE8/995203PEEU8 - 8Amp SMART PSU**

Spare Mounting Plates for Medium, Large and WideBody Enclosures

999026 - Medium mounting plate to suit Integriti PCB's

999023 - Medium mounting plate to suit Concept PCB's

999006 - Large mounting plate to suit Concept or Integriti PCB's***

999027 - 2nd tier hinged expansion plate to suit WideBody enclosure

WideBody

995204PE3/995204PEEU3 - 3Amp SMART PSU* 995204PE8/995204PEEU8 - 8Amp SMART PSU** Rack Mount Drawer

995220PE2/995220PEEU2 2RU - 2Amp PSU* 995220PE3/995220PEEU3 2RU - 3Amp SMART PSU* 995220PE8/995220PEEU8 2RU - 8Amp SMART PSU**

Please see enclosure section or website for further details on enclosures Part numbers containing "EU" are for the European market

* Additional external power may be required for 2 and 3Amp models. ** Product scheduled for future release in Europe

*** Suitable for 995203 series enclosures only





DATA SHEET **Integrit** Standard LAN Access Module (SLAM)

DATA SHEET Integriti Standard LAN Access Module (SLAM)

The Integriti Standard LAN Access Module (SLAM) can be used to control and monitor up to 2 doors on the Integriti RS-485 LAN, (or via IP using LAN over Ethernet modules - Part. 995093 see page 69 of Product Catalogue).

The module supports 2 doors and up to 4 Inner Range RS-485 SIFER or third party OSDP readers to accommodate entry and exit readers on both doors. Alternatively, 2 Wiegand readers may be connected to allow control and monitoring of a single door with entry and exit readers or 2 doors with a single reader each.

The SLAM offers a complete suite of programmable options to provide advanced high-security access control, security area control and door alarm monitoring functions. Cached functionality is also provided via the on-board database to provide offline access control operation for up to 2,000 user cards if communications to the master Controller (ISC/IAC) are lost. Cache expiry time for the module can be configured with expiry times ranging from 1 hour to 4 months. In addition, each user has an option to be stored permanently within the modules cache, particularly useful for situations where certain staff may need to be guaranteed access if the module is offline.

The SLAM is also used for integration of wireless door locking systems from Assa Abloy Aperio, SimonsVoss or Salto Sallis. Please see our website for Wireless Locking system Integration Guides for more details.

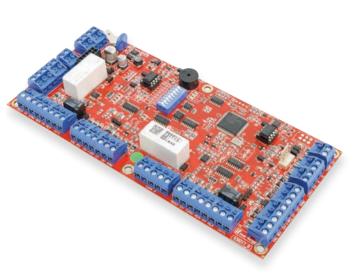
The power supply requirement is 11 to 14VDC and a range of Integriti plug on external 2Amp, 3Amp or 8Amp Switch Mode power supplies are available. The SMART 3Amp & 8Amp models are fully monitored via the Standard LAN Access Module.

Heavy duty relays are provided for lock switching, along with auxiliary outputs for "Valid", "Invalid" and "Door Open Too Long Warning" to control LEDs and/or buzzers.

Programming options allow for each Reader to be configured independently and security area control to be integrated with access control where required. Door Contacts and/or Tongue Sense inputs are utilized to provide "Door Forced" and "Door Open Too Long" alarms. Any spare zones may be used as general purpose zone inputs for use with PIR's, PE Beams, etc.

Features

- Offline 2.000 user card cache
- RS-485 Reader connectivity (up to 4 SIFER or compatible OSDP Readers)
- Entry and exit readers for both doors when using Inner Range SIFER or third party OSDP readers
- Reader options to control Doors, Lifts, Areas and Keypad User Logon
- Supports Wiegand card readers up to 88bits
- · Wiegand reader outputs with individual self-resetting overcurrent protection
- Aperio, SimonsVoss, Salto Sallis integration up to 2 Doors via RS-485 Reader port
- Dedicated lock power input
- · External Integriti power supply connection
- Full monitoring of external Integriti SMART power supply
- Heavy duty lock relays
- Reader Valid & Invalid outputs
- Door reed & tongue sense inputs per door
- Door request to enter & exit inputs per door
- DOTL relay outputs per door
- Dedicated cabinet tamper input RS-485 LAN connectivity
- Over-The-Wire firmware upgradeable
- Small PCB size 200 x 95mm
- Built-in module locater buzzer

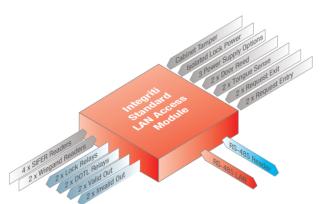


SLAM can be used for Integration with Aperio, SimonsVoss and Salto Sallis Wireless Door Locking Systems

Offline Cache Features

- Offline cache provided for 2,000 user cards
- Oldest card is overwritten by newest card when cache is full
- Configurable cache expiry times
- User cards can be made permanent in cache
- REX & REN buttons are also cached

Connectivity



Specifications

Dhycical

Small - 252(L) x 358(W) x 85(D) (mm): Part# 995200PE2 or	
Medium - 460(L) x 358(W) x 85(D) (mm): Part# 995201PE2	
XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE2,	
WideBody - 580(L) x 510(W) x 95(D) (mm): Part# 995204P	
Rack Mount - 2RU 680(L) x 420(W) x 85(D) (mm): Part# 99	
Integriti "B" size	
200(L) x 94(W) x 45(D) (mm)	
8.2 k.g. (Based on medium enclosure, mains transformer, 2	
0°C - 70°C @15% - 90% Relative humidity (non-condensir	
11V to 14VDC	
110mA standby. 175mA with lock relays on	
e the current required by readers or other external devices such as loc	
Reader +V connections. Protected with self-resetting PTC	
5 Amps @ 30VDC	
1 Amp @ 30VDC (Door Open Too Long output)	
Includes Lock+, Lock-, NO/COM/NC	
Includes Reed, 2 x 0v, Tongue, REN, REX, DOTL contacts	
Includes Valid, Invalid, OV, Reader+, D1, D0, ARM	
Includes Lock+, Lock- connections from external PSU	
2 pin connection for cabinet tamper switch	
1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP :	
1, Supports up to 4 Inner Range SIFER or compatible OSD	
ng (Compatible with Inner Range 3 & 8Amp SMART	
External PS AC Fail	
External PS Low Battery	
External PS I AN Fuse	
External PS Detector Fuse	
External PS Low Volts	
External PS Fail	

Environmenta

Ordering Options

Reader Options

Ø

RoHS



Standard LAN Access Module (SLAM) 996012PCB&K Standard LAN Access Module PCB & Kit.

Inner Range SIFER Smart Card Reader 994720 RS-485 multi-drop 128 bit AES encrypted DESFire© EV1/EV2 reader. 994720MF SIFER Smart Card Reader - As above + Multi-Format enabled to read the Card Serial Number of 3rd party cards

994725 SIFER Keypad/Reader 994725MF

SIFER Keypad/Reader Multi-Format enabled



Electrical



r 995200PE3 - houses 1 x 996012*
2, 995201PE3 or 995201PE8 - houses up to 3 x 996012*
995203PE3 or 995203PE8 - houses up to 5 x 996012*
PE3 or 995204PE8 - houses up to 6 x 996012*
95220PE2, 995220PE3 or 995220PE8 - houses up to 4 x 996012*

7AH battery and cover)

sks, buzzers, lamps or any device attached to the DOTL, Valid, Invalid and RS-485 Reader connections

switches)

P readers, or 1 Salto Sallis, Aperio or SimonsVoss wireless access control hub

PSU's)

Enclosure Options



SOUDE:

Enclosures

Small

995200PE2/995200PEEU2 - 2Amp PSU* 995200PE3/995200PEEU3 - 3Amp SMART PSU* Medium

995201PE2/995201PEEU2 - 2Amp PSU* . 995201PE3/995201PEEU3 - 3Amp SMART PSU* 995201PE8/995201PEEU8 - 8Amp SMART PSU** XLarge

995203PE2/995203PEEU2 - 2Amp PSU* 995203PE3/995203PEEU3 - 3Amp SMART PSU*

995203PE8/995203PEEU8 - 8Amp SMART PSU**

Please see enclosure section or website for further details on enclosures Part numbers containing "EU" are for the European market

* Additional external power may be required for 2 and 3Amp models.

** Product scheduled for future release in Europe

Spare Mounting Plates for Medium, Large and WideBody Enclosures

999026 - Medium mounting plate to suit Integriti PCB's

999023 - Medium mounting plate to suit Concept PCB's

999006 - Large mounting plate to suit Concept or Integriti PCB's***

999027 - 2nd tier hinged expansion plate to suit WideBody enclosure

WideBody

995204PE3/995204PEEU3 - 3Amp SMART PSU* 995204PE8/995204PEEU8 - 8Amp SMART PSU** Rack Mount Drawer

995220PE2/995220PEEU2 2RU - 2Amp PSU* 995220PE3/995220PEEU3 2RU - 3Amp SMART PSU* 995220PE8/995220PEEU8 2RU - 8Amp SMART PSU**

DATA SHEET **INTEGRITI** SIFER Smart Card Reader

DATA SHEET **INTEGRITI** SIFER Smart Card Reader

SIFER READER

The SIFER card reader is a Smart Card reader designed and manufactured by Inner Range. It is a multi-drop RS-485 based reader that employs 128 bit AES 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/EV2 card format.

As SIFER readers utilise a superset of the OSDP protocol, the readers may also be deployed on any system capable of using OSDP. SIFER readers are connected to the RS-485 reader port for full Reader-In and Reader-Out operation of various Inner Range products as below.

- Integriti Access Controller (IAC) Up to 16 Readers
- Integriti Intelligent LAN Access Module (ILAM) Up to 16 Readers • Integriti Standard LAN Access Module (SLAM) - Up to 4 Readers

SIFER readers are IP67 rated and available with site-specific encryption keys.

Four card ordering options are available:

- 1. SIFER-P: Pre-programmed 'stock' cards with card number printed. The most cost-effective option but card customisation is not supported. With more than four billion card numbers available each SIFER-P card is guaranteed to be unique.
- 2. SIFER-U: User Programmable cards that allow an installer to customise the card number, site code and use their own encryption key. Printed with factory card number.
- 3. **SIFER-C:** Custom batch orders configured by the factory according to the specified card number range, site code, encryption key and printing options. Cards cannot be re-programmed at a later stage by the installer or the factory.
- 4. ECOLITE: ECOLITE is a budget range of credentials that is compatible with Inner Range SIFER Readers, Integriti & Inception systems. These credentials are based on the MIFARE Ultralight EV1 technology which is a lower priced - lower security option compared to the standard DESFire EV1/EV2 technology used in our SIFER-P, SIFER-U & SIFER-C range of credentials.

Features

- Secure 128bit AES Encryption
- Encrypted from Card Through to Access Module
- Mifare DESFire© EV1/EV2 Card Format
- Water & Dust Resistant to IP67
- Vandal Resistant (fully potted)
- Flexible LED Colour & Function Assignment
- Audible Buzzer (can use as DOTL)
- Multi-drop RS-485 Reader LAN
- Individual Reader Heartbeat Monitoring
- Integriti Auto Reader Discovery
- OSDP Compatible
- Read Card Serial Number (CSN) From 3rd Party Cards (Multi-Format Version Only)
- Support for Custom Site Codes and Site Specific Encryption
- User Programmable Cards Offer Great Flexibility For Installers
- Global Configuration From Integriti Systems (including firmware updates)
- Small Footprint (Dimensions: 39 (W) x 93 (H) x 15 (D) mm)

	range
Format Version	MULT

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Multi-F

The SIFER Multi Format Card reader offers an identical set of features to the Standard SIFER Reader with additional support for reading the CSN of third party 13.56Mhz credentials.

SIFER Connectivity Guide	5	SIFER Host Modul	e
	IAC	SLAM	ILAM
SIFER Reader Qty	16	4	16



A plug-on SIFER Reader board is available for EliteX & PrismaX Keypads. When fitted. SIFER access cards can be presented at the Keypads for card a 🖪 🗐 🗊 & PIN login or for access control on a local door.

Environmenta

Finner range

Mounting Holes: Mounting Surface:	65.5mm hole spacing Optimised for flat non-metallic surfaces	
Cavity Cable Entry Hole:	Up to 20mm	
Installation Environment:	-35°C to 65°C @15% - 90% relative humidity (non-conder	
Ingress Protection:	IP67	
Reader Protocols		
Device Communications:	Open Supervised Device Protocol (OSDP)	
Operating Frequency:	13.56 Mhz	
Credentials:	Mifare DESFire© EV1/EV2 with AES encryption	
Credentials:	Read Card Serial Number (CSN) from 3rd party cards (MF I	
Connections		
Pigtail Cable Length:	500mm	
Pigtail Extension Cable Type:	2-pair 7/0.20 twisted pair data cable as minimum. 2-pair 14/0.20 multi-strand shielded twisted pair data cab (e.g. Belden 8723). See installation manual for more info.	
Connection Methods:	RS-485 multi-drop star or daisy chain configurations	
Total Overall Cable Length:	1000 meters total on one RS-485 reader port guaranteed	
Max Readers:	Up to 16 with IAC & ILAM, Up to 4 with SLAM	
Compatible Integriti Host Modules:	Standard LAN Access Module (SLAM), Intelligent LAN Acc (ILAM), Integriti Access Controller (IAC)	
Reader Security		
Physical Tamper:	Optical beam to mounting surface	
Card to Reader:	128bit AES encryption	
Reader to Access Module:	128bit AES encryption	
Vandal Resistance:	Fully encapsulated vandal resistant electronics	
Reader Configuration		
LAN Addressing:	Fully automatic when used with Integriti systems Manual addressing with 3rd party OSDP compatible syste	
Firmware Updates:	Over-the-wire firmware updates when used with Inner Ra	
Reader Purpose Options:	Control a Door, Control a Lift, Log on, Area status toggle	
LED & Beeper Indicators		
LED Configuration:	Brightness, Colours & Feedback modes - configurable via	
LED 1 & 2 Colour Options:	RGB Indicator 23 colour selectable	
Feedback Modes for LED's:	Area Status, Area Alarm/Isolated, Entry/Exit Delay, Door open/locked status, Valid/Invalid card badge, No LED's	
Beeper Volume:	Variable - configurable via Integriti software	
Beeper Feedback Options:	Valid/Invalid card badge, Door Open tool long (DOTL), Are	
Power Requirements		
Input:	11-14V DC <500mV ripple	
Current Consumption: 75-100mA typical, 150mA MAX with all LED's driven		

**SIFER-C cards are programmed with a custom encryption key and will require at least one SIFER Reader Configuration card with the initial batch. The SIFER Reader Configuration Card is available under Part Number 994614CNF

RoHS



Ordering Options

ondensina)

(MF Model Only)

ta cable is preferred

nteed

AN Access Module

ner Range systems

ole via Integriti Softwar

L), Area Alarm, Entry/Exit Delay

at full brightness





994720

SIFER Smart Card Reader - Multi Format Version

Credentials

ISO Cards 994610

SIFER-P DESEire© EV2 4K ISO (Pre-programmed- Printed)

994612 SIFER-U DESFire© EV2 4K ISO (User Programmable - Printed)

994614** SIFER-C DESFire© EV2 4K ISO (Custom Programmed - Printed)

994580 ECOLITE MIFARE Ultralight EV1 (Pre-programmed)

Key FOB's

994616 SIFER-P DESFire© EV2 4K FOB (Pre programmed - Printed)

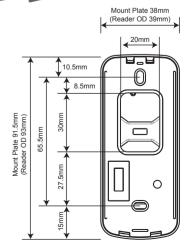
994618 SIFER-U DESFire© EV2 4K FOB (User Programmable - Printed)

994620** SIFER-C DESFire© EV2 4K FOB (Custom Programmed - Printed)



Management Tools

994750AU SIFER Card Programming Station 994751 SIFER Card Enrollment Station



Hardware

Finner range

DATA SHEET **INTEGRITI** SIFER KEYPAD Smart Card Reader

DATA SHEET **INTEGRITI** SIFER KEYPAD Smart Card Reader

SIFER KEYPA

The SIFER Keypad is a combined IP67 rated Keypad and Smart Card reader that allows dual credential Card & PIN high security access control. (PIN only or Card only is also supported)

The SIFER Keypad is a multi-drop RS-485 device that employs 128 bit AES encryption from the card/keypad through to the door module, providing a far superior level of security than that of traditional Wiegand based keypads & card readers.

SIFER Keypads utilise the Mifare DESFire© EV1/EV2 card format. As SIFER Keypads utilise a superset of the OSDP protocol, the keypads may also be deployed on any system capable of using OSDP. SIFER Keypads are connected to the

RS-485 reader port for full Reader-In and Reader-Out operation of various Inner Range products as below.

- Integriti Access Controller (IAC) Up to 16 Keypads/Readers
- Integriti Intelligent LAN Access Module (ILAM) Up to 16 Keypads/Readers
- Integriti Standard LAN Access Module (SLAM) Up to 4 Keypads/Readers

SIFER Keypads are IP67 rated and available with site-specific encryption keys. Three card ordering options are available for use with the SIFER Keypad.

- 1. SIFER-P: Pre-programmed 'stock' cards with card number printed. The most cost-effective option but card customisation is not supported. With more than four billion card numbers available each SIFER-P card is guaranteed to be unique.
- 2. SIFER-U: User Programmable cards that allow an installer to customise the card number, site code and use their own encryption key. Printed with factory card number.
- 3. SIFER-C: Custom batch orders configured by the factory according to the specified card number range, site code, encryption key and printing options. Cards cannot be re-programmed at a later stage by the installer or the factory.
- 4. ECOLITE: ECOLITE is a budget range of credentials that is compatible with Inner Range SIFER Readers, Integriti & Inception systems. These credentials are based on the MIFARE Ultralight EV1 technology which is a lower priced - lower security option compared to the standard DESFire EV1/EV2 technology used in our SIFER-P, SIFER-U & SIFER-C range of credentials.

Features

- Secure 128bit AES Encryption
- Encrypted from Keypad/Card through to Access Module
- Supports Card&PIN, Card only or PIN only modes
- Auto dimming backlit Silicon rubber keypad
- Mifare DESFire© EV1/EV2 Card Format
- Water & Dust Resistant to IP67
- Vandal Resistant (fully potted)
- Flexible LED colour & function Assignment
- Audible Buzzer (can use as DOTL)
- Multi-drop RS-485 Reader LAN
- Individual Reader Heartbeat Monitoring Integriti Auto Reader Discovery
- OSDP Compatible

З 5 6 7 8 9 # * **Finner** range

Multi-Format Version

A SIFER Multi-Format Keypad/Card reader is also available and offers an identical set of features to the Standard SIFER Keypad with additional support for reading the CSN of third party 13.56 Mhz credentials

SIFER Connectivity Guide	SIFER Host Module		
	IAC	SLAM	ILAM
SIFER Reader Qty	16	4	16

- Read Card Serial Number (CSN) From 3rd Party Cards (Multi-Format Version Only)
- Support for Custom Site Codes and Site Specific Encryption
- User Programmable Cards Offer Great Flexibility for Installers
- Global Configuration From Integriti Systems (including firmware updates)
- Small Footprint (Dimensions: 64 (W) x 106(H) x 18 (D) mm)

A plug-on SIFER Reader board is available for EliteX & PrismaX Keypads. When fitted. SIFER access cards can be presented at the Keypads for card & PIN login or for access control on a local door.



