

Integrator Product Catalogue

2015

**integrity**  
INTEGRATED SOLUTIONS

## Integrated Security, Access Control and Building Automation Systems

**Global**  
**National**  
**Local**



“Simply Brilliant”

**ir** inner range  
Intelligent Security Solutions

[www.innerrange.com](http://www.innerrange.com)



Inner Range began designing and manufacturing integrated Security and Access Control systems in 1988. Today there are more than 100,000 installed Inner Range systems delivering state-of-the-art solutions to corporations, government departments and institutions all around the globe.



The above logos are all registered trademarks of their respective entities.

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 own commitment to excellence.



**Australian Made  
and Owned**

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.



6-15

Software



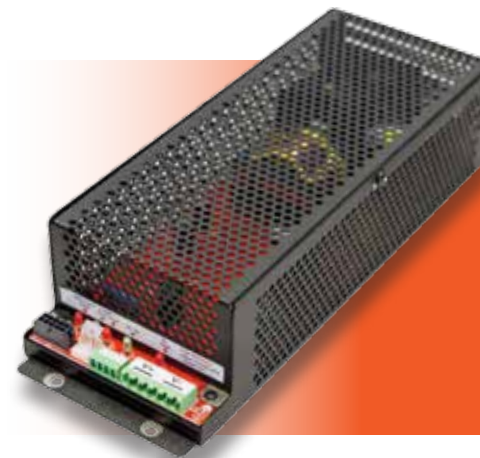
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## Amazing Integriti Technology

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.

Just like its famous predecessor, the Concept 4000, Integriti has set new industry standards and has the capacity to offer real solutions in today's exciting yet demanding technology environment.








With fast processors and large memory capacity, Integriti hardware is natively IP and ready to deliver on its promises. Integriti software has been developed from the ground up and features a complete suite of management tools. The software design adheres to current I.T. industry best practices, empowering system administrators to leverage the very latest computer hardware and virtual machine environments.

## integriti Introduction for System Integrators

Integriti is an IP connected integrated Access Control and Intruder Detection system. Integriti seamlessly scales from small commercial buildings through to large multi-campus institutions that span the globe.

Integriti also features a vast array of powerful interfaces to third party systems. 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.

### Features at a glance ...

-  Modern design, intuitive and simple to use.
-  Build cardholder profiles by assigning multiple permissions with simple "Allow" or "Deny" functions.
-  Complete alarm management with powerful automated actions.
-  Rich graphics with interactive floor plans and maps.
-  Forensic audit trail recording every programming change with ability to "roll-back" any change.
-  Email, text messaging and pager communications.
-  Easy-to-use reporting such as Time on Site, Muster and detailed commissioning reports.
-  Integration with Active Directory, HR, payroll and other database applications.
-  PhotoID card design and printing.
-  Client/Server architecture, fully compatible with modern computing platforms using Microsoft SQL databases.
-  Integration to a wide range of third party systems.
-  Plug-and-play UniBus for easy in-cabinet expansion.
-  Upgrade firmware for Controllers and LAN modules over-the-wire.
-  Backwardly compatible with Concept LAN modules.

### 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>

# Software

## The Integriti Technology Platform

### 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.

### Scalability

Integriti is perfect for small sites through to large multi-campus 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.





### 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.

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



### Use the Integriti system to:

-  Monitor and control the movement of all personnel and vehicles in the facility. Protect critical assets and manage the safety of staff and visitors.
-  Easily assign access permissions mandating who can go where and when, including visitor access.
-  Manage the reporting of security alarms and audit their responses.
-  Ensure compliance with business systems and government regulations.
-  Respond to emergency situations, lockdowns and alerts.
-  Manage OH&S liability by utilising competency based access control.
-  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 Security Management System, integrate a variety of security sub-systems, such as CCTV, Biometrics, Mobile Duress, Lighting, Air-Conditioning, Intercom, Fire and many more.





The Integrity System Management Suite is a true cutting-edge solution. Featuring the very latest technologies, Integrity has been designed from the ground up with an innovative and user-friendly design as its core focus.

The architecture of the Integrity platform has been crafted such that additions, enhancements and further integrations are achieved with minimal development time. In a market demanding integration to so many different types of applications, systems and services, you will find yourself saying, "Yes, Integrity can do it!" more often.

Integrity Professional offers everything your customer will need for complete system management. Integrity includes two applications;

- Integrity GateKeeper for everyday control and monitoring
- Integrity System Designer for system programming and configuration.

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" or "Deny" functions.