Specifications	
Physical	
Reader Size:	

Reader Size:	106(L) x 64(W) x 18(D) (mm)	
Keypad Button Size:	12.3 X 9 (MM) Auto-dimming back lit	
Mounting Plate:	102.7(L) x 60.2(W) (mm)	
Mounting Method:	2 x fixing screws for mounting plate	
Mounting Holes:	65.5mm hole spacing	
Mounting Surface:	Optimised for flat non-metallic surfaces	
Cavity Cable Entry Hole:	Up to 20mm	
Installation Environment: -	35°C to 65°C @15% - 90% relative humidity (non-condensing)	
Ingress Protection:	IP67	
Reader Protocols		
Device Communications:	Open Supervised Device Protocol (OSDP)	
Operating Frequency:	13.56 Mhz	
Credentials:	Mifare DESFire© EV1/EV2 with AES encryption	
Credentials:	Read Card Serial Number (CSN) from 3rd party cards (MF Model Only)	
Connections		
Pigtail Cable Length:	500mm	
Pigtail Extension Cable Type:	2-pair 7/0.20 twisted pair data cable as minimum. 2-pair 14/0.20 multi-strand shielded twisted pair data cable is preferred (e.g. Belden 8723). See installation manual for more info.	
Connection Methods:	RS-485 multi-drop star or daisy chain configurations	
Total Overall Cable Length:	1000 meters total on one RS-485 reader port guaranteed	
Max Readers:	Up to 16 with IAC & ILAM, Up to 4 with SLAM	
Compatible Integriti Host Modules:	Standard LAN Access Module (SLAM), Intelligent LAN Access Module (ILAM), Integriti Access Controller (IAC)	
Reader Security		
Physical Tamper:	Optical beam to mounting surface	
Card to Reader:	128bit AES encryption	
Reader to Access Module:	128bit AES encryption	
Vandal Resistance:	Fully encapsulated vandal resistant electronics	
Reader Configuration		
LAN Addressing:	Fully automatic when used with Integriti systems Manual addressing with 3rd party OSDP compatible systems	
Firmware Updates:	Over-the-wire firmware updates when used with Inner Range systems	
Reader Purpose Options:	Control a Door, Control a Lift, Log on, Area status toggle	
Keypad, LED & Beeper Indicators		
Keypad:	Backlit auto-dimming silicon rubber keypad with a highly tactile operation feel	
LED Configuration:	Brightness, Colours & Feedback modes - configurable via Integriti Software	
LED 1 & 2 Colour Options:	RGB Indicator 23 colour selectable	
Feedback Modes for LED's:	Area Status, Area Alarm/Isolated, Entry/Exit Delay, Door	
	open/locked status, Valid/Invalid card badge, No LED's	
Beeper Volume:	Variable - configurable via Integriti software	
Beeper Feedback Options:	Valid/Invalid card badge, Door Open tool long (DOTL), Area Alarm, Entry/Exit Delay	
Power Requirements		
Power supply	11V-14V DC< 500mV ripple	
Current consumption	75mA – 115 mA, 165 mA max, depends on LED's configuration	
Compliance	^	
Electrical:		
Environmental:	RoHS 🕱	

**SIFER-C cards are programmed with a custom encryption key and will require at least one SIFER Reader Configuration card with the initial batch. The SIFER Reader Configuration Card is available under Part Number 994614CNF



Ordering Options

1 2 3

4 5 6

7 8 9

* 0 #





994725

SIFER Keypad/Smart Card Reader

994725MF SIFER Keypad/Smart Card Reader -Multi Format Version

Credentials

ISO Cards

994610 SIFER-P DESFire© EV2 4K ISO (Pre-programmed-Printed)

994612 SIFER-U DESFire© EV2 4K ISO (User Programmable - Printed)

994614** SIFER-C DESFire© EV2 4K ISO (Custom Programmed - Printed)

994580 ECOLITE MIFARE Ultralight EV1 (Pre-programmed)

FOB's

994616 SIFER-P DESFire© EV2 4K FOB (Pre-programmed - Printed)

994618 SIFER-U DESFire© EV2 4K FOB (User Programmable - Printed)

994620** SIFER-C DESFire© EV2 4K FOB (Custom Programmed - Printed)

Management Tools

994750AU SIFER Card Programming Station 994751 SIFER Card Enrolment Station

Mount Plate 60.20 (Reader OD 64) 11.5mn 02.7 oD OD



14 2mm







DATA SHEET **INTEGRITI** SIFER Credentials

INTEGRITI OSDP <> Wiegand Converter

A wide variety of credentials are available to suit Inner Range SIFER card readers. SIFER credentials are available in various form factors for use with physical and logical access control systems. All SIFER credentials use the highly secure MIFARE® DESFire©® EV2 card format. Form factor types for SIFER credentials include: ISO Cards, Key Fobs, self-adhesive Taqs/Coils and Wristbands. Three ordering options are available for each form factor type.



SIFER-P: Pre-programmed 'Stock' Credentials.

SIFER-P credentials are pre-programmed with the Inner Range Global Encryption Key and can be used with standard SIFER Readers without any need for card or reader configuration. SIFER-P credentials are supplied with a pre-programmed site code and a card number that is guaranteed to be unique and are 'locked' to disallow re-programming in the field. SIFER-P credentials are supplied with the SIFER-P mark and are printed with the unique card number.

SIFER-U: User-programmable Credentials.

SIFER-U credentials have an identical set of specifications to that of SIFER-P with the major difference being that they can be re-programmed in the field. By default SIFER-U credentials are shipped pre-programmed with the Inner Range SIFER Global Encryption Key and can be used with standard SIFER Readers without any need for card or reader configuration. Although SIFER-U credentials are supplied pre-programmed, the site code and encryption key can be re-programmed in the field using a SIFER card programming station. (It is not recommended to re-program SIFER-U card numbers as they are already unique)

When SIFER-U credentials have been re-programed, the SIFER readers must also be re-configured to use the same encryption key. To perform the Reader configuration a "Reader Configuration Card" must be produced using the SIFER card programming station.

SIFER-U customisation is a process that is carried out by the installer and as such the unique encryption key must be stored and managed for safekeeping by the installer, this facilitates additional card batches at a future date. Where a unique SIFER-U encryption key has been lost it cannot be recovered.

SIFER-U: Gold Card Service.

As an alternative to the installer specifying their own custom encryption key, Inner Range offers a 'Gold Card' service, providing the installer with a unique Gold Key Configuration Card ('Gold Card'). The Gold Card delivers a guaranteed unique custom encryption key for use with the SIFER programming station and SIFER-U credentials. Inner Range assigns a unique encryption key from the reserved 'Gold Card' range. The encryption key is then associated with the customer's site to facilitate future card orders. The encryption key is securely stored within Inner Range where it cannot be viewed or shared. Being a reserved key, the key can never be manually entered using a SIFER programmer.

SIFER-C: Custom Programmed Credentials & Reader Configuration Cards.

The SIFER-C option allows installers to order reader configuration cards and user credentials from the factory with specific custom programming. SIFER-C allows the card number range, site code and encryption key to be programmed to order. SIFER-C card numbers are guaranteed to be unique and are 'locked' to disallow credential re-programming in the field. SIFER-C credentials are supplied with the SIFER-C mark and are printed with the unique card number. Where SIFER-C credentials are to be deployed the SIFER readers/keypads on the site must also be re-configured to use the matching encryption key. To accommodate this a Reader Configuration Card (994614CNF) is also required.

ECOLITE: Budget-friendly, Less Secure.

ECOLITE is a budget range of credentials that is compatible with Inner Range SIFER Readers, Integriti & Inception systems. These credentials are based on the MIFARE Ultralight EV1 technology which is a lower priced - lower security option compared to the standard DESFire EV1/EV2 technology used in our SIFER-P, SIFER-U & SIFER-C range of credentials.

Ordering Options

Standard SIFER Crede tials. All credentials are MIFARE® DESFire©® EV2 4K



43







SIFER-U Gold Card 994612G for use with SIFER-U credentials

Self Adhesive 20mm Coils SIFER-P Tag/Coil 994621P SIFER-U Tag/Coil 994621U

Key Fobs SIFER-P Key Fob 994616

SIFER-U Kev Fob 994618

SIFER-C Key Fob 994620



994614CNF for use with SIFER-C credentials & SIFER readers and Keypad Readers

Special Order Multi Application Cards & Fobs* 994614A Dual Application ISO card SIFER/Aperio 994614H Dual Application ISO card SIFER/HID 994614AH Tri Application ISO card SIFER/Aperio/HID

994620A Dual Application Key Fob SIFER/Aperio 994620H Dual Application Key Fob SIFER/HID 994620AH Tri Application Key Fob SIFER/Aperio/HID *All multi-application credentials must be based on MIFARF® DESFire©® EV1/EV2 media (56 bit)

SIFER Reader Configuration Card



Option 1: Connect Wiegand readers to OSDP ports via the Converter

A Wiegand reader can now be connected to an OSDP port. This allows Wiegand readers to make use of many of the benefits that an OSDP reader bus provides:

- 128bit AES encrypted communication path
- 4-core cables to the module, while still offering beeper, valid and invalid LED control
- Longer cable runs
- More flexible wiring configurations (for example, daisy-chaining readers together for a single run back to the module).

In practice, this allows up to 16 Wiegand readers to be connected directly to an Integriti Access Module (4 for SLAM), allowing read-in and read-out abilities on all doors. This is perfect if upgrading an existing site with access control to Integriti.

The advanced control that Integriti offers for a Wiegand reader's beeper and valid/invalid LEDs are also available when connected to the OSDP <> Wiegand Converter. This allows numerous area events like arm success or failure, entry delay, exit delay, alarm and area arm warning, or door events like door unlocked and held open too long to make use of the inbuilt Wiegand reader's beeper and LEDs to provide feedback to users.

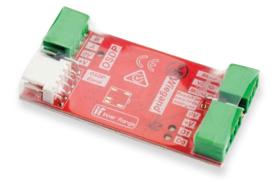
Option 2: Connect OSDP readers to Wiegand reader port.

Via the Converter, OSDP readers such as Inner Range SIFER readers or other products can now be connected to existing Wiegand reader ports. This allows SIFERs, for example, to be used on older Concept access modules where the system is being upgraded to use an Integriti ISC/IAC Controller.

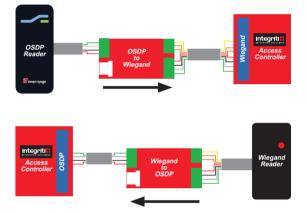
Specifications

Physical	
PCB Size:	85(L) x 35(W) x 15(D) (mm) Including connectors
Mounting Method:	Within a secure location - can be mounted using velcro s
Installation Environment:	0° to 65° Celsius. 15-85% Relative humidity (non-conden
Reader Protocols	
Device Communications:	OSDP, SIFER & Wiegand
Connections	
OSDP Port:	4 pin connector +V, Ov, A, B
Wiegand Reader:	4 pin connector D0, D1, +V, 0
Wiegand LED & Beeper:	3 pin connector Invalid LED, Valid LED, Beeper
Port 0:	5 pin connector to suit Port 0 cable (993030USB)
Reader Security	
OSDP Communications Bus:	128bit AES encryption
Device Configuration	
Configurable options include:	RS-485 OSDP Baud Rate, Wiegand bit length, OSDP reade OSDP reader 2nd LED colour, SIFER reader LED brightnes: SIFER reader speaker volume
Power Requirements	
Input:	11-14V DC
Current Consumption:	Idle 20mA - Peak 35mA (Not including any connected rea
Compliance	
Electrical:	۵ (۴
Environmental:	RoHS 🕱





Connectivity



Ordering Options

994200

OSDP <> Wiegand Converter

Hardware

Features

- Convert Wiegand to OSDP format
- Convert OSDP to Wiegand format
- Auto reader enrollment in OSDP to Wiegand mode
- Configurable via HyperTerminal using a Port 0 Cable (993030USB) Configurable options include:
- RS-485 OSDP Baud Rate
- Wiegand bit length
- OSDP reader primary LED colour
- OSDP reader 2nd LED colour
- SIFER reader LED brightness
- SIFER reader speaker volume

der primary LED colour,

aders, LEDS or beepers)

DATA SHEET **INTEGRITI** SIFER Card Programming Station

DATA SHEET **INTEGRITI** SIFER Card Enrolment Station

The SIFER Card Programming Station is an installer tool featuring a USB connected SIFER programming head, which is used in conjunction with the accompanying SIFER Card Programming Software. This system allows SIFER "User Programmable" cards, known as SIFER-U cards to be encoded with customised site codes and encryption keys by the installer. The programming station is also used to create the SIFER Reader Configuration Card which is necessary to configure SIFER readers to decrypt the sites unique encryption key.

SIFER-U cards are available as ISO style cards or FOBS and are readily available from Inner Range distributors. Before leaving the Inner Range factory each SIFER-U cards is pre-programmed, with a standard encryption key, site code and unique card number. This allows SIFER-U cards to be used in the field as they are, or they can be encoded to the installer's requirements using the SIFER Programming Station.

The SIFER Programmer allows the installer to encode card details of their own choosing, and the following aspects can be changed:

- Site Code
- Encryption Key (32 HEX Digits)

It is also possible to change the card number, however this is usually unnecessary as every SIFER-U card already carries a unique card number which is etched onto the card. If a SIFER-U cards standard site code or card number are to be changed, the default encryption key must also be changed.

Encoding Parameters

- Site Codes: Between 1 16.7 million (16,777,215) (some site codes are reserved for Inner Range use)
- Encryption Key: Specified 32 digit hexadecimal string or automatically generated by the Card Programming Software
- Card Numbers: Between 1– 4.3 billion (4,294,967,295)



The SIFER Card Enrollment Station is designed to conveniently allow SIFER cards to be enrolled into an Inner Range Integriti system at a computer workstation using the Integriti software.

This allows system administrators to enroll new SIFER cards into the Integriti system without the need to physically enter the card data into the system.

Specifications

Electrical Specifications	
Power Supply Source:	5V DC from PC USB Port.
Output to PC:	USB 2.0

Mechanical Specifications

The SIFER Card Programming Station	on is supplied as a desktop unit which may be wall mounted if required.	
Dimensions: Length:	190mm	-
Width:	134mm	
Height:	65mm	
USB Cable length:	1.5 metres	

Windows software, downloadable from Inner Range website

Installation environment should be maintained at a temperature of 0° to 50° Celsius and 15% to 90% Relative humidity (non-condensing)

Software

Programming Station Software:





994612G for use with SIFER-U credentials

Ordering Options

Management Tools

994750AU SIFER Card Programming Station



Credentials

ISO Cards

994612





994618 SIFER-U DESFire© EV2 4K FOB (User Programmable - Printed)

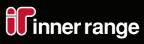
SIFER-U DESEire© EV2.4K ISO (User Programmable - Printed)

Specifications

Electrical Specifications	
Power Supply Source:	5V DC from PC USB Port.
Output to PC:	USB 2.0
Integriti/Infiniti Software Compatibility	V4.1 or later.

Mechanical Specifications

Dimensions: Length:	190mm	
Width:	134mm	
Height:	65mm	
USB Cable length:	1.5 metres	





Hardware

Ordering Options





Management Tools 994751 SIFER Card Enrollment Station



DATA SHEET **Integriti** 8 Zone LAN Expander

DATA SHEET **Integriti** 8 Zone LAN Expander

The Integriti 8 Zone LAN Expander Module connects directly to the Integriti or RS-485 LAN and provides an additional 8 Zone Inputs, 2 Auxiliary Outputs and 2 Siren drivers.

Up to 99 Zone Expander Modules can be connected to the RS-485 LAN (or via IP using LAN over Ethernet modules - Part. 995093 see page 69 of Product Catalogue).**

The 8 Zone LAN Expander Module also offers a UniBus in-cabinet expansion interface allowing further expansion of Zone Inputs and Auxiliary Outputs using plug on UniBus expansion devices fitted within the same tamper-protected enclosure. Up to 32 Zone Inputs or 32 Auxiliary Outputs can be connected to the Module (32 Zones and 26 Auxiliaries or 24 Zones and 32 Auxiliaries at the same time).

The power supply requirement is 11 to 14VDC and a range of Integriti plug on external 2Amp, 3Amp or 8Amp switch mode power supplies are available. Integriti external power supplies are fully monitored via the 8 Zone Expander Module.

** Where it is necessary to connect large numbers of Zone Expanders to the Integriti RS-485 LAN, the use of LAN Isolators or other LAN retransmission devices such as Fibre Moderns or CLOE modules is recommended. The total amount of zone inputs available in the system is dependent on the SMART card level fitted to the Controller (See the Inteariti ISC/IAC Controller data sheets for details).



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

Connectivity

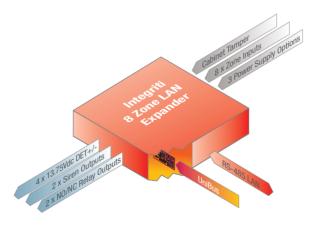


RS-485 LAN connectivity

- UniBus In-Cabinet Expansion Interface
- 8 Zone Inputs Multistate or Analogue
- 2 Auxiliary Output Relays
- External Integriti power supply connection
- Three options for power supply size 2Amp, 3Amp & 8Amp
- Six enclosure size options
- Dedicated Tamper Input
- Internal & External variable tone Siren Outputs
- 4 Terminals supplying 13.75VDC nominal Detector Power
- Over-The-Wire firmware upgradable
- On-board diagnostic LED's to assist with commissioning and troubleshooting
- Small PCB size 200 x 95mm Built-in module locater buzzer

Expansion Capabilities

- Zone Inputs Expandable to 32 via UniBus***
- Auxiliary Outputs (Relays) Expandable to 32 via UniBus***
- ***32 Zones and 26 Auxiliaries or 24 Zones and 32 Auxiliaries at the same time



Specifications

Dh

Physical	
Enclosure Options:	XSmall - 252(L) x 263(W) x 85(D) (mm): Part# 995200XS
	Small - 252(L) x 358(W) x 85(D) (mm): Part# 995200PE2 o
	Medium - 460(L) x 358(W) x 85(D) (mm): Part# 995201PE
	XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE2,
	WideBody - 580(L) x 510(W) x 95(D) (mm): Part# 995204F
	Rack Mount - 2RU 680(L) x 420(W) x 85(D) (mm): Part# 99
PCB Size Code:	Integriti "B" size
PCB Dimensions:	200(L) x 94(W) x 45(D) (mm)
Weight:	300g (For PCB & accessories Only)
nstallation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensi
Electrical (For PCB Only)	
Power Supply Input:	11V to 14VDC
Current Consumption:	60mA standby. 100mA with both Aux relays on
NOTE: Current consumption does not	include the current required by detectors or other external devices s
Contact Ratings	
Aux Relays:	2 Amps @ 30VDC
Connections	
Zone Inputs:	8 x Multistate Zone Inputs
Aux Outputs:	2 x Relay Output NO/COM/NC
Cabinet Tamper:	2 pin connection for cabinet tamper switch
JniBus Port:	1 x UniBus Host expansion port
RS-485 LAN:	1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP
Siren Outputs:	1 x Internal & 1 x External variable tone Siren Outputs*
Power Supply:	1 x Integriti External Power Supply Connection
Power Outputs:	4 x 13.75Vdc nominal outputs (DET+/DET- Detector Powe
External Power Sunnly Monit	Dring (Compatible with IR SMART PSU Devices)
AC Fail:	External PS AC Fail
Low Battery:	External PS Low Battery
AN Fuse:	External PS LAN Fuse
Detector Fuse:	External PS Detector Fuse
Low Volts:	External PS Low Volts
PSU Fail:	External PS Fail
Compliance	
	A
Electrical	<i>⊠</i> (€

Ordering Options

Electrical

Environmental "Siren drivers fitted from PCR revision "R"

996005PCB&K

996500PCB&K

996515PCB&K

996540PCB&K

8 Zone I AN Expander Module PCB & Kit

UniBus expansion options to suit above

UniBus 8 Zone Expansion device

UniBus 8 Relay(Aux) Expansion device

UniBus 16 Floor Lift Interface device

See separate data sheets for UniBus devices

X

RoHS



Enclosures 995200PE2/995200PEEU2 - 2Amp PSU* 995200PE3/995200PEEU3 - 3Amp SMART PSU* Medium 995201PE2/995201PEEU2 - 2Amp PSU* 995201PE8/995201PEEU8 - 8Amp SMART PSU** 995220PE8/995220PEEU8 2RU - 8Amp SMART PSU** XLarge 995203PE2/995203PEEU2 - 2Amp PSU* 995203PE3/995203PEEU3 - 3Amp SMART PSU* 995203PE8/995203PEEU8 - 8Amp SMART PSU**

Please see enclosure section or website for further details on enclosures. Part numbers containing "EU" are for the European market * Additional external power may be required for 2 and 3Amp models. ** Product scheduled for future release in Europe *** Suitable for 995203 series enclosures only



Finner range

or 995200PE3 E2. 995201PE3 or 995201PE8 , 995203PE3 or 995203PE8 4PE3 or 995204PE8 995220PE2, 995220PE3 or 995220PE8

sing)

such as buzzers, lamps or any device attached to the DET+, LAN+ and UniBus connections



switches)

Enclosure Options



Spare Mounting Plates for Medium, Large and WideBody Enclosures

999026 - Medium mounting plate to suit Integriti PCB's

999023 - Medium mounting plate to suit Concept PCB's

999006 - Large mounting plate to suit Concept or Integriti PCB's***

999027 - 2nd tier hinged expansion plate to suit WideBody enclosure

WideBody

995204PE3/995204PEEU3 - 3Amp SMART PSU* 995204PE8/995204PEEU8 - 8Amp SMART PSU** Rack Mount Drawer

995220PE2/995220PEEU2 2RU - 2Amp PSU* 995201PE3/995201PEEU3 - 3Amp SMART PSU* 995220PE3/995220PEEU3 2RU - 3Amp SMART PSU*

DATA SHEET Integriti UniBus 4 Way Analogue Input Expander

DATA SHEET **Integriti** UniBus 4 Way Analogue Input Expander

The UniBus 4 Way Analogue Input Expander provides the capability to monitor, report and action on analogue values within an Integriti system. The device can be programmed to operate an auxiliary when an analogue level from one or more of its independent analogue inputs exceeds or goes below a pre-programmed trigger point. Analogue levels can be monitored and controlled in scaled units through the Integriti software or at any EliteX Terminal.

The Analogue input device is hosted via a UniBus connection to the Integriti Security Controller (ISC) or the Integriti 8 Zone LAN Expander. The device is designed for installation within the same tamper-protected enclosure as its UniBus host module.

Each of the 4 inputs can be configured to operate in any one of 3 modes

1) Serial Mode - For use with the Inner Range Serial Temperature Sensor (Part. 995089)

2) Voltage Monitor Mode - For monitoring voltages from 0 to 10V DC

3) Current Loop Monitor Mode - For monitoring current from 4 to 20mA DC

The Analogue Module allows the programmer or installer a variety of selectable mode settings and levels with which to configure the system to the particular application. The trigger point, output auxiliary, tamper levels and hysteresis values may be individually selected for each input.

Host Module Compatibility

The UniBus 4 Way Analogue Input Expander is compatible with the following UniBus Host Modules:

• Integriti ISC Controller (Part. 996001 series) - Connect up to 4

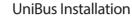
• Integriti 8 Zone RS-485 LAN Expander (Part. 996005PCB&K) - Connect up to 6



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

Connectivity







UniBus Devices are designed for installation within the same

are all within the intended functionality of the host module

enclosure as the UniBus host module. A UniBus host can interface a

maximum of six UniBus devices in any combination, provided they

Analogue Inputs: (I+: 1W+ Serial Sense Inputs UniBus Port: UniBus Loop-throud Connection to Host

Physical

Height: Installation Environn

Electrical

CI + Outputs: 1W+ Output

Connections

PCB Size Code: PCB Size

PCB size including sr

Power Supply Input:

Static Current Consu

Power Considerations

- Static Current of host module - Host module battery charging current

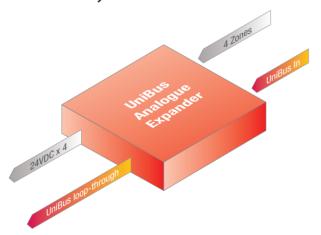
Compliance

Electrical

Environmental

Features

- 4 Universal Analogue Zone Inputs
- 3 mode options per input Serial, Voltage or Current loop
- Compatible with Inner Range Serial Temperature Sensor (Part. 995089 - See page 68)
- Programmable hysteresis setting
- DIP switch addressable first zone 1, 5, 9, 13, 17, 21, 25, 29
- 24V DC output for current loop supply
- UniBus loop-through connectors
- 2 LED status/fault indicators
- Resettable surge protected inputs Over-The-Wire firmware upgradeable
- Integriti "C" size footprint 94 x 94mm
- Can be installed above other "C" size PCB's**
- A Snap off strip is included to allow installation above Integriti "B" size PCB's**
- ** 35mm standoff kit required Part Number 999009



Serial Temperature Sensor erts it to an 8-bit digital value. sensor records the temperature and conve The digital data is then sent to the Analogue Module to be processed Each Serial Temperature Sensor is supplied with a wall mounting kit and requires no further calibration.

995089 Serial Temperature Sensor

996560PCB&K

cable)



Specifications

	Integriti "C" size
	94(L) x 94(W) (mm)
snap off strip:	105(L) x 94(W) (mm)
	15(D)(mm) (28mm with UniBus cable connected)
ment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing)
.	11V to 14V DC via host module
umption:	50mA idle ~ 230mA (Max with all inputs in loop mode supplying 20mA per input)
	24V DC Current Loop Output Voltage
	5VDC for connection to +DAL on 995089 Serial Temperature Sensor
	4
	1 per Input
	1
	4
	1
gh Port:	1
: Module:	Via 270mm UniBus patch lead (supplied)

The UniBus host module supplies current and static device current to all connected UniBus devices

- Total current consumption is, therefore the sum of all:
- Static Current of all connected UniBus devices
- Ancillary devices connected to all DET+, CL+, 1W+ connections
- Ancillary devices connected to host module's RS-485 LAN+



Ordering Options



Integriti UniBus Analogue Input Expander PCB & Accessories (Includes 270mm UniBus patch

(Due for release late 2018)



Spare UniBus patch cables 996791SS - UniBus Patch Cable 150mm 9967915 - UniBus Patch Cable 220mm 996791L - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XI - UniBus Patch Cable 675mm



DATA SHEET **Integriti** UniBus 2 Door / 2 Reader Expander

DATA SHEET Integriti UniBus 2 Door / 2 Reader Expander

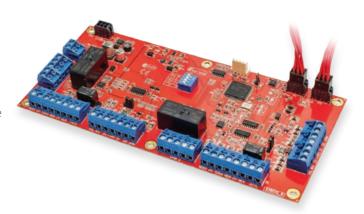
The UniBus 2 Door / 2 Reader Expander can be used to provide control and monitoring of 2 additional Doors or Readers on a compatible UniBus host module. When connected to the Integriti Intelligent LAN Access Module, the UniBus 2 Door / 2 Wiegand Reader expander can provide installation configurations for 4, 6 or 8 doors. SIFER or third party OSDP RS-485 readers can be assigned via the host module for Read In & Read Out access control on each door.

The UniBus 2 Door / 2 Reader Expander is designed for installation within the same tamper-protected enclosure as its UniBus host module. The UniBus device is connected directly to the host module or daisy-chained to another UniBus device via the UniBus patch cable supplied. Up to 3 UniBus 2 Door / 2 Reader Expander devices can be connected.

Host Module Compatibility

The UniBus 2 Door / 2 Reader Expander is compatible with the following UniBus Host Modules:

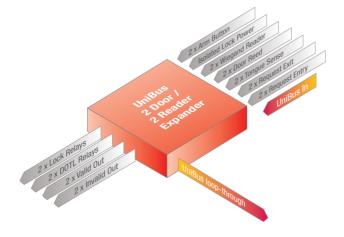
 Integriti Intelligent LAN Access Module (Part. 996018PCB&K) Integriti IAC Controller (Part. 996035PCB&K)



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

Features

- Provides an additional 2 Doors / 2 Wiegand Readers for Host Module
- Assign Read In & Read Out SIFER or third party OSDP RS-485 readers for each door via the Host Module
- UniBus connectivity to Host Module
- Reader options to control Doors, Lifts, Areas and User Logon
- Supports Wiegand card readers up to 88bits
- Reader outputs with individual self-resetting over current protection
- UniBus loop-through connectors
- LED Status & Fault Indicators
- Dedicated lock power input Heavy duty lock relays
- Reader Valid & Invalid Outputs
- Door reed & tongue sense inputs per door
- Door request to enter & exit inputs per door
- DOTL relay outputs per door
- Integriti "B" size footprint 200 x 94mm



UniBus Installation



Specifications Physical

PCB Size Code:	Integriti "B" size
PCB Size:	200(L) x 94(W) x 45(D) (mm)
Height:	20(D) (mm) (45mm with UniBus cable connected)
Installation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing)
Electrical	
Power Supply Input:	11V to 14VDC via host module
Current Consumption:	40mA idle
	110mA both lock relays on
	135mA both lock & DOTL relays on
NOTE: Current consumption does not device attached to the DOTL, Valid, Inv	include the current required by readers or other external devices such as locks, buzzers, lamps or an alid, RS-485 Reader and UniBus connections
Over Current Protection:	Reader +V connections. Protected with self-resetting PTC's
Contact Ratings	
Lock Relays:	5 Amps @ 30VDC
DOTL Relays:	1 Amp @ 30VDC (Door Open Too Long output)
Connections	
Lock 1 & 2:	Includes Lock+, Lock-, NO/COM/NC
Door 1 & 2:	Includes Reed, 2 x 0v, Tongue, REN, REX, DOTL contacts
Wiegand Reader 1 & 2:	Includes Valid, Invalid, 0V, Reader+, D1, D0, ARM
Lock Power:	Includes Lock+, Lock- connections from external PSU
UniBus Port:	3 x UniBus connections for loop-through and connection to host module
Power Considerations	
The UniBus host module supplies sta	atic device current to all connected UniBus devices.
Total current consumption is, therefo	pre the sum of all:
	- Static Current of all connected UniBus devices - Static Current of host module - Host module battery charging current - Card Readers and Ancillary devices connected to DOTL, Valid & Invalid connections
Lock Power Considerations	Lock power is supplied directly from an Integriti SMART PSU (Housed in the same enclosure) and is the sum of the maximum current required by all connected locking device hardware.
Compliance	
Electrical	۵ د خ
Environmental	RoHS

UniBus Devices are designed for installation within the same enclosure as the UniBus host module. A UniBus host can interface a maximum of six UniBus devices in any combination, provided they are all within the intended functionality of the host module

Ordering Options



996535PCB&K Integriti UniBus 2 Door Expander PCB & cable)



Connectivity

Accessories (Includes 270mm UniBus patch



Spare UniBus patch cables 996791SS - UniBus Patch Cable 150mm 9967915 - UniBus Patch Cable 220mm 996791L - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XL - UniBus Patch Cable 675mm

DATA SHEET UniBus 8 Zone Expander

DATA SHEET UniBus 8 Zone Expander

The UniBus 8 Zone Expander connects to an Integriti Security Controller (ISC) or an 8 Zone LAN Expander via the UniBus Port. It provides an additional 8 Zone Inputs that support all Integriti Zone Types including Multistate and Counter types along with extra detector power supply connections (DET+) to simplify device wiring.

The UniBus 8 Zone Expander is designed for installation within the same tamper-protected enclosure as its UniBus host module. The UniBus device is connected directly to the host module or another UniBus device via the UniBus patch cable supplied.

Host Module Compatibility

The UniBus 8 Zone Expander is compatible with the following UniBus Host Modules:

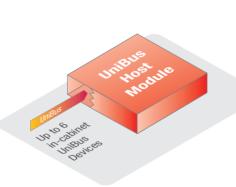
Integriti ISC Controller (Part. 996001 series) - Connect up to 2

Integriti 8 Zone RS-485 LAN Expander (Part. 996005PCB&K) - Connect up to 3



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

UniBus Installation



UniBus Devices are designed for installation within the same enclosure as the UniBus host module. A UniBus host can interface a maximum of six UniBus devices in any combination, provided they are all within the intended functionality of the host module

Power Considerations

Compliance

Electrical

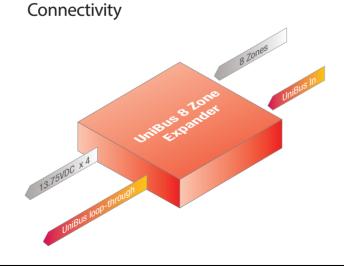
Environmental



996500PCR&K patch cable)

Features

- 8 Universal Zone Inputs
- Support for Multistate EOL circuits Support for counter type inputs
- Programmable de-bounce times
- DIP switch addressable first zone 1, 9, 17 or 25
- UniBus loop-through connectors
- 4 Way DET+ 13.75V outputs
- 2 LED status/fault indicators
- Surge protected inputs
- Over-The-Wire firmware upgradable
- Integriti "C" size footprint 94 x 94mm
- Can be installed above other "C" size $\mathsf{PCB}\mathsf{'s}^{**}$
- A Snap off strip is included to allow installation above Integriti "B" size PCB's** ** 35mm standoff kit required - Part Number 999009







Specifications

Physical

i nysicai		
PCB Size Code:	Integriti "C" size	
PCB Size:	94(L) x 94(W) (mm)	
PCB size including snap off strip:	105(L) x 94(W) (mm)	
Height:	15(D) (mm) (28mm with UniBus cable connected)	
Installation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing)	
Electrical		
Power Supply Input:	11V to 14V DC via host module	
Static Current Consumption:	75mA. (not including detector power)	
DET+:	Output Voltage 13.75V DC - sourced from host	
DET+ Output Current:	Limited to available current from host	
Connections		
Zone Inputs:	8	
DET+ Out:	4	
UniBus Port:	1	
UniBus Loop-through Port:	1	
Connection to Host Module:	Via 270mm UniBus patch lead (supplied)	

The UniBus host module supplies DET+ current and static device current to all connected UniBus devices.

- Total current consumption is, therefore the sum of all:
 - Static Current of all connected UniBus devices
 - Static Current of host module
 - Host module battery charging current
 - Ancillary devices connected to all DET+ connections
 - Ancillary devices connected to host module's RS-485 LAN+



Ordering Options



Integriti UniBus 8 Zone Input Expander PCB & Accessories (Includes 270mm UniBus



Spare UniBus patch cables 996791SS - UniBus Patch Cable 150mm 9967915 - UniBus Patch Cable 220mm 996791L - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XL - UniBus Patch Cable 675mm

DATA SHEET Integriti UniBus 8 Relay Auxiliary Expander

DATA SHEET Integriti UniBus 8 Relay Auxiliary Expander

The UniBus 8 Relay Auxiliary Expander provides 8 independent, high current normally open or normally closed relay outputs, offering a general purpose interface in applications such as warning devices (strobes, etc.), building automation and process control.

The UniBus 8 Relay Expander is designed for installation within the same tamper-protected enclosure as its UniBus host module. The UniBus device is connected directly to the host module or another UniBus device via the UniBus patch cable supplied.

Host Module Compatibility

The UniBus 8 Relay Expander is compatible with the following UniBus Host Modules:

Integriti ISC Controller (Part. 996001 series) - Connect up to 4

Integriti IAC Controller (Part. 996035PCB&K) - Connect up to 4**

Integriti 8 Zone RS-485 LAN Expander (Part. 996005PCB&K) - Connect up to 4

 Integriti ILAM RS-485 LAN Access Module (Part. 996018PCB&K) - Connect up to 2* * Relays will mimic the Lock & DOTL outputs on ILAM doors 1-8 (Aux 1~16)

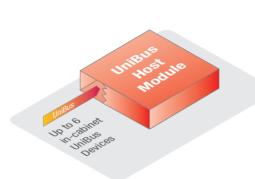
**Relays can be used for general purpose outputs when mapped to Aux 1~16 on IAC, and will mimic the Lock & DOTL outputs on doors 1-8 when mapped to Aux 17~32



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

.....

UniBus Installation



UniBus Devices are designed for installation within the same enclosure as the UniBus host module. A UniBus host can interface a maximum of six UniBus devices in any combination, provided they are all within the intended functionality of the host module

Connection to **Power Consi**

Compliance

Electrical

Environmental



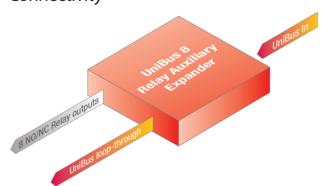
996515PCB&K patch cable)

Connectivity

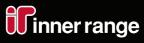
8 Universal Relay Outputs

Features

- Normally Open or Normally Closed Outputs per relay
- DIP switch addressable first Auxiliary (Relay) 1, 9, 17 or 25
- UniBus loop-through connectors
- 2 LED status/fault indicators
- Over-The-Wire firmware upgradable
- Integriti "C" size footprint 94 x 94mm Can be installed above other "C" size PCB's**
- A Snap off strip is included to allow installation above Integriti "B" size PCB's** ** 35mm standoff kit required - Part Number 999009







Specifications

Physical

PCB Size Code:	Integriti "C" size	
PCB Size:	94(L) x 94(W) (mm)	
PCB Size Including Snap Off Strip:	105(L) x 94(W) (mm)	
Height:	15(D) (mm) (28mm with UniBus cable connected)	
Installation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing)	
Electrical		
Power Supply Input:	11V to 14V DC via host module	
Static Current Consumption:	45mA PLUS 16mA per relay	
	Approximately 175mA when all Relays are on	
Contact Rating		
Maximum Switching Current:	1.0 Amp @ 24VDC. or 0.5 Amp @ 50VAC (Per Relay)	
	NOTE: While the relays have higher AC Voltage contact ratings, the	
	manufacturer does not recommend connection of AC voltages above	
	50VAC to the relay contact connections.	
Connections		
Relay Contacts:	8 x NO/NC outputs - 24 Connections	
UniBus Port:	1	
UniBus Loop-through Port:	1	
Connection to Host Module:	Via 270mm UniBus patch lead (supplied)	
Power Considerations		
The UniBus host module supplies DET+ c	urrent and static device current to all connected UniBus devices.	
Total current consumption is, therefore th	e sum of all:	

- Static Current of all connected UniBus devices

- Static Current of host module
- Host module battery charging current
- Ancillary devices connected to all DET+ connections
- Ancillary devices connected to host module's RS-485 LAN+



Ordering Options

Integriti UniBus 8 Relay Auxiliary Expander PCB & Accessories (Includes 270mm UniBus



Spare UniBus patch cables 996791SS - UniBus Patch Cable 150mm 9967915 - UniBus Patch Cable 220mm 996791L - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XL - UniBus Patch Cable 675mm

DATA SHEET INTEGRITIE UniBus 2 Port RS-232/RS-485 UART

DATA SHEET Integriti UniBus 2 Port RS-232/RS-485 UART

The UniBus 2 Port UART provides 2 high speed, software configurable, Serial Ports allowing connection of serial peripheral devices.

Up to 4 UniBus UART devices may be connected to an Integriti Security or Access Controller. DIP switch options allow each Port to be configured for RS-232 or RS-485 operation.

The UniBus 2 Port UART is designed for installation within the same tamper-protected enclosure as its UniBus host module. The UniBus device is connected directly to the host module or another UniBus device via the UniBus patch cable supplied.

Specific RS-232 cables are available separately for the connection of a computer, modem or other serial devices including the Inner Range GSM modem or Multipath IP STU.

Host Module Compatibility

The UniBus 2 Port UART is compatible with the following UniBus Host Modules: • Integriti ISC Controller (Part. 996001 series) - Connect up to 4 Integriti IAC Controller (Part. 996035PCB&K) - Connect up to 4

Aiphone GT Series Intercom Integration

Use the UniBus UART to interface to the Integriti - Aiphone GT Series DIN Rail Interface See page 66 for further details.

IIS (Kenwei) Intercom Integration

Use the UniBus UART to interface directly to the IIS (Kenwei) Apartment Series Intercoms RS-485 LAN for a powerful integrated solution.



	UniBus Device		UniBus Ho	ost Module	
	Compatibility Guide	ISC	IAC	8 Zone Expander	ILAM
	8 Zone Expander	2	0	3	0
evice	8 Relay Expander	4	4	4	2
	2 Door / 2 Reader Expander	0	3	0	3
JniBus Device	16 Floor Lift Interface	6	6	6	6
UniB	RS-232/RS-485 UART	4	4	0	0
_	Analogue Expander	4	0	6	0
	2 nd Network Interface Card	1	1	0	0

UniBus Installation



UniBus Devices are designed for installation within the same enclosure as the UniBus host module. A UniBus host can interface a maximum of six UniBus devices in any combination, provided they are all within the intended functionality of the host module

Power Considerations

Compliance

Electrical

Environmenta

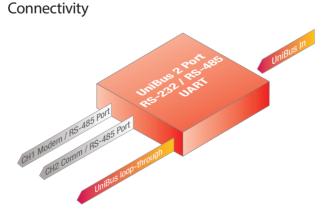


996520PCB&K Integriti UniBus 2 Port RS-232/RS-485 UART PCB & Accessories (Includes 270mm UniBus patch cable)

Features

- 2 Software configurable UART Ports Channel 1 - RS-232 Modem / RS-485 Port Channel 2 - RS-232 Comm / RS-485 Port
- DIP switch addressable module number 1, 2, 3 or 4
- DIP switch selectable CH1/CH2 mode, RS-232 or RS-485
- LED indication of CH1 & CH2 RX & TX activity
- LED UniBus status indicator
- 2 LED system status/fault indicators
- UniBus loop-through connectors
- Over-the-wire firmware upgradable Integriti "C" size footprint 94 x 94mm
- Can be installed above other "C" size PCB's**
- A Snap off strip is included to allow installation above Integriti "B" size PCB's**

** 35mm standoff kit required - Part Number 999009



Finner range



Ordering Options



Specifications

Physical

PCB Size Code:	Integriti "C" size	
PCB Size:	94(L) x 94(W) (mm)	
PCB Size Including Snap Off Strip:	105(L) x 94(W) (mm)	
Height:	15(D)(mm) (28mm with UniBus cable connected)	
Installation Environment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing))	
Electrical		
Power Supply Input:	11V to 14V DC via host module	
Static Current Consumption:	40mA PLUS 5mA per active port	
Connections		
Port 1:	CH1 Modem Port or RS-485	
Port 2:	CH2 Comm Port or RS-485	
UniBus Loop-through Port:	1	
Connection to Host Module:	Via 270mm UniBus patch lead (supplied)	
Communications Formats		
Port 1 (Modem):	Supports any Comms Task format that requires UART Serial Port communications, including all "Modem" Comms Task formats.	
Port 2 (Comm):	Supports the Comms Task formats that utilize TXD/RXD and CTS/ RTS for UART Serial Port communications.	
	"E Modem" and any formats that require CD, DSR, DTR or RI signals are not supported. Use Port 1 for these formats.	

The UniBus host module supplies DET+ current and static device current to all connected UniBus devices. Total current consumption is, therefore the sum of all:

- Static Current of all connected UniBus devices

- Static Current of host module
- Host module battery charging current
- Ancillary devices connected to all DET+ connections
- Ancillary devices connected to host module's RS-485 LAN+





Spare UniBus patch cables 996791SS - UniBus Patch Cable 150mm 9967915 - UniBus Patch Cable 220mm 9967911 - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XL - UniBus Patch Cable 675mm

Serial Port Patch Cables

993009 - Computer interface cable(DB9) 993026 - Serial Printer interface cable(DB25) 993027 - Modem interface cable(DB25) 993035 - Securitel interface cable(Flying leads) 995009 - Internal PC Interface cable kit.

Installed inside the cabinet to the DB9 knockout, to provide an external DB9 serial connection.

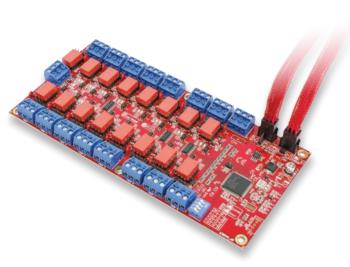
DATA SHEET **Integriti** UniBus Lift Interface (Button Feedback)

DATA SHEET **INTEGRITI** UniBus Lift Interface (Button Feedback)

The UniBus 16-Floor Lift Interface device provides an efficient integration between the Integriti Security System and a lift system. This facilitates managed and secure floor access for users within multi-story buildings and apartment blocks. The UniBus Lift Interface device utilises a low-level button feedback interface between Integriti and the lift system. It incorporates input conditioning and switching to provide the isolation required between the two systems.

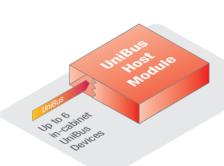
Using an Integriti UniBus cable, the device connects directly to the Integriti host module or via another UniBus device.

Up to 6 UniBus 16-Floor Lift Interface devices can be connected to a single host module to provide access control for a single lift car servicing up to 96 floors. (Multiple lift cars require multiple host modules)



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

UniBus Installation



UniBus Devices are designed for installation within the same enclosure

as the UniBus host module. A UniBus host can interface a maximum of

six UniBus devices in any combination, provided they are all within the

intended functionality of the host module

Physical PCB Size Code:

PCB Size: Height: Installation Enviro Electrical

Power Supply Inp Static Current Cor

Contact Ratin

Maximum Switch

Connections

Relay Contacts: Override Input: Button Sense Inpu UniBus Port: UniBus Loop-Thro Connection to Ho

Compliance

Electrical

Environmental

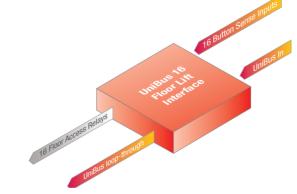
Ordering Options



996540PCB&K Integriti UniBus 16 Floor Lift

Features

- Low level with button feedback UniBus connectivity
- Compatible with a range of Integriti host modules
- Manage 16 floors per device
- Connect up to 6 devices per Integriti host module
- Wide range of button input voltages
- Button sense input per floor
- Override input to allow free access mode
- · Isolation between lift and Integriti system • Firmware upgrades over-the-wire





Connectivity



Specifications

	Integriti "B" size
	200(L) × 94(W) (mm)
	15(D) (mm) (28mm with UniBus cable connected)
onment:	0°C - 70°C @15% - 90% Relative humidity (non-condensing)
put:	11V to 14V DC via host module
onsumption:	55mA PLUS 16mA per relay. Approximately 310mA
	when all relays are on
ng	
hing Current:	500mA @ 16 – 48V DC/AC RMS
	200mA @ 60 - 110V DC/AC RMS (30W / 62.5VA) 50VAC
	16 x NC outputs
	1
outs:	16
	1
rough Port:	1
ost Module:	Via 270mm UniBus patch lead (supplied)









Spare UniBus patch cables 996791SS - UniBus Patch Cable 150mm 9967915 - UniBus Patch Cable 220mm 996791L - UniBus Patch Cable 270mm 996791LL - UniBus Patch Cable 475mm 996791XL - UniBus Patch Cable 675mm



DATA SHEET **Integriti** EliteX OLED Keypad

Integriti PrismaX Colour Graphic Keypad

elite

The EliteX OLED keypad is elegantly designed and features a clear and easy to read OLED display. Users can use the keypad to perform typical operations on the Integriti system. This includes control of security areas, door access, event activity review and controlling the state of outputs.

Users PIN numbers can also be changed directly from the keypad. The OLED display shows plain text navigation through operations and alarms, events and items are presented by name.

The keypad's 8 indicator LEDs can also display the real-time status of the security system.

For the Installer, EliteX can be used to program the entire Integriti system. (Macros excluded). This allows the installer to make guick and efficient changes as needed without need to access the Integriti software. The EliteX supports 12 Languages.

SIFER Reader option for EliteX.

A plug-on SIFER Reader kit is available for the EliteX Keypad. With this option fitted the keypad can be used as a reader for access control on doors or for high security "Card & PIN" dual credential authentication for login access to the Keypads menus.

Controlle

Features

- Clear and easy to read 2-Line OLED display
- Programmable backlight brightness suitable for bright or low-light environments
- Slimline surface mount design
- Stylish design and neutral colours will look great in any environment
- Design style compliments the PrismaX Keypad (colour screen model)
- Backlit rubberised keypad provides a user-friendly tactile feel
- Eight LEDs provide area status, door functions, alarms and other conditions via programming options
- Instant help text available anytime, at the press of a key
- Multilingual firmware as standard (12 languages)
- Four arrow keys provide guick and convenient access to menu options
- Zone inputs and auxiliary outputs provided for connection of local I/O devices
- Programmable panic key and duress option
- Built-in module locater buzzer
- Tamper monitored housing
- Compatible with Integriti, Inception & Concept 4000 Systems

Features with SIFER Reader kit fitted

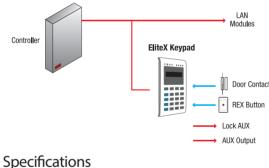
- Support for all SIFER credentials
- Support for 13.56Mhz cards(CSN Only)
- Support for Card access control

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- Support for Card & PIN access control
- Support for Card only terminal login
- Support for Card & PIN terminal login

Connectivity

The EliteX Keypad is connected directly to the Integriti RS-485 LAN. Up to 99 Keypads may be installed per Integriti Controller.



Physical Housing Dimensions:

Installation Environment:	
Electrical	
Input Voltage:	11
Operational Current:	14
Operating Current with SIFER PCB:	46
Auxiliary Open Collector Output Current:	18
Display & Indicator Brightness	

1V - 14V DC 4.4mA (Back-light & LEDS off), 42mA (Back-light & LEDS max brightness) 6mA (Back-light & LEDS off), 186mA (Peak, Back-light & LEDS max brightness 8VDC 500mA maximum each (PTC protected)

Display/ Keypad:

- ED Indicators:
- Indicators & I/O's LED Indicators:
- Aux Outputs (Open collector):
- Universal I/O's: Compliance



Finner range

Environmental

Electrical







994721PCB&K Plug-on SIFER Reader kit to suit EliteX or PrismaX Keypads

999059X Security shroud to suit PrismaX/EliteX Keypad

100

- 50°C @ 15% to 85% relative humidity (non-condensing)

995400

Variable brightness via programming (Can be turned off) Variable brightness via programming

152(H) x 90(W) x 18(D) (mm)

2 (Input mode is compatible with original Elite, or EOL/Multi-state compatible)

 \otimes CE A RoHS

- press of a key Programmable panic key and duress option
- Compatible with Integriti Systems only

Features with SIFER Reader board fitted

- Support for all SIFER credentials
- Support for 13.56Mhz cards(CSN Only)
- Support for Card access control
- Support for Card & PIN access control
- Support for Card only terminal login
- Support for Card & PIN terminal login



Sharing the same attractive design style as the EliteX, the PrismaX Keypad boasts a full-colour LCD display. End-users will delight in using the PrismaX keypad, with large clear text and icon-driven menus control of the Integriti system is made simple.

Just some of the functions supported include monitoring and acknowledging alarms and events, arming/disarming, unlocking/locking doors, controlling automation functions and isolating zones. Eight dual colour status LEDs can be used to display the armed/disarmed state of areas or for other intruder, access control or automation purposes. An in-built temperature sensor displays the room temperature and can also be integrated into the system for building automation control.

SIFER Reader option for PrismaX

A plug-on SIFER Reader kit is available for the PrismaX Keypad. With this option fitted the keypad can be used as a reader for access control on doors or for high security "Card & PIN" dual credential authentication for login access to the Keypads menus.

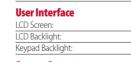
Please note: The PrismaX Keypad is designed as an end user interface for the Integriti system and as such only the end user related menus are supported. Where access to installation and commissioning menus is required the EliteX Keypad is recommended.

Connectivity

Controller

Features

- Elegant slimline surface mount design
- Full colour LCD backlit screen
- Large easy to read text
- Four arrow keys provide quick and convenient access to options in the graphic interface menu
- Tamper monitored housing
- Light sensitive auto-dimming brightness for LCD, Keypad and LED's
- Backlit rubberised keypad provides a user-friendly tactile feel
- Local temperature display
- 8 LED indicators for Area status display
- Instant help text available anytime, at the



Operating Current with SIFER PCB:

Specifications

Housing Dimensions

Operational Current

Installation Environment:

Physical

Electrical

Input Voltage:

Indicators

LED Indicators

Speaker:

System Outputs ED Indicators: Beeper/Speaker:

Compliance

Electrical

Environmental







Ordering Options

The PrismaX Keypad is connected directly to the Integriti RS-485 LAN. Up to 99 Keypads may be installed per Integriti Controller. LAN Modules 088 **BBBB** C 885 PrismaX Keypad 996400 Integriti PrismaX Keypad 994721PCB&K Plug-on SIFER Reader kit to suit PrismaX or EliteX Keypads 999059X Security shroud to suit 10000 PrismaX/EliteX Kevpad 152(H) x 90(W) x 18(D) (mm) 0° - 50°C @ 15% to 85% relative humidity (non-condensing) 11V – 14V DC Auto current limiting typically less than 100mA @12V (270mA Peak) Auto current limiting typically less than 100mA @12V (300mA Peak 8-bit digital sound Array of 8, Auto-dimming bi-colour LED 320 x 240 (QVGA) colour LCD

Variable brightness via programming, Auto-dimming (Can be turned off) Variable brightness via programming, Auto-dimming (Can be turned off)

Ø CE **RoHS**

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DATA SHEET Integriti Weatherproof Keypad

DATA SHEET **INTEGRITI** Paradox RF Expander Module

The Weatherproof Keypad sports an incredibly robust design that is dust proof and highly water resistant. Rated to IP65, the solid aluminium case is stylish and vandal resistant.

Perfect for gate or door access control where the Keypad will be exposed to the environment. In addition to the single door/gate access control, users may also separately arm/disarm their alarm system or just their tenancy. Visible feedback of "valid/invalid PIN" and "area armed/disarmed status" is provided through the I FDs.

This wholly Inner Range solution does not require special user configuration (unlike previous solutions using third party products). All users have access to PIN code functionality, similar to that of a normal EliteX or PrismaX Keypad, but restricted to the connected door/area associated with the Keypad or user.



The Weatherproof Keypad is connected to the Controller RS-485 LAN

through the supplied Reader Module. (Check memory allocations for

module quantity with Concept Systems)

Features

Keypad

- Attractive, rugged case is highly vandal resistant
- Completely dust proof and highly water resistant IP65 rated case with no moving parts
- Control one door per keypad
- Control a security area associated with the door or user's special area
- Piezo effect push buttons with audible feedback
- Fasy to install
- Displays login status and area status with "Code" and "Armed" LEDs
- Keypad lockout feature if >3 or 10 incorrect logins in a row
- Extendable flying leads provide option to house Reader Module in more sheltered location.

120(L) x 65(W) x 27(D) (mm)

95(L) x 95(W) (mm)

Standby: 40mA

Logged on: 45 to 55mA

1 (used for keypad)

With lock relay active: 72m

All Auxiliaries active: 180mA

500mA (Keypad/Reader power)

1 (Typically used for door lock)

-30° to +60° Celsius and 0 to 95% relative humidity (non-condensing). IP65 Moisture & Dust rating

Reader Module PCB

- Provides reed and tongue sense monitoring
- Request to Enter (REN) and Request to Exit (REX) inputs provided
- On-board lock relay
- Fuse protection of keypad power

Specifications

Keypad Installation Environment:

PCB Installation Environment:

Physical Keypad Dimensions

PCB Dimensions:

Input Voltage to PCB

Operational Current

Fuse Protection:

Inputs Zone Inputs

Reader Ports

Outputs

Outputs (Open Collector

Electrical

Controller	Modified Single Door Reader Module PCB	Card Reader Tongue Sense & Reed Inputs
		> Lock Relay
-		Combined Valid / Invalid / DOTL
		Weatherproof Terminal

Ordering Options



995010 Neatherproof Keypad (short form kit containing keypad and reader module PCB. Requires external power supply)

Neatherproof Keypad PCB (supplied with PCB only)

The Inner Range - Paradox RF module is a cost-effective wireless RF solution that allows Paradox Magellan Wireless PIR's, reed switches, smoke detectors and remote control fobs to function on the Integriti or Concept Systems. Wireless functionality is added to the Inner Range Controller with the inclusion of Paradox Magellan wireless devices, with each Paradox Expander Module supporting 32 wireless detection zones (PIR's, reed switches and smoke detectors). The interface supports monitoring low battery alarms for all wireless devices.

The Paradox REM2 and REM3 remote control fobs provide bi-directional audible and visual feedback when arming or disarming the system and when controlling output auxiliaries. In addition to this, the REM 2 & 3 remotes feature an information button which can be used to indicate the current status of the security area.

All fobs feature buttons which can be programmed to provide different actions and four or six digit wireless PIN verification is also provided when using the REM3 remote control unit.

Paradox wireless devices:

- Remote Controls & Fobs
- Motion Detectors
- Wireless Door Contacts (Reed Switches)

Features

- The Paradox RF Expander connects directly to the Integriti or Concept RS-485LAN
- Each expander will provide up to 32 wireless detection zones
- Cost effective RF Wireless Solution
- Fully compatible with selected Paradox Magellan wireless devices. Detectors, Door Contacts, RF Fobs and Smoke Detectors
- · Bi-directional wireless audible & visual feedback on selected RF Fobs for area arming/disarming and output control
- Wireless PIN entry using selected models of RF Fobs
- Low Battery supervision & reporting from all wireless devices
- Wireless panic input

Specifications

Phy

Cor

Reg

ysical	
losure Dimensions:	150(L) x 166(W) x 32(D) (mm) (Not including antennae)
allation Environment:	0° - 50°C @ 15% to 85% Relative humidity (non-condensin
ectrical	
ut Voltage:	PCB 11-14VDC (operational current 65mA)
ne Inputs:	32 wireless zones
/ Fobs:	1 per user in Integriti Limit of 100 Fobs in Concept depend
stem Inputs	
-	Transmitter Low Battery, Transmitter Poll Fail and RF Jam, C
	LAN Fail and Module Low Battery, RF Frequency Band RF F
mpatibility	
quires Concept 4000 Control modu npatibility.	le firmware V7.61 or newer. If Insight software is being used Version 4.
Ś:	PMD1P, PMD75, PMD85

PIR's:	PMD1P, PMD75, PMD85		
Wireless Door Contacts:	DCT10, DCTXP2, DCT2		
Remote Control FOBS:	REM1, REM15, REM2, REM3		
Asset Protector:	GS250		
Panic Pendant:	REM101		
Smoke Detectors:	SD738		

i.e.: Door Reed, REX, REN, Tongue Sense and Arm button)

0° - 50°C @ 15% to 85% Relative humidity (non-condensing)

5 (May have predefined functions depending on programming options selected,

5 (3 reserved for Valid/Invalid, Area Armed/Disarmed indication, keypad beeper

11-14VDC (Typically from separate power supply)

Encle Ele Inpu Zone Key Sys



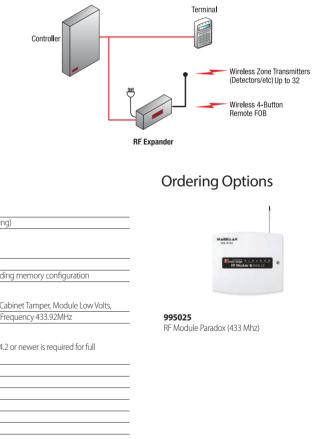
995010PCB&K





Connectivity

The RF expander is connected directly to the Controller RS-485 LAN. (Check memory allocations for module quantity with Concept Systems)





DATA SHEET Integriti Inovonics RF Module

DATA SHEET **INTEGRITI** Aiphone GT Series - Integriti Interface

The Inner Range - Inovonics™ RF Expander is an RS-485 LAN based module which provides an interface for Inovonics[™] Echostream wireless security transmitters such as detectors, universal transmitters and user pendants.

Up to 32 detectors can be monitored by each Module. User pendant transmissions can be received via any RF Expander Module in the system.

The range of an RF system can be expanded by using Inovonics[™] Repeater units which allow RF signals to be forwarded onto the Expander Module.

User pendants and security transmitters can be easily registered into the Integriti system.



Features

- The Inovonics RF Expander connects directly to the Integriti or Inception RS-485 LAN
- Each Expander will provide up to 32 wireless detection zones
- Low Battery supervision & reporting from all wireless devices
- Frequency selectable to suit AU/NZ RF bands
- PCB only kit option available (for Europe only)
- World-renowned high quality RF wireless solution
- Fully compatible with Inovonics security range of transmitter devices including:
 - Body Worn Pendant Transmitters
 - Fixed Position Hold Up Pendant Transmitters
 - Universal Transmitters Reed Switches/Contacts
 - Smoke Detectors
 - Glassbreak Detectors
 - PIR Motion Detectors
 - High Power Repeaters
- See the Inovonics Security Product Guide Australia / New Zealand for further details

Specifications

Physical 165(L) x 92(W) x 28(D) (mm) Enclosure Dimensions Installation Environment 0° - 50°C @ 15% to 85% Relative humidity (non-condensing) Electrical Input Voltage PCB 11.5-14VDC (operational current 115mA) Zone Inputs: 32 wireless zones 1 per user, only limited by user quantity available in controller Key Fobs: Inputs Transmitter Low Battery, Transmitter Poll Fail and RF Jam, Cabinet Tamper, Module Low Volts, LAN Fail and Module Low Battery Compatibility Compatible with Integriti ISC/ IAC Controllers and Inception Controllers **Frequency Bands** 915-928 MHz Australia: New Zealand: 921-928 MHz PCB Version only (For field installation into Inovonics EE4000 868-870 MHz Euro Receivers) Europe:

Wireless Zone Transmitters (Detectors/etc) Up to 32 Vireless 4-Button mote FOB RF Expande

The RF expander is connected directly to the Controller RS-485 LAN.

Connectivity

Ordering Options



996008 onics RF Module (AU & NZ Only)

996008EUPCB&K novonics Interface Module (PCB&Kit for Europe Only) The Aiphone - Integriti Interface module is a small (2-Pole) DIN rail mount device which allows Integriti to receive events from Aiphone GT series intercom systems.

The module provides the communication link between the Aiphone 2 wire bus and the Integriti RS-485 UART port and allows Integriti to monitor events from lobby entrance and apartment based intercom stations.

Where visitor access is granted by way of pressing the unlock button on the apartment intercom station. Integriti can listen to that request from the Aiphone system and subsequently unlock a door and/or provide the visitor with lift access to the appropriate floor.

Features

- Provides Integration between Aiphone GT series intercoms and the Integriti Access Control system
- Allows Integriti to unlock doors and/or provide lift/floor access for visitors based on intercom events
- Support for up to 250 apartment intercom stations
- Support for up to 4 lift cars
- Optically isolated communications
- Small DIN rail mount 2-Pole enclosure
- Can be installed alongside the DIN rail mounted Aiphone Intercom system
- Compatible with Aiphone GT series 2-wire intercom systems

Specifications

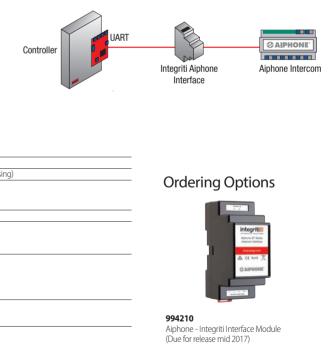
Physical	
Enclosure Dimensions:	88(L) x 37(W) x59(D) (mm) (2-Pole DIN)
DIN Rail Compatibility:	35mm DIN rail
Installation Environment:	0° - 50°C @ 15% to 85% Relative humidity (non-condensi
Electrical	
Input Voltage Integriti:	Integriti UART RS-485 Port 11.5-14VDC, 7mA
Input Voltage Aiphone:	Aiphone 2-wire LAN 24VDC, 3.2mA
Communications	
Integriti UART Configuration:	9600 Baud, 8 data bits, 1 Stop bit, Odd parity
Compatibility	
Electrical	🖄 (E
Environmental	RoHS 🕱





Connectivity

The Integriti Aiphone Interface is connected to the Integriti Unibus UART RS-485 port and the Aiphone 2-wire Bus





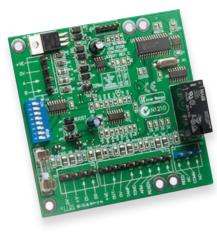
DATA SHEET **Integrit** Single Door Access Module

DATA SHEET **Integriti** Analogue Module

Designed as a cost-effective and space-saving single door module, this device is perfect for organisations that only require a small number of access control doors or where installation space is a premium.

The Single Door Access Module supports one door, one Wiegand card reader and the required inputs and outputs for the control and monitoring of a single door. A single auxiliary output is provided for use as a general purpose output or to control reader LEDs and/or buzzers, indicate "Door Open Too Long" (DOTL), or used for "Valid/Invalid" feedback.

Configuration options allow for a broad range of card reader technologies and support is provided for multiple card reader formats.



Features

- Supports magnetic swipe or Wiegand card readers without the need for an additional interface
- Standard version supports offline database of up to 31 backup cards
- Provides reed and tongue sense monitoring
- Request to Enter (REN), Request to Exit (REX) & Arm inputs provided

95(L) x 95(W) (mm)

15mA

500mA

0°C - 50°C @15 - 85% Relative humidity (non-condensing)

i.e.: Door Reed, REX/REN, Tongue Sense and Arm button)

Relay 1 (Typically used for door locks)

1 (Typically used for Valid/Invalid indication)

25mA with lock relay active. (NOT including Reader or Auxiliary Out current)

4 (May have predefined functions depending on programming options selected,

11-14VDC (Typically from separate power supply)

- Door Open Too Long (DOTL), valid and invalid output
- On-board lock relay

Specifications

Installation Environment:

Input Voltage to PCB:

Operational Current

Fuse Protection

Connections

Zone Inputs:

Reader Ports

Auxiliary Outputs (open collector):

Outputs:

Physical PCB Dimensions

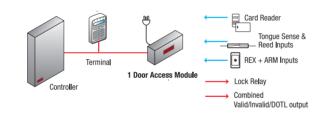
Electrical

Max

Fuse protection of reader power

Connectivity

The 1 Door Access Module is connected directly to the Controller RS-485 LAN. (Check memory allocations for module quantity with Concept Systems)



Ordering Options



995011PCB&K 1 Door Access Module The Analogue Module provides the capability to monitor, report and action on analogue values within an Integriti or Concept system. This module can be programmed to operate an auxiliary when an analogue level from one or more of its independent analogue inputs exceeds or goes below a pre-programmed trigger point. Analogue levels can be monitored and controlled in scaled units through the Integriti software or at any EliteX Terminal.

The Analogue Module allows the programmer a variety of selectable mode settings and levels with which to configure the system to the particular application. The trigger point, output auxiliary, tamper levels and hysteresis values may be individually selected for each input.

The Analogue Modules requires firmware 5.20 or later for Integriti compatibility.

Features

- Four independent analogue inputs, each with its own programmable 'trigger point'
- 0-5V or 4-20mA types available 8-bit resolution, 1% accuracy
- Compatible with the Serial Temperature Sensor (995089)
- LAN voltage monitoring
- Cabinet tamper input Four output auxiliaries
- Two general purpose digital inputs (no EOL resistors)

Specifications Physical

Cabinet Dimensions:	305(L) x 140(W) x /2(D) (mm)
PCB Dimensions:	140(L) x 95(W) (mm)
Installation Environment:	0°C - 50°C @15 - 85% Relative humidity
	(non-condensing)
Cabinet Dimensions (Temp Sensor):	116(L) x 77(W) x 14(D) (mm)
Electrical	
Input Voltage to PCB:	11-14VDC
Operational Current:	~30mA
Input Voltage to PCB (Temp Sensor):	5VDC (1mA) from host Analogue Module
•	4 Analogue inputs, 2 general purpose zone Inputs
Inputs Zone Inputs: Input Range: Voltage Option:	4 Analogue inputs, 2 general purpose zone Inputs 0-5VDC uni-polar referenced to 0V input terminal
Zone Inputs: Input Range: Voltage Option:	0 1 1 0 1 1 1
Zone Inputs: Input Range: Voltage Option: Current Loop Option:	0-SVDC uni-polar referenced to 0V input terminal 4-20mA DC polarised, input termination
Zone Inputs: Input Range: Voltage Option: Current Loop Option: Input Impedance:	0-5VDC uni-polar referenced to 0V input terminal 4-20mA DC polarised, input termination resistor selectable 10kOhm set by input termination resistor.
Zone Inputs:	0-5VDC uni-polar referenced to 0V input terminal 4-20mA DC polarised, input termination resistor selectable 10kOhm set by input termination resistor. (ADC Input Impedance~10MOhm)
Zone Inputs: Input Range: Voltage Option: Current Loop Option: Input Impedance: ADC Resolution:	0-5VDC uni-polar referenced to 0V input terminal 4-20mA DC polarised, input termination resistor selectable 10kOhm set by input termination resistor. (ADC Input Impedance~10MOhm) 8bit

)...140(M/)...72(D) (

Outputs

Outputs (open collector):	4
Max. Switchable Current per output:	200mA
Max. Combined Output Current:	To be included within the constraints of the power supply source

Sensor Specification

Temperature Range (Temp Sensor):

0°C - 125°C or -55°C - +70°C Resolution +/- 0.5°C

Accuracy

Temperature Sensor

0°C - 70°C +/- 0.5°C, 70°C - 85°C +/- 1.0°C, 85°C - 125°C +/- 2.0°C







Connectivity

The Analogue Module is connected directly to the Integriti/Concept RS-485 LAN. (Check memory allocations for module quantity with Concept Systems).

Ordering Options

995088

Analogue Module (Voltage Mode) in metal enclosure 9950880

Analogue Module (Current Mode) in metal enclosure

995088PCB&K

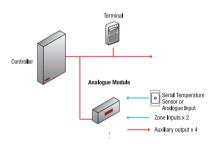
Analogue Module (Voltage Mode. Short form kit)

Serial Temperature Sensor

The sensor records the temperature and converts it to an 8-bit digital value. The digital data is then sent to the Analogue Module to be processed. Each Serial Temperature Sensor is supplied with a wall mounting kit and requires no further calibration.

995089

Serial Temperature Sensor









DATA SHEET INTEGRITI III LAN Over Ethernet Module (CLOE)

DATA SHEET **INTEGRITI Fibre Modems**

The LAN over Ethernet Interface (CLOE) provides a convenient interface for the Integriti or Concept RS-485 LAN to be distributed over standard TCP/IP Ethernet networks.

Ethernet connectivity allows the RS-485 LAN to operate over an IP network architecture including 802.3i (10baseT) and 802.3U (100baseT) switching and routing equipment. Wireless communications can also be achieved using a wireless router and Ethernet / 802.11 point to point RF solutions.

CLOE provides the full flexibility of Ethernet networks while maintaining the high security and scale of the standard RS-485 LAN architecture.

The CLOE system supports the TCP/IP protocol with all data encrypted using 128 bit AES encryption. Security is monitored in all RS-485 segments of the LAN providing alarms for network outages or module substitution conditions.

Every CLOE module can be assigned as a master or a slave via initial setup options and the master unit is configured with a static IP address while the slave units support static or dynamic addressing. The use of Ethernet networks also provides the added benefit of electrical isolation between RS-485 LAN segments.

Features

- Compatible with Integriti, Inception or Concept 4000 RS-485 LAN
- Transmit the RS-485 LAN over Ethernet Networks
- Convert Standard RS-485 LAN Modules into Ethernet LAN Modules

95(L) x 95(W) (mm

Typical: ~65 mA Max: 110mA

10baseT / 100baseT (802 3i / 802 3L)

(11-14VDC)

RJ45

0°C-50°C @ 15% to 85% Relative humidity (non-condensing)

- Serial communication speeds of up to 19200 baud
- Extend the Integriti, Inception or Concept 4000 LAN distance
- Use wireless IP technologies to save wiring costs
- Use existing IP Networks to save wiring time $\& \operatorname{costs}$
- Deploy single Control Modules across multiple sites
- Provide electrical isolation between RS-485 LAN segments
- AES 128 bit encryption

Specifications

Installation Environment

Input Voltage to PCB:

Operational Current

Ethernet Connector

Ethernet LAN:

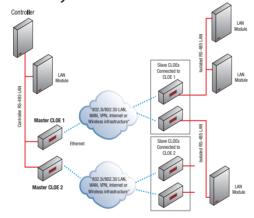
Physical

Electrical

PCB Dimensions:



Connectivity



Ordering Options



995093 LAN Over Ethernet Module The Inner Range Fibre Modern provides two separate, optically isolated ports to the Integriti, Inception or Concept system LAN. A set of Fibre Moderns is ideal for applications where modules are separated in different buildings and/or are separated by large distances.

In terms of an Integriti, Inception or Concept system, Fibre Modem links boost maximum LAN distance while providing immunity to earth loops, induced electrical noise and propagation of pulses from lightning strikes by virtue of the optical isolation.

The modems have two fibre ports which enable sets of Fibre Modems to be arranged in 'branch' or 'loop' configurations. Each fibre port utilises a pair of fibres per link to provide full-duplex communication. Up to 5 Fibre Modems can be connected in series.

Both Single Mode and Multimode versions of the Fibre Modem are available.

Features

- Multimode Fibre Modems extend Controller LAN up to 3Km
- Single Mode Fibre Modems extend Controller LAN up to 13Km
- Electrical isolation from the remote LAN
- Fibre links immune to earth loops and induced noise
- Immune to propagation of electrical pulses due to lightning
- Supports loop and branch ("Y") configurations
- Redundant LAN path when Fibre Modems used in 'loop' configuration
- Loop Fault' and 'Branch Fault' auxiliary outputs

Specifications

Physical Enclosure Dimensions 238(L) x 118(W) x 74(D) (mm) 96(L) x 96(W) (mm) Note: Fibre Connector heads protrud PCB Dimensions: nstallation Environment 0° - 50°C @ 15% to 85% Relative humidity (non-conden Type ST. 62.5/125 820nm multimode cable (Multimode) Fibre Optic Connections: Type SC. 9/125 1310nm single mode cable (Single Mode) Electrical Input Voltage to PCB: 11-14VDC (From LAN or separate battery-backed external power supply) Operational Current: Min.: 20mA (idle) Max.: 120mA **Optical** Tx Optical Power -12dBm (typical) Rx Optical Power: -24dBm (minimum for logic operation

Cable Distance (Multimode):	3km
Max. Modem to Modem Optical Cable Distance (Single Mode):	13km

Note: Single Mode Fibre Modern (995087) is supplied in the same plastic enclosure as the Multimode Fibre Modern (995081). There is also provision to mount Fibre Modern PCBs in the Low Profile Enclosures along with Control Module and Expander Module PCBs



69





Controller Various LAN Modules Various Various Fibre Modem 1 Fibre Modem 1 Fibre Modem 2 Various KaN Modules Various Fibre Modem 3 Various KaN Modules Various Various

Ordering Options

de 15mm from PCB	
sing)	

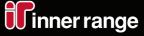




995081 Multimode Fibre Modem



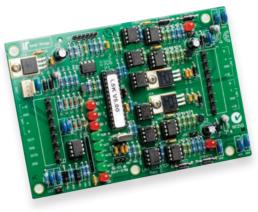
995087 Single Mode Fibre Modem



DATA SHEET

The LAN Isolator affords an Integriti, Inception or Concept system with optical isolation of RS-485 LAN wiring. It features 2 optically isolated sections (branches) which can be combined to work in an optional LAN 'loop' mode. The elimination of electrical connection between LAN sections serves as a means to break earth loops as well as extending the length of the LAN. Each LAN Isolator amplifies the signal and provides an additional 1500m of LAN distance.

In addition to this, the LAN Isolator monitors its LAN sections and can isolate sections of the LAN where problems are discovered. Also provided are outputs to indicate the status of the LAN allowing LAN section status and alarms to be reported as required.



Features

- 5kV isolation between LAN sections
- Can help eliminate earth loops in the LAN
- Improved anti-surge protection
- Improved signal to noise ratio over longer cable runs
- Two downlink ports on each unit allow monitored 'Loop' wiring or two separate downlink 'Branches'
- Supports loop and branch ("Y") configurations
- Protects sections of the LAN from faults or tampering in other sections
 'Loop Fail' and 'Branch Isolated' alarm outputs can be wired into any

305(L) x 140(W) x 72(D) (mm

'Loop Fail' and 'Branch Isolated'

0° – 50°C @ 15% to 85% Relative humidity (non-condensing)

LAN1 section: 28mA, LAN2 or LAN3 section: 15mA

LAN1 section: 65mA, LAN2 or LAN3 section: 30mA LAN1 - LAN2: 5kV, LAN1 - LAN3: 5kV

11-14VDC (From LAN or separate battery backed external power supply)

140(L) x 92(W) (mm)

standard zone input

Specifications

Physical Cabinet Dimensions:

Electrical Input Voltage to PCB:

Isolation:

Alarm Outputs

PCB Dimensions:

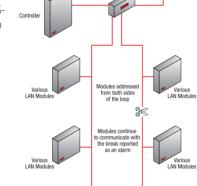
Installation Environment:

Operational Current (Standby): Operational Current (Busy):

• Plastic enclosure supports base and cover tamper switches

Connectivity

The LAN Isolator is connected directly to the Controller RS-485 LAN. The configuration shown is loop mode, it can also be deployed as 2 separated branches.



Ordering Options



995080 LAN Isolator in metal enclosure



995080PCB&K LAN Isolator short form kit

Multipath-IP







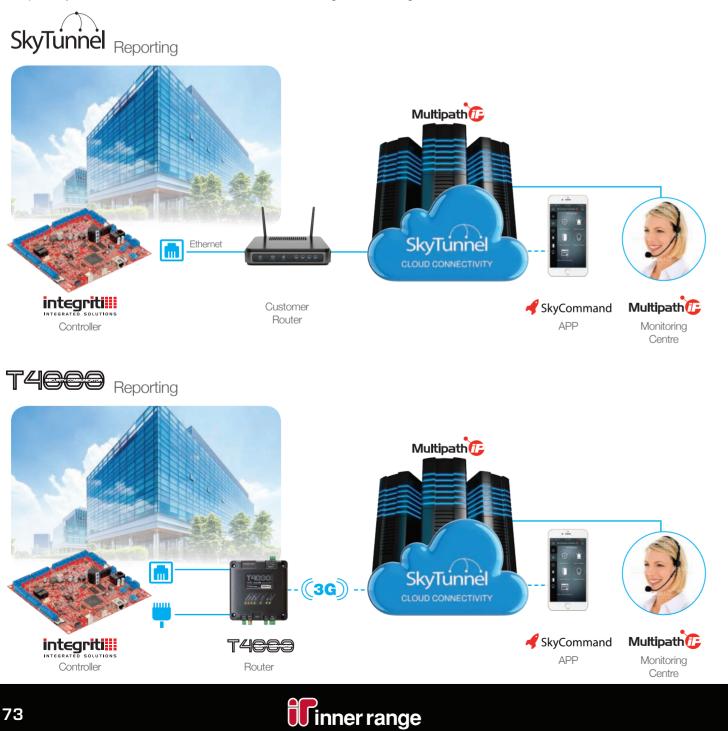
Multipath *IP* Alarm Monitoring

Multipath-IP is a state of the art multiple path IP alarm transmission system designed for low-cost monitoring through to high-security applications. Multipath-IP is a suite of products ranging from a variety of field hardware devices installed on the customer's premises to dedicated hardware systems installed within a monitoring station. The Multipath-IP service is available throughout Australia and New Zealand. The service will also be made available in additional regions in future.

Multipath-IP utilises leading edge internet protocol (IP) based technologies, combined with traditional alarm reporting systems to deliver critical alarm events to the monitoring centre via a secure, reliable and lightning-fast system.

High-security monitoring is achieved using a polled communication system where field hardware modules (STUs) communicate with the monitoring control room at intervals as frequent as every 10 secs. If these polls fail to be delivered within the allocated time, Multipath-IP is an agile solution which will attempt to re-establish the connection to the monitoring station using an alternative path and one of several alternative Telco providers. If a failed connection cannot be reestablished within a pre-determined time then an alarm is raised within the monitoring station.

Multipath-IP supports most existing alarm systems and is an ideal upgrade from traditional dial-up systems and the perfect replacement for outdated technologies such as direct line or Securitel. Installation of equipment into the customer's premises is a simple process with no ongoing programming required. Multipath-IP is independently certified to Australian Standard AS2201.5 class 5 which is the highest IP monitoring standard available.



SkyCommand

Receive alarm notifications and control your alarm system like never before - anywhere at any time.

SkyCommand delivers alarm notifications and the freedom to control security areas, lights, heating/cooling and door access.

Features:

- Instant notifications for alarm events to your mobile phone*
- Arm and disarm your security system remotely
- Supports multiple sites and security areas
- Remotely turn on and off locks and appliances
- Create favorites lists for quick access to items
- Personalise items with images
- Notification and event history
- PIN or Biometric App entry and lock
- *Push Notification is a subscription service. Contact Inner Range for a SkyCommand Dealer form and pricing.

Utilising T4000 high-level integration to an Integriti, Inception or Concept system, SkyCommand provides powerful control over door access, security and automation.

alarm panel.

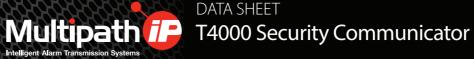
H21 0 KIN & J7458	1423 0 421 5.47414
	← Smith Residence E
🚽 SkyCommand	☆ 〇 🏽 이 🖻 🚍 Favountes
	Front Door
B Ernal Address	Main House Co Armet, Full
Pressured Remember Me	Garage
Sign In	Driveway Lights
	# SkyCommand
E Registre 2 von anzant 🛛 Ving	
Easy Access	Multiple Sites & Areas
Available now on:	Google play



Third party alarms systems can also be controlled using the output on a T4000 via a key-switch input on any third party



DATA SHEET Multipath // T4000 Security Communicator



DATA SHEET



The Multipath-IP T4000 is a highly advanced and cost-effective field device used to connect any Contact-ID dialer equipped alarm panel to a central monitoring station via multiple highly secure IP paths.

The versatile T4000 is packed with many industry-first features that make it the best tool in any Installer's toolbox. Its core strength focuses on ease of installation, ease of operation and low-cost security monitoring.

Along with all the features you have come to expect such as Dual 4G and Ethernet alarm transmission paths, The T4000 also brings modern capabilities to existing alarm systems such as smartphone apps and push notification service.*

Using its industry first "Router Functionality", the T4000 can even leverage Inner Range's SkyTunnel cloud-based infrastructure for seamless IP connectivity of Inner Range alarm systems.**

The T4000 also provides a communications path for upload/download programming of many popular alarm systems on the market when a PSTN line is not available at the installation site.

The T4000's small footprint allows it to retrofit easily into existing alarm system cabinets or be housed in its own security cabinet with a backup battery.

T4000 Lite

The Multipath-IP T4000 Lite features the same highly advanced feature set as the original T4000. The on-board battery charger and PSTN dial through functions are not fitted to the T4000 Lite, providing the perfect solution for the cost sensitive residential market in areas where the NBN is rolling out. With a smaller price tag, it is a great solution for installations where the T4000 Lite is being powered from an existing battery-backed alarm system.

* Push notification subscription required. ** Router data subscription required.

Features

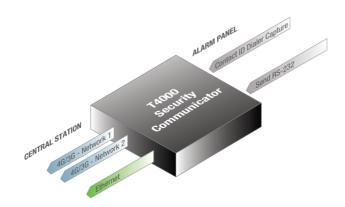
- Simple Plug and Play installation
- Ultra-fast 4G dual SIM polled communications paths
- 10/100 Mbps Ethernet port for high-speed polling
- Configurable bi-directional polling from 10 seconds to 5 minutes to meet the requirements of Australian Standard AS2201.5
- Secure 128Bit AES encrypted data transmission
- Over-the-air upload/download to compatible alarm systems using modem dial-up and serial pass-through methods
- Dialer Capture port to receive communications from any alarm panel equipped with a dialer and programmed to report Contact-ID
- High-level integration with Inner Range Integriti, Inception & Concept Systems
- Remote firmware update capability
- General purpose security input
- Relay output for control of external devices Remotely arm/disarm connected alarm system
- App that allows the end user to control their alarm system, i.e. arm/disarm, auxiliary control and automation. Available on Google Play and IOS stores web: https://skycommand.com.au
- Alarm reporting using Contact-ID and IRFast with text formats
- Compact and versatile form factor
- Easy to read functional LED status display
- 12-24VDC supply voltage
- Battery backup capability*** (Battery sold separately) *** Not supported on T4000 Lite.



Package Contents

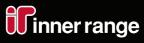
- T4000 Security Communicator
- 3.5Dbi magnetic antenna 2m cable
- Dual network SIM cards (Pre-Installed)
- Dialer Capture lead

Connectivity



Specifications

101(L) x 98(W) x 35(D) (mm) 190g 4 x M4 screws to chassis 0°C - 50°C @15% - 90% relative humidity (non-condensing) -25°C to +50°C ambient unforced ventilation 1 Relay Output 2Amp 30VDC 1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2 Ethermet Status (Link/Actt)
4 x M4 screws to chassis 0°C - 50°C @15% - 90% relative humidity (non-condensing) -25°C to +50°C ambient unforced ventilation 1 Relay Output 2Amp 30VDC 1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
O°C - 50°C @15% - 90% relative humidity (non-condensing) -25°C to +50°C ambient unforced ventilation 1 Relay Output 2Amp 30VDC 1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
-25°C to +50°C ambient unforced ventilation 1 Relay Output 2Amp 30VDC 1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
1 Relay Output 2Amp 30VDC 1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
2Amp 30VDC 1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
2Amp 30VDC 1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
1 configurable (EOL or No-EOL) 10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
10/100 Mbps RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
RJ12 (Not fitted on Lite Model) RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
RJ12 Contact-ID Dialer Capture RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
RS-232, TTL Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
Power/Battery Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
Panel GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
GSM Registration Host (Server Online) Alarms Buffered GSM Modem SIM1/2
Host (Server Online) Alarms Buffered GSM Modem SIM1/2
Host (Server Online) Alarms Buffered GSM Modem SIM1/2
GSM Modem SIM1/2
SIM1/2
Ethernet Status (Link/Act)
Contact ID, IRFast, IRFast + Text
128 bit AES
gh via IP (4G/3G/Ethernet)
Dial-up Modem, Serial RS232
Bell 103, V21, V22
Dell 103, V21, V22
4500 DUG
1500v RMS
65V RMS
30mA
-10dBm
2 watts
12-24VDC, 200mA nominal (18VDC 1 Amp recommended for Battery backup)
PTC protection + on-board fuse (non-replaceable)
90mA (Idle) + 30mA (GSM Online) (Not supported on T4000 Lite)
500mA average
72 hours (Not supported on T4000 Lite)
48 hours (Not supported on T4000 Lite)
8 volts
11 volts
12 Volt SLA (gel) type, 7 Amp-Hour (Not supported on T4000 Lite)
RoHS





T4000

9985304G - Australia Network - Telstra/Optus

998530LT4G -Lite Model -Australia (Telstra/Optus)

998530NZ - New Zealand Network - Vodafone N7/Spark N7

998530SPARK - New Zealand Network - Spark NZ

Accessories



999065 18VDC 1Amp plug pack power supply includes battery cables

Itipath

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995200XS Extra Small Metal Enclosure



999028 Din Rail Clip Pack (2 Packs)

996795 Integriti/Concept Port Zero Interface Cable

996796 Integriti/Concept UART Interface cable

996797 Inception USB Interface cable

994093 6.5dBi Hi-Gain Antenna, 5m lead

994094 4 5dBi Hi-Gain Antenna, 10m lead



DATA SHEET Multipath **1** T4000 Lite Security Communicator





The Multipath-IP T4000 Lite features the same highly advanced feature set as the original T4000 only in a smaller form factor and packing more inputs and outputs.

The on-board battery charger and PSTN dial through functions are not fitted to the T4000 Lite. With a smaller price tag, it is a great solution for installations where the T4000 Lite is being powered from an existing battery-backed alarm system. Its tiny footprint allows it to easily retrofit into existing alarm system cabinets.

Simply connect any Contact-ID enabled dialler panel into the 'Panel' port for instant cellular alarm reporting.

Along with all the features you have come to expect from T4000, such as Dual 4G and Ethernet alarm transmission paths, The Lite also brings modern capabilities to existing alarm systems such as smartphone apps and push notification service.*

The three outputs built into the Lite are fully controllable from the SkyCommand app by the end user. The outputs can be programmed to control areas on the end user's alarm panel using a keyswitch input or used for general purpose remote control.

Using its industry first "Router Functionality", the T4000 can even leverage Inner Range's SkyTunnel cloud-based infrastructure for seamless IP connectivity of Inner Range alarm systems.**

The T4000 also provides a communications path for upload/download programming of many popular alarm systems on the market when a PSTN line is not available at the installation site.

Features

- Simple plug and play installation
- Single SIM 4G Cat M1 to 4G Dual SIM
- Compatible with most alarm systems
- 3 inputs
- 3 outputs
- Over-the-air upload/download to compatible alarm systems
- Contact-ID and IRFast with text formats
- Remote Control using the SkyCommand smart phone app
- Minimal power consumption
- Over-the-air firmware updatable

Specifications

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Size:	101(L) x 79(W) x 23(D) (mm) (Not including connectors)
Weight:	195g
Enclosure Type:	ABS plastic
Installation Environment:	0°C - 50°C @15% - 90% relative humidity (non-condensing)
LED Indicators	
Status Indicators:	5
Alarm Communications	
Alarm Formats:	Contact ID, IRFast, IRFast + Text
PABX	
Max PABX line Voltage:	65V RMS
Max PABX Current:	30mA
PABX Output Level:	-10dBm
Max RF Power:	2 watts





- •T4000 Lite Security Communicator
- 3.5 dBl Magnetic Base Antenna 2 meter cable
- Accessory Kit Installation Manual
- SIM Cards included



998535NZ 4000 Lite Security Communicator, Dual SIM - Vodafone NZ/ Spark N7

Power Specifications

nput:	12-24VDC, 150mA Nominal
Current consumption @ 13V DC:	115mA (Idle) + 30mA (GSM Online)
/linimum operating voltage:	8V DC
ow volts sense voltage (typical):	11.0V
use:	PTC protection + on-board fuse (non-replaceable)
Zone input:	3 Software configurable (EOL or Non-EOL)
Open Collector output (OUT) current:	3 100mA DC per output
Compliance	
lectrical:	
nvironmental:	RoHS



The T4000 Ultralite is the lowest cost T4000 model to date making it the ideal communicator for residential security monitoring. Simply connect any Contact-ID enabled dialler panel into the 'Panel' port for instant cellular alarm reporting.

Packing all the power of the original T4000, the Ultralite doesn't sacrifice on capabilities. Its tiny footprint allows it to easily retrofit into existing alarm system cabinets.

The Ultralite connects to the Cat M1 internet of things network which provides superior coverage, in most cases better mobile reception will minimize the installation time and cost without the need for costly high gain antennas.

The T4000 Ultralite is also fully capable of providing an upload/download communications path for older PSTN panels. Upload/download allows remote programming of many popular alarm systems on the market when a PSTN line is not available at the installation site.

The three outputs built into the Ultralite are fully controllable from the SkyCommand app by the end user. The outputs can be programmed to control areas on the end user's alarm panel using a keyswitch input or used for general purpose remote control.

Features

- Simple plug and play installation
- Single SIM 4G CatM1
- Compatible with most alarm systems
- 3 inputs
- 3 outputs
- Over-the-air upload/download to compatible alarm systems
- Contact-ID and IRFast with text formats
- Remote Control using the SkyCommand smart phone app
- Minimal power consumption
- Over-the-air firmware updatable

Specifications

Physical		Power specifications		
Size:	101(L) x 79(W) x 23(D) (mm)	Input:	12-24VDC, 150mA Nominal	
	(Not including connectors)	Current consumption @ 13V DC:	115mA (Idle) + 30mA (GSM Online)	
Weight:	190g	Minimum operating voltage:	8V DC	
Enclosure Type:	ABS plastic	Low volts sense voltage (typical):	11.0V	
Installation Environment:	0°C - 50°C @15% - 90% relative humidity (non-condensing)	Fuse:	PTC protection + on-board fuse (non-replaceable)	
LED Indicators		Zone input:	3 Software configurable (EOL or Non-EOL)	
Status Indicators:	tus Indicators: 5	 Open Collector output (OUT) current: 	3 100mA DC per output	
Alarm Communications		Compliance	1 1	
Alarm Formats:	Contact ID, IRFast, IRFast + Text	compliance		
PABX		Electrical:		
Max PABX line Voltage:	65V RMS			
Max PABX Current:	30mA	Environmental:	RoHS 🔏	
PABX Output Level:	-10dBm	_		
Max RF Power:	2 watts	_		









Multipath-IP

Package Contents

Accessory Kit

Installation Manual

SIM card included

 T4000 Ultralite Security Communicator • 3.5 dBl Magnetic Base Antenna 2 meter cable



998536

T4000 Ultralite Security Communicator, Single SIM Telstra

998536NZ

T4000 Ultralite Security Communicator, Single SIM Spark (New Zealand)



Power Supplies



integriti INTEGRATED SOLUTIONS

DATA SHEET 8Amp SMART Power Supply

The 8Amp 13.75VDC Smart Power Supply Unit (PSU) is a highly efficient power supply solution designed to meet the modern high spec requirements unique to access control and intruder systems. Monitoring of the power supply status is pivotal to the operation and performance of any security system, and the Integriti 8Amp Smart power supply delivers this very effectively.

When used with the Integriti system, the 8Amp Smart power supply offers Quick-Connect status monitoring of critical power-related aspects such as Battery Fault, Low Battery, Battery Not Present, Battery Failed Test, AC Supply Failure, Supply Low Volts, Power Supply Failure and status monitoring of all Smart Fuses. It also features general purpose AC Fail & Battery Fail alarm outputs and a separate Battery Charger output with Deep Discharge Protection.

The 8Amp Smart power supply features a highly reliable design that offers exceptional stability when used with the recommended battery type and is also suitable for providing power to card readers including Proximity type reader heads.

The Integriti 8Amp Smart power supply is designed primarily for use as a battery-backed supply for Integriti modules supporting the Quick-Connect "External Power" bus connection. This includes the Standard LAN Access Module (SLAM), the Integriti Intelligent LAN Access Module (ILAM), the Integriti 8 Zone LAN Expander and the Integriti Access Controller (IAC).

When used with these modules, the power supply and battery status may be monitored and reported via dedicated System Inputs on the Host Module, with no need to physically wire inputs for power supply monitoring.

The Integriti 8Amp Smart power supply can also be used as a general purpose, battery-backed supply to power legacy or 3rd party equipment via the plug-on screw terminals.

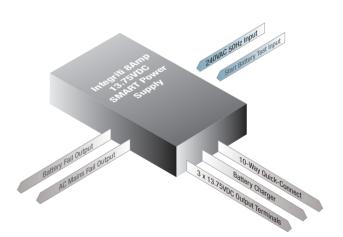
SMART Features

The Integriti 8Amp SMART power supply is designed primarily for use as a battery backed supply for Integriti modules supporting the 10-way Quick-Connect "External Power" bus connection, these modules include:

- The Integriti Standard LAN Access Module (SLAM)
- The Integriti Intelligent LAN Access Module (ILAM)
- The Integriti 8 Zone LAN Expander
- The Integriti Access Controller (IAC)
- · High-level monitoring of PSU status (with the above Integriti modules): - Battery Fault, Low Battery and Battery Not Present
- Battery Failed Test - AC Supply Failure
- Supply Low Volts
 - Power Supply Failure - Detector+ Smart Fuse Tripped
- LAN+ Smart Fuse Tripped
- Dynamic battery testing
- Deep Discharge Battery protection Battery reverse polarity protection
- Quick-Connect PSU interface for Integriti modules
- Fully overload protected
- Smart Fuse protection
- Intelligent load sharing
- LED status indicators
- Universal low-level status outputs AC Fail & Battery Fail
- Separate battery charger output
- Constant current limiting on battery charger output
- 3 x heavy duty DC output connections
- 240VAC IEC mains cable input



Connectivity



Power Supp

DATA SHEET **INTEGRITI** 8Amp SMART Power Supply

DATA SHEET **INTEGRITI** 3Amp SMART Power Supply

Specifications

Physical	
Size:	274(L) x 100W) x 64(D) (mm)
Weight:	1.1 kg (PSU Only)
Mounting:	4 x M4 screws to chassis
Installation Environment:	0°C - 50°C @15% - 90% relative humidity (non-condensing)
Working Temperature Range:	-25°C to +50°C ambient unforced ventilation

High-Level PSU Status Monitoring

Status Alarms:	AC Failure, Power Supply Low Volts, Battery Fault, Battery Low, Battery Not Present, Power Supply Failure, LAN+ Smart Fuse Tripped, Detector+ Smart Fuse Tripped, Battery Failed Test, Trigger Battery Test
Battery Alarm Thresholds	
Low Battery Alarm:	11.0VDC
Deep Discharge Protection:	10.4VDC
Recovery From Deep Discharge:	12.2VDC
Connections	
Outputs:	10-way Quick-Connect socket for Integriti modules
	3 x common 13.75VDC +/- Smart Fused heavy duty outputs, suits up to 14 gauge cable
	Battery charger connection (for 12V lead acid battery)
	Low-level AC Failure output (open collector output)
	Low-level Battery Fail output (open collector output)
	External Earth terminal for connection to enclosure
Inputs:	Start Battery Test Input Trigger (zero volt dry contact input)
	IEC type mains power input socket
LED Indicators	
Status Indicators:	AC OK
	Battery Charging
Fault Indicators:	Battery Fault
	Fault on V+ Connection
	Fault on Quick-Connect PSU Connection
Power Specifications	
Input:	240VAC, 50Hz, 1.1Amp
Mains Fuse:	2.0A (T)
Output Voltage:	13.75VDC
Max Output Current:	6.5Amp constant + 1.5Amp charger
	8.0Amp without charger (intelligent load sharing)
	10.0Amp short term with battery support
Load Regulation:	< 2.5% @ load 0-9 Amp
Output Ripple:	< 100mVRMS @ full load
Battery Charging:	CC/CV
Battery Types	
Recommended Battery:	1 or 2, 18Ah 12V Sealed Lead Acid Only
Safety Standards	
-	AS/NZS 3820, Essential Safety Requirements for Electrical Equipment AS/NZ 60950.1:2011 Information Technology Equipment
	Safety AS/NZS CISPR 22:2009 Information Technology Equipment
	Radio Disturbance Characteristic
	Limits and methods of measurement. Class A, Class B with snap-on ferrite p on the mains cable (Wurth 742 717 33)
Compliance	
Electrical:	

RoHS

Ordering Options

Integriti 8Amp 13.75VDC SMART Power Supply Module, PSU only

996092

995204PE8

WideBody Key Lockable Enclosure fitted with 8Amp 13.75VDC SMART Power Supply

995201PE8

Medium Enclosure fitted with 8Amp 13.75VDC SMART Power Supply

995203PE8 Xlarge Enclosure fitted

with 8Amp 13.75VDC SMART Power Supply

995220PE8

Rack Mount Enclosure fitted with 8Amp 13.75VDC SMART Power

Power Supply Cables

996792

Integriti PSU patch lead, 430mm 10way to 10way header (Supports SMART PSU status monitoring with Integriti modules and Integriti 3 & 8Amp SMART PSU's)

996794

Integriti PSU patch lead, 500mm 10way to Red&Black flying leads (Does not support SMART PSU status monitoring with Integriti modules)

The 3Amp 13.75VDC SMART power supply is a universal power supply which can be used wherever battery backed 12V supplies are required.

When used with the Inner Range Integriti system, the 3Amp SMART power supply offers Quick-Connect status monitoring of critical power-related events such as Battery Fault, Low Battery, Battery Not Present, Battery Failed Test, AC Supply Failure, Supply Low Volts, Power Supply Failure and status monitoring of self-resetting, processor controlled Smart Fuses. It also features general purpose AC Fail & Battery Fail alarm outputs and a separate Battery Charger output with Deep Discharge Protection.

The 3Amp power supply boasts a highly reliable design that delivers exceptional stability when used with the recommended battery type and is also suitable for providing power to card readers including Proximity type reader heads.

General Purpose Use

The Integriti 3Amp power supply can also be used as a general purpose, battery-backed, 13.75VDC supply to power legacy or 3rd party equipment via the plug-on screw terminals. It is extensively used to power Integriti or Concept modules, detectors, readers and auxiliary devices such as strobes, sounders and locks.

Features

- High-level monitoring of PSU status (with Integriti modules)
- Quick-Connect PSU interface (for Integriti modules)
- Separate battery charger output
- Deep Discharge Battery protection
- Battery reverse polarity protection
- Smart Fuse protection
- Universal low-level status outputs AC Fail and Battery Fail
- Low-level Trigger Battery Test input
- Separate LAN+ & DET+ DC output connections (screw terminals)
- 16VAC input (a 4Amp transformer is required)

SMART Features

The Integriti 3Amp SMART power supply is designed primarily for use as a battery backed supply for Integriti modules supporting the 10-way Quick-Connect "External Power" bus connection, these modules include:

- The Integriti Standard LAN Access Module (SLAM)
- The Integriti Intelligent LAN Access Module (ILAM)
- The Integriti 8 Zone LAN Expander
- The Integriti Access Controller (IAC)

When used with these modules the 3Amp PSU offers Plug&Play Quick-Connect high-level status monitoring of critical power-related events such as:

- Battery Fault
- Low Battery
- Battery Not Present
- Battery Failed Test
- AC Supply Failure
- Supply Low Volts
- Power Supply Failure
- Status monitoring of self-resetting, processor controlled Smart Fuses



Finner range

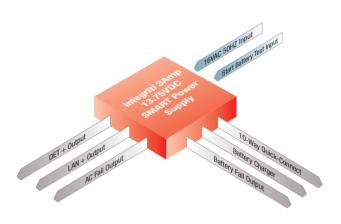
Environmental:







Connectivity



Power Supplie:

DATA SHEET **INTEGRITI** 3Amp SMART Power Supply

DATA SHEET **INTEGRITI** 2Amp Standard Power Supply

Specifications

Physical	
Size:	95(L) x 95(W) x 45(D) (mm)
Mounting:	4 x M3 screws to Inner Range chassis clips
Installation Environment:	0°C - 50°C @15% - 90% relative humidity (non-condensing)
Working Temperature Range:	-25°C to +50°C ambient unforced ventilation

AC Failure, Power Supply Low Volts, Battery Fault, Battery Low, Battery Not

Tripped, Battery Failed Test, Trigger Battery Test

10-way Quick-Connect socket for Integriti modules

Present, Power Supply Failure, LAN+ Smart Fuse Tripped, Detector+ Smart Fuse

High-Level PSU Status Monitoring

(Available when connected to Integriti LAN modules via 10-way Quick-Connect cable)

11.0VDC

10.4VDC

12.2VDC

Status Alarms

Battery Alarm Thresholds Low Battery Alarm: Deep Discharge Protection: Recovery From Deep Discharge

Connections Outputs:

	1 x DET +/- 13.75VDC & 1 x LAN +/- 13.75VDC
	Battery charger connection (for 12V lead acid battery)
	Low-level AC Failure output (open collector output)
	Low-level Battery Fail output (open collector output)
	External Earth terminal for connection to enclosure
Inputs:	Start Battery Test Input Trigger (zero volt dry contact input)
LED Indicators	
Status Indicators:	AC OK
	Battery Charging
Fault Indicators:	Battery Fault
	Fault on DET+ Connection
	Fault on LAN + Connection
Power Specifications	
Input Voltage:	16VAC, 50hz
Input Current:	3Amp with 4Amp transformer fitted and LK1 jumper fitted
	1.5Amp with 1.5Amp plug-pack fitted and LK1 jumper removed
Output Voltage:	13.75VDC +/-5%, up to 3Amp. (battery fully charged)
Max Output Current:	3Amp with LK1 fitted
	1Amp with LK1 removed
Switching Fraguancy	270 4 2 200704

Switching Frequency: 370 kHz. approx Load Regulation: +0/-500mV@lout=0.1A to 3.0A Conversion Efficiency: 85%. approx < 100mVRMS @ full load Output Ripple

Battery Types

1 x 7Ah, 9Ah or 18Ah 12V Sealed Lead Acid Only Recommended Battery

Compliance Electrical:

Environmental:



Ordering Options

996091PCB&K

Integriti 3Amp

accessories

995200PE3

995201PE3

Integriti Small Enclosure

fitted with 3Amp 13.75VDC

SMART Power Supply and 4Amp mains transformer

Integriti Medium Enclosure fitted with 3Amp 13.75VDC SMART Power Supply and 4Amp mains transformer

13.75VDC SMART Power Supply PCB &







995203PE3

Integriti Xlarge Enclosure fitted with 3Amp 13.75VDC SMART Power Supply and 4Amp mains transformer

995204PE3

WideBody Enclosure fitted with 3Amp 13.75VDC SMART Power Supply and 4Amp mains transformer

995220PE3

Rack Drawer fitted with 3Amp 13.75VDC SMART

Power Supply Cables

Integriti PSU patch lead, 430mm 10way to 10way header (Supports SMART PSU status monitoring with Integriti modules and Integriti 3 & 8Amp SMART PSU's)

996794

Integriti PSU patch lead, 500mm 10way to Red&Black flving leads (Does not support SMART PSU status monitoring with Integriti modules)

The Standard 2Amp 13.75VDC power supply is a universal power supply which can be used wherever battery backed 12V supplies are required. The Standard 2Amp power supply boasts a highly reliable design that offers exceptional stability when used with the recommended battery type and is also suitable for providing power to card readers including Proximity type reader heads. The Standard 2Amp power supply is factory fitted in Small Integriti and Concept equipment enclosures, or supplied as a PCB module.

General Purpose Use

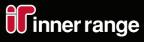
The Standard 2Amp power supply can also be used as a general purpose, battery-backed, 13.75VDC supply to power legacy or 3rd party equipment via the plug-on screw terminals. It is extensively used to power Integriti or Concept modules, detectors, readers and auxiliary devices such as strobes, sounders and locks.

Features

- 10-way Quick-Connect output for Integriti modules such as the Standard LAN Access Module (SLAM), Intelligent LAN Access Module (ILAM) and 8 Zone LAN Expander
- Ribbon cable output for Concept Modules, such as the Mini Expander, and the 2 Door Access module
- Separate DC output connections (screw terminals)
- Low-level AC Fail alarm output with built-in 2K2/2K2 EOL resistors
- Low-level Battery Fail alarm output with built-in 2K2/2K2 EOL resistors
- Low-level Trigger Battery Test input
- Small form factor
- Fused battery protection (4Amp)
- LED indication of Output Present, AC Fail and Low Battery
- · Can be linked with a second 2Amp power supply to provide a 4Amp or dual-redundant power source
- Can be set to a 1Amp current limit
- 16VAC input (a 3Amp transformer is required)





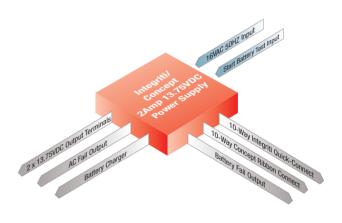


Power Supply and 4Amp mains transformer





Connectivity



Power Supplie



DATA SHEET **INTEGRITI** 2Amp Standard Power Supply

DATA SHEET **Integriti** Power Accessories

Specifications

Physical		
Size:	95(L) x 95(W) x 45(D) (mm)	
Mounting:	4 x M3 screws to Inner Range chassis clips	
Installation Environment:	0°C - 50°C @15% - 90% relative humidity (non-condensing)	
Working Temperature Range:	-25°C to +50°C ambient unforced ventilation	
Battery Alarm Thresholds		
Low Battery Alarm:	11.0VDC	
Deep Discharge Protection:	10.4VDC	
Recovery From Deep Discharge:	12.2VDC	
Connections		
Outputs:	10-way Quick-Connect socket for Integriti modules	
	10-way ribbon cable socket for Concept modules	
	2 x common 13.75VDC +/- outputs	
	Battery charger connection (for 12V lead acid battery)	
	Low-level AC Failure output (open collector output with built-in 2K2/2K2 EOL resistors)	
	Low-level Battery Fail output (open collector output with built-in 2K2/2K2 EOL resistors)	
	Low-level Battery Fail output (open collector output)	
	External Earth terminal for connection to enclosure	
Inputs:	Start Battery Test Input Trigger (zero volt dry contact input)	
LED Indicators		
Status Indicators:	Output ON	
Fault Indicators:	Battery Low	
	AC Fail	
Power Specifications		
Input Voltage:	16VAC, 50hz	
Input Current:	2Amp with 3Amp transformer fitted and LK1 jumper fitted	
	1.5Amp with 1.5Amp plug-pack fitted and LK1 jumper removed	
Output Voltage:	13.75VDC +/-5%, up to 2Amp. (battery fully charged)	
Max Output Current:	2Amp with LK1 fitted	
	1Amp with LK1 removed	
Switching Frequency:	370 kHz. approx.	
Load Regulation:	+0 / -500mV @ lout = 0.1A to 2.0A	
Conversion Efficiency:	85%. approx.	
Output Ripple:	100mV RMS max. @ lout = 2A	
Battery Types		
Recommended Battery:	1 x 7Ah, 9Ah or 18Ah 12V Sealed Lead Acid Only	
Compliance		
Electrical:		

RoHS

Ordering Options

996090PCB&K

Integriti Standard 2Amp 13.75VDC Power Supply Module, PSU only

995200PE2

Integriti/Concept Small Enclosure fitted with Standard 2Amp 13.75VDC Power Supply and 3Amp mains transforme

995201PE2 Medium Enclosure with 2Amp PSU

995203PE2

Xlarge Enclosure with 2Amp PSU

995220PE2 Rack Drawer with 2Amp

Power Supply Cables

996792

Integriti PSU patch lead, 430mm 10way to 10way header (Supports SMART PSU status monitoring with Integriti modules and Integriti 3 & 8Amp SMART PSU's)

996794

Integriti PSU patch lead, 500mm 10way to Red&Black flying leads (Does not support SMART PSU status monitoring with Integriti modules)

Fire Door Release Relay - DC Power HUB

The 4-way Fire Door Release Relay / Switched DC Power Hub is a universal 1-in-4-out power distribution and switching hub, specifically designed for distribution and switching of DC power to electronic door locking devices. It offers a single input for connection to a DC power supply and 4 universal fused outputs with each output offering both "Always On" and "Switched" connections. This allows other control systems such as fire alarm panels to disconnect power to locks etc. under certain conditions to provide free access at access controlled Doors. The control sense input can be configured for normally closed/normally open contacts or constant 12V/24VDC outputs from the external control or fire alarm system.

Ordering Options

995916 Fire Door Release Relay / Switched DC Power Hub

Passive Relay Cards 2 x10 Amp Relay Card (Connected Strip of 8)

The 2 x 10Amp x 8 Relay Board provides low voltage, high current relay outputs, offering a general purpose switching interface. The Relay Card is supplied as a strip of 8 boards with a common DC supply connection that can be used complete with all 16 relays or broken down to the required size. The relays can be switched by any open collector auxiliary output capable of switching up to 50mA.

1Amp DPDT Relay Card

The 1 Amp Double-Pole, Double-Throw Relay Card provides low voltage relay outputs offering a general purpose switched interface. A single relay is provided with connections for two independent sets of contacts. The relays can be switched by any open collector auxiliary output capable of switching a minimum of 20mA.

LAN Hubs & Power +/- Hub

Four types of passive LAN HUBs are available for the distribution of Integriti or Concept RS- 485 networks and detector +/- power. The 995911 provides a single 10 way HUB or can be broken into 3 to provide 2 x 3 way sections and 1 x 4 way. The 995915 provides a single compact 8 way HUB. The 995910 provides a single 9 way HUB with additional terminals for detector positive and zero volt connections. The 995914 provides a single 32 way HUB for detector positive and zero volt connections. All HUBs include an LED power indicator and are supplied complete with terminal blocks and mounting posts/self-adhesive mounts.

Ordering Options

995911 LAN Hub board (Breakaway Version) 995915 Mini LAN Hub board 8 Way 995910 LAN Hub board 9 Way (With DET+ & 0V) 995914 DET Power LAN Hub board (32 Way DET+ & 0V)

Surge Diverters

Where Integriti or Concept hardware is installed in locations and environments where a very high level of transient electrical activity might be anticipated, the addition of Inner Range Advanced Surge Protection Devices adds a further layer of transient protection.

There are three unique Inner Range Advanced Surge Protection Devices with each device purpose built to provide additional protection in line with the most vulnerable components of the system circuitry: The phone line, the power supply and the Controller RS-485 LAN.

Ordering Options

995040 Low Voltage AC and Battery Surge Diverter 995041 Inner Range RS-485 LAN Surge Diverter 995042 PSTN (Telecom) Line Surge Diverter



Environmenta









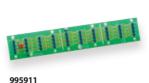


995083M

Ordering Options

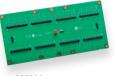


995083M 2 x10Amp x 8 Relay Card 995085 1Amp DPDT Relay Card





99591



995914

995910



Power Suppl

Enclosures



DATA SHEET Extra Small

The Extra Small Enclosure (XS) is fabricated in the same robust style as the Small, Medium & Extra Large Low Profile Enclosures. The Extra Small Enclosure uses the same mounting plate as the current 995200 series of Small Enclosure and is designed to house Inner Range LAN modules that are either powered via the LAN or an external plug pack or 3rd party power supply.

The Extra Small Enclosure is a versatile enclosure that will house a range of small size PCB's, and also provides an antenna mounting solution for wireless products such as Multipath-IP STU or FE3000 GSM modules.

Specifications Dhycical

Physical	
Enclosure Size 252(L) x 263(W) x 85(D)	
Cable Entry Points	
Тор	4 x 25mm Round Conduit Punch-outs
	1 x Power Entry/Antenna Mount Point
Base	2 x 25mm Round Conduit Punch-outs
	1 x Power Entry

Ordering Options 995200XS Extra Small Enclosure (Enclosure Only)

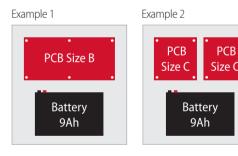




Scan here for more layout examples



Layout Options





DATA SHEET **Integriti** Small Enclosure

DATA SHEET **INTEGRITI** Medium Enclosure

The Small Enclosure (S) is a universal sturdy metal enclosure designed for general purpose installation of small size Inner Range Integriti, Inception or Concept equipment. The design allows for a range of Integriti, Inception or Concept Module PCB's to be fitted. In addition to the Power Supply PCB, 1 x "B" size or 2 x "C" size PCB's may be fitted per enclosure.

A range of powered or non-powered versions are available.

The Small Enclosure's low profile side elevation protrudes less than 90mm from the mounting surface.



Specifications

Physical

i nysicai		
Enclosure Size	252(L) x 358(W) x 85(D)	
Cable Entry Points		
Тор	4 x 25mm Round Conduit Punch-outs	
	1 x Power Entry/Antenna Mount Point	
Base	2 x 25mm Round Conduit Punch-outs	
	1 x Power Entry	
Back Through wall cable entry behind main plate		
Powered Versions: 2/3Amp See the Integriti 2/3 Amp PSU Data for PSU Specifications		

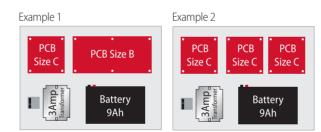
Ordering Options

995200PE2 Small Enclosure Powered with 2Amp PSU 995200PEEU2 Small Enclosure Powered with 2Amp PSU (Europe) 995200PE3 Small Enclosure Powered with 3Amp SMART PSU 995200PEEU3 Small Enclosure Powered with 3Amp SMART PSU (Europe) 995200 Small Enclosure - (Empty Enclosure)

Scan here for more layout examples:



Layout Options



The Integriti Medium Enclosure (M) is a sturdy metal enclosure designed for general purpose installation of Integriti or Inception Controllers, UniBus devices, LAN modules and is backwards compatible with some Concept modules. The flexible design allows for a range of Integriti / Inception equipment to be fitted in various custom configurations to meet many installation requirements.

The Medium Enclosure's low profile side elevation protrudes less than 90mm from the mounting surface.

Features

- Robust metal enclosure
- Designed for universal installation requirements
- Version to suite Integriti & Inception Controllers and Modules
- Mounting options for 18Ah or 9Ah Lead Acid Batteries
- Low Profile design Size 460(L) x 358(W) x 85(D)
- Suitable for Integriti/Inception (or Concept) medium size equipment mounting plates
- Designed to house Integriti PCB's
- Integriti/Inception Controllers
- Integriti LAN Modules
- UniBus Expansion Devices
- Compatible with some Concept PCB's

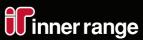
Specifications

Physical		
Enclosure Size	460(L) x 358(W) x 85(D)	
Cable Entry Points		
Тор	3 x 25mm Round Conduit Punch-outs	
	1 x 25x50mm Punch-out	
	1 x 50x50mm Punch-out	
	1 x Power entry	
Base	2 x 25mm Round Conduit Punch-outs	
	1 x Power Entry	
	1 x DB9 Chassis Mount Point	
Back	Through wall cable entry behind main plate	
Powered Versions: 2/3/8Amp	See the Integriti 2/3/8Amp PSU Datasheets for	
	PSU Specifications	

Ordering Options

995201PE8 Medium Enclosure powered with SMART 8Amp PSU 995201PEEU8 Medium Enclosure powered with SMART 8Amp PSU (Europe)* 995201PE3 Medium Enclosure powered with SMART 3Amp PSU 995201PEEU3 Medium Enclosure powered with SMART 3Amp PSU (Europe) 995201PE2 Medium Enclosure powered with 2Amp PSU 995201PEEU2 Medium Enclosure powered with 2Amp PSU (Europe) 9952011 Medium Enclosure only - (Empty Enclosure suit Integriti) *Product not available in EU at time of printing

The products listed above are Integriti/Inception versions and are not compatible with some Concept PCB's



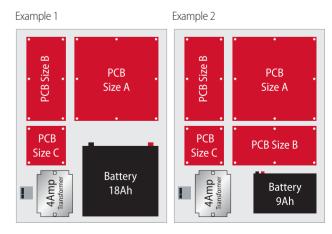




Scan here for more layout examples:



Layout Options



ncios



DATA SHEET **INTEGRITI** Extra Large Enclosure

DATA SHEET Integriti WideBody Enclosure

The Extra Large Enclosure (XL) is a universal sturdy metal enclosure designed for general purpose installation of either Inner Range Integriti or Concept equipment. The flexible design allows for the complete range of Integriti or Concept equipment to be fitted in various custom configurations to meet almost any installation requirement.

A range of powered or non-powered models are available.

The Extra Large Enclosure's low profile side elevation protrudes less than 90mm from the mounting surface.

Features

- Robust metal enclosure
- Designed for universal installation requirements
- Suitable for Integriti Controllers and Modules
- Suitable for Concept Controllers and Modules
- Mounting options for 18Ah or 9Ah Lead Acid Batteries
- Optional battery holder brackets are available
- Low profile design size 702(L) x 358(W) x 85(D)
- Suitable for Integriti or Concept medium or large size equipment mounting plates

Designed for a range of Integriti or Concept Products

- Integriti Controllers (IAC or ISC)
- Integriti LAN Modules
- Integriti UniBus Expansion Devices
- Concept Controllers
- Concept LAN Modules
- Concept Peripheral Devices

Specifications

Physical

Enclosure Size	702(L) x 358(W) x 85(D)
Cable Entry Points	
Тор	2 x 25mm Round Conduit Punch-outs
	1 x 25x50mm Punch-out
	1 x 50x50mm Punch-out (with 25mm round inset)
	1 x Power Entry
Base	1 x 50x50mm Punch-out (with 25mm round inset)
	1 x Power Entry
	1 x 25x50 IEC lead entry point (Entry plate required)
Back	Through wall cable entry behind main plate
Powered Versions: 2/3/8Amp	See the Integriti 2/3/8Amp PSU Datasheets for PSU Specifications

Ordering Options

995203PE8 Extra Large Enclosure powered with SMART 8Amp PSU 995203PEEU8 Extra Large Enclosure powered with SMART 8Amp PSU (Europe)* 995203PE3 Extra Large Enclosure powered with SMART 3Amp PSU 995203PEEU3 Extra Large Enclosure powered with SMART 3Amp PSU (Europe) 995203PE2 Extra Large Enclosure powered with 2Amp PSU 995203PEEU2 Extra Large Enclosure powered with 2Amp PSU (Europe) 995203 Extra Large Enclosure (Enclosure Only) *Product not available in EU at time of printing

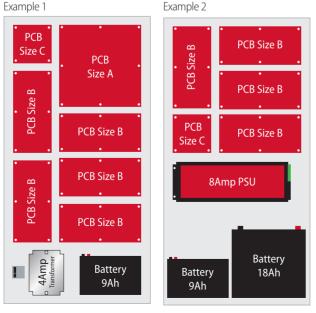


Scan here for more layout examples:



Layout Options





The WideBody Enclosure (WB) is a key lockable sturdy metal enclosure designed for installation of Integriti Access Control solutions where all the Integriti equipment, 3 or 8Amp power supply and backup batteries can be contained within a single tamper monitored enclosure.

The enclosure will house all the equipment required for as many as 8 doors. Multiple enclosures can be installed throughout a building of any size to provide Access Control for the entire facility while keeping the total quantity of installed enclosures to a minimum.

The WideBody design provides very efficient use of wall mounting space, while it's low profile side elevation protrudes less than 100mm from the mounting surface.

Designed to suit a range of Integriti Products

- Integriti Access Controller (IAC) 3 or 8Amp SMART Power Supply
- Intelligent LAN Access Module (ILAM)

Integriti LAN Zone Expanders

- UniBus Expansion Devices
- Concept peripheral Devices

Features

- Key Lockable robust metal enclosure
- Designed for Access Control installations
- Houses all equipment required for up to 8 doors
- Space for 2 x 18Ah Lead Acid Batteries
- Low Profile design Size 595(L) x 512(W) x 95(D)
- 3 x 50x50mm conduit entry points
- 7 x 25mm round conduit entry points
- Discrete thru-wall cable entry via back panel
- Provision for dual front/rear tamper monitoring
- Includes Integriti equipment mounting plate
- Hinged Expansion Plate available (Part 999027)

Specifications

rnys	ICAI		
Enclos	sure Size	595(L) x 512(W) x 95(D)	
Cable	e Entry Points		
Тор	4 x 25mm Round	d Conduit Punch-outs	
	2 x 50x50mm Pu	nch-out (with 25mm round inset)	
Base	1 x 50x50mm Pu	nch-out (with 25mm round inset)	
	1 x Power Entry		
	1 x 25x50 IEC lea	d entry point (Entry plate included)	
Back	Through wall cab	ole entry behind main plate	
Power	Supply		
			-

Powered Versions: 3/8Amp - See the Integriti 3/8Amp PSU Datasheets for PSU Specifications

Ordering Options

995204PE8 WideBody Enclosure powered with SMART 8Amp PSU 995204PEEU8 WideBody Enclosure powered with SMART 8Amp PSU (Europe)* 995204PE3 WideBody Enclosure powered with SMART 3Amp PSU 995204PEEU3 WideBody Enclosure powered with SMART 3Amp PSU (Europe) 995204 WideBody Enclosure (Enclosure Only) 999027 2nd tier hinged expansion plate for WideBody Enclosure *Product not available in EU at time of printing



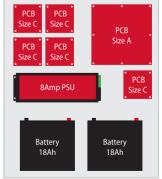


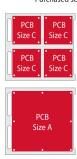
Scan here for more layout examples



Layout Options

Example 1











DATA SHEET **INTEGRITI** Rack-Mount Enclosure

DATA SHEET **INTEGRITI** DIN Rail Clips

The Inner Range Rack Mount Drawer provides a high-security tamper monitored 2RU rack mounting solution for Integriti system hardware.

It features a truly universal design that allows virtually all Inner Range system Controllers and LAN modules to be installed into a 19" rack equipment cabinet without restricting critical access to cabling, termination of connections or access for commissioning and maintenance purposes.

The Rack Mount Drawer is capable of housing up to two separate internal power supplies with two separate internal 12V, 9Ah sealed lead acid back-up batteries.

Cabling to the drawer is managed via a rear mounted cable tie-down tray with a selection of "knockout" style cable entry points. The mains power connection is via an industry standard IEC connector and the Ethernet network connection is made via a panel mounted RJ45 socket. All other cabling is routed and securely terminated inside the tamper monitored enclosure.

Servicing is made easy as the entire drawer slides out of the rack providing full installation and service access to all components - without taking the system offline.

Features

Drawer Features

- 2RU Sliding 19" Rack Mountable Drawer
- Universal PCB Mounting Plate and Battery Holders
- Sturdy metal drawer with sealed base and welded corners
- Tamper monitored ventilated metal cover
- Rear Cable Tie Down Tray
- Supplied with ball bearing runners to suit front rear mounting rail spacing of 520 to 740mm - adjustable

Rear Panel Connections and Cable Entry Routing

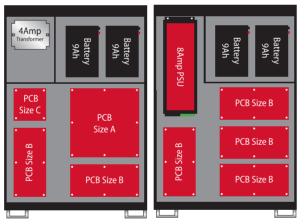
- 3 x 2-Way Circular Cable Entry Knockouts, 35mm or 64mm Supplied with cable entry bushing
- Ethernet Connection RJ45 Chassis Mount
- Mains Power Connection IEC 240Vac Mains power connector Fused
- Assisted Ventilation Provision for 60mm panel mount fan

Scan here for more layout examples:

Layout Options

Example 1

Example 2



Ordering Options

995220PE8 Rack Drawer powered with SMART 8Amp PSU 995220PEEU8 Rack Drawer powered with SMART 8Amp PSU (Europe)* 995220PE3 Rack Drawer powered with SMART 3Amp PSU 995220PEEU3 Rack Drawer powered with SMART 3Amp PSU (Europe) 995220PE2 Rack Drawer powered with 2Amp PSU 995220PEEU2 Rack Drawer powered with 2Amp PSU (Europe) 995220 Rack Drawer (Drawer Only) *Product not available in EU at time of printing

DIN Rail clips feature a universal design allowing many Inner Range circuit boards, including the T4000 Alarm Communicator and Inception Controller, to be mounted directly onto standard 35mm DIN rail.

DIN Rail clips can be used to mount the following Inner Range products.

- T4000 Alarm Communicator
- Inception Controller
- Integriti Size "B" & "C" PCB'S including:
- All Integriti UniBus PCB's
- Intelligent LAN Access Module (ILAM)
- Standard LAN Access Module (SLAM)
- 1 Door Access Module
- Integriti 8 Zone Expander
- Integriti 2A & 3A Power Supply's
- LAN Over Ethernet Device (CLOE)
- LAN Isolator
- Fibre Modem's
- Fire Door Release Relay Card

The DIN rail clip pack Includes

- 2 x DIN Rail Clips
- 4 x M3x35mm Screws to suit T4000 & Inception Products
- 4 x M3 Self tapping screws to suit general PCB mounting



Specifications Electrical Specification (3Amp Powered Version Only)

Mains Input:	240V AC. 50Hz
Power Supply Input:	16V AC @ 3A. (From Transformer provided)
Output Voltage:	13.8VDC +/-2%
Maximum Output Current:	3 Amps.
Output Ripple:	<100mV RMS max.@ full load.
Conversion Efficiency:	85%. approx.
Load Regulation:	+/- 500mV @ lout = 0.1A to 3.0A.
See separate PSU datasheets for sp	ecifications of 2Amp & 8 Amp models

Mechanical Specifications

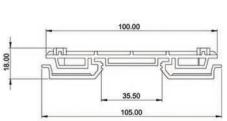
• Dimensions:	675mm including cable tray and front handles (cable tray 80mm, handles 35mm, drawer 560mm)
	Width: 420 mm. Height: 85 mm
Rear Cable Tray:	80mm x 420mm
Rack Mount:	Suit 19" Rack with front and back rail mounts
Runners:	Adjustable 600mm Ball Bearing runners to suit rail spacing between 520 - 740mm
Weight:	12 kg. (Powered Version)
Operating Environment:	0° to 50° Celsius (Ambient) 15% to 85% Relative humidity (non-condensing)

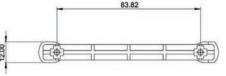
Ordering Options

999028 Din Rail Clip Pack (2 Clips)

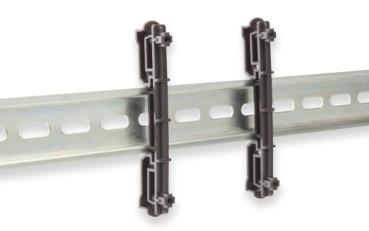






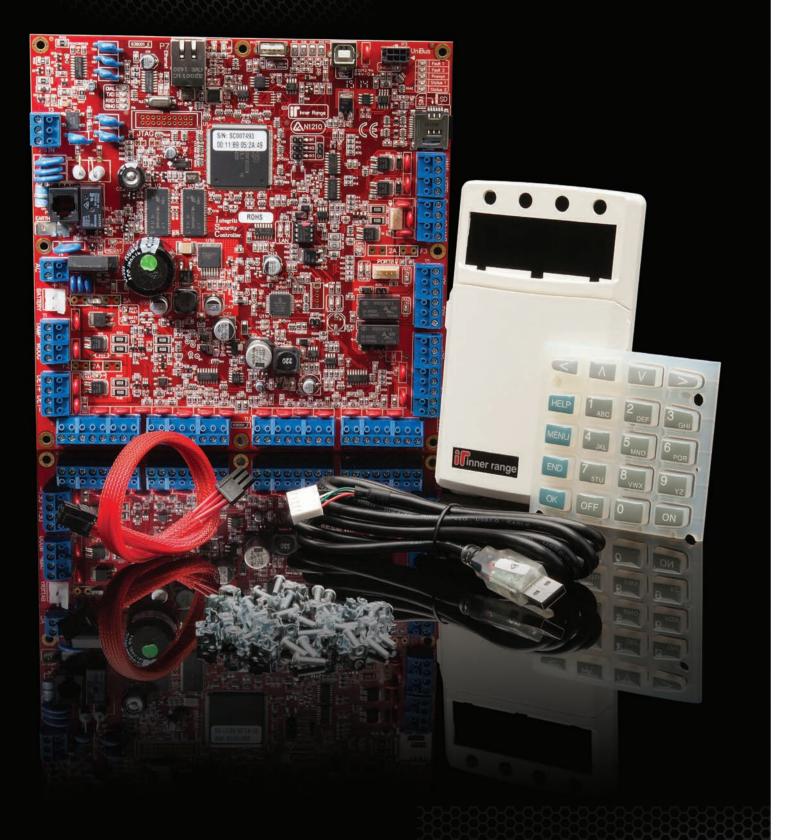








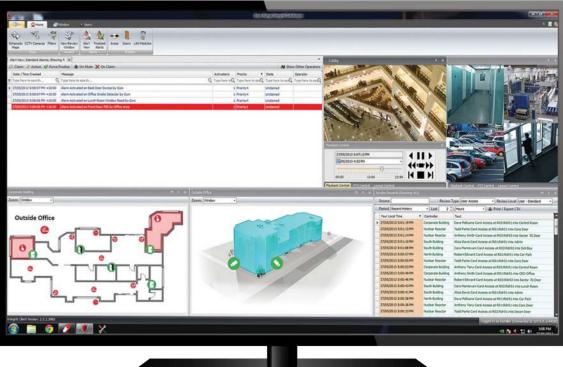
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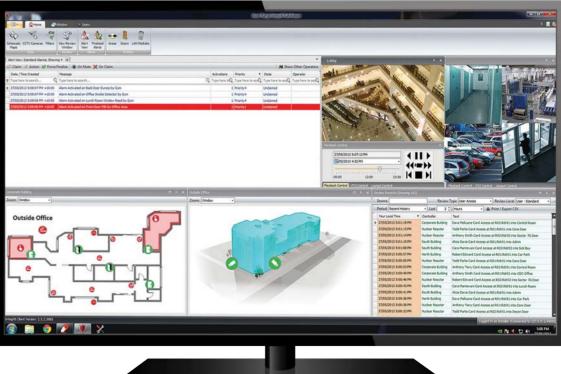


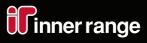
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integriti

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Product is available via the Inner Range Technology Partner Program.

Product scheduled for future release at time of publication.





Product is available via the Inner Range Technology Partner Program. Product scheduled for future release at time of publication.



Product

integriti

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Product



Our Integration Partners

Integriti



The Inner Range partner portfolio includes many of the world's leading security and building technology products. The Integriti Security Management System can be integrated with these otherwise disparate systems, in order to create a comprehensive and centrally managed integrated security solution.



SkyCommand



Control your security system and receive alarm notifications. Anywhere. Any time.

- Free iOS & Android apps available
- Multiple Site support Control all of your T4000 connected alarm panels
- Keyswitch arm/disarm functionality on popular alarm panels Paradox/Bosch/Hills/DSC and more
- High level area & output control on Inner Range Panels Home AUX/Named Action/User controllable
- Push notifications can be offered as a subscription service by a SkyCommand Dealer



Introducing the T4000 **Ultralite Communicator**

 Cost effective solution - \$79 ex. GST per unit Telstra CatM1 Network – 12 hour polling only Simple plug and play installation Works with most dialler capture alarm panels OTA firmware updates Upload/download capable

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ELECTRONIC









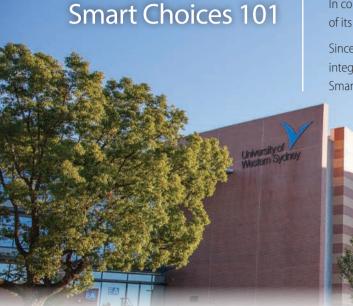
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INTEGRITI And it just makes good business sense ...

Integriti Professional Services



Western Sydney University deployed Integriti across their 5 campuses to better manage their security operations. The University administers the security for over 60,000 Users, across 3,000 Doors, 12,000 Detection Points and hundreds of buildings. In considering the various security systems in the market, WSU chose Integriti because of its capacity, flexible User Permission structures and cost-saving integration options.

Since its initial deployment, the scope of Integriti has been extended to include integration to the locker access system and main student administration database. Smart choices, continuing rewards.

Integriti, while feature complete, is at the early stages of its product development life-cycle. Your return on investment is optimised as the typical operational life-expectancy of an Inner Range system is measured in decades.



Integriti boasts powerful, yet intuitive, cardholder permission programming. The use of "Allow" and "Deny" functions greatly simplify system administration. Operator training, and associated costs are minimal.

Integriti includes a feature-rich suite of tools such as graphical maps, powerful reporting, card printing, alarm management, compliance based access control, email/SMS/pager communications and much, much more.



Mobile Apps for Apple and Android are available for remote monitoring and control.

The Integriti system enables cardholder location and activity information to be shared with Building Management Systems, Air-Conditioning and Lighting systems to reduce the energy costs associated with these services.

The Integriti system can share cardholder data with your company's Active Directory, Employee Database, Payroll System, Student Database or Booking System to reduce the labour costs associated with data entry and cardholder record management.

Integriti supports a wide range of non-proprietary cards, readers, locks, detectors and other peripheral devices. You are not locked into buying the manufacturers specific consumables or peripheral components. A choice of vendors gives you the competitive advantage.

Integriti is a non-proprietary system. You have a wide choice of competent security companies from which to choose. Refer to the Inner Range website for the details of recommended companies.

While Inner Range does make Software Maintenance Agreements (SMA's) available it does not impose annual licence fees or mandatory SMA's. Consider the Total Cost of Ownership over the system's lifetime when comparing an Inner Range system to others. You'll be pleasantly surprised. Inner Range stands behind the quality of its products. Our dealers and customers are fully supported by the Inner Range Professional Services team. A range of free and fee-based services are available, including:

- Software Maintenance Agreements
- **Remote Software Support**
- System Audits
- Pre-sales Design and Specification Assistance
- Programming and Configuration Support

Please contact Inner Range Professional Services for further details. professionalservices@innerrange.com +61 3 9780 4300

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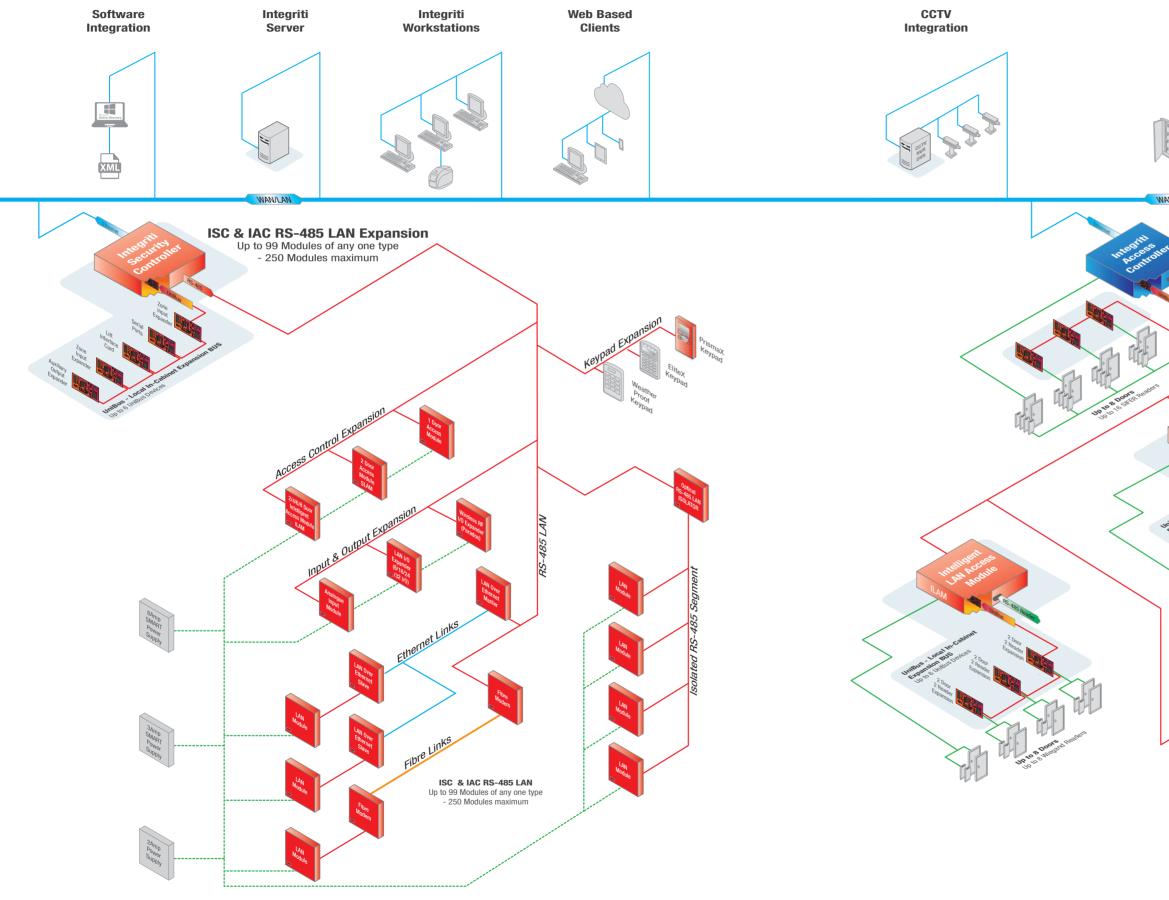




- **Complex Report Writing Service**
- System Migration Support
- **Custom High Availability Solutions**
- Custom Integration Solutions
- **Bespoke Development Services**



Integriti Deployment Architecture





Building Management System Integration KeyLocker Integration Lift **Biometric Reader** Intercom Integration Integration Integration ALIMAN Integriti Access Controller Deployment of local UniBus doors with RS-485 expansion of Standard and Intelligent Access Modules Integriti Security Controller Deployment of RS-485 Input and Output Modules Lift interfacing for up to 96 floors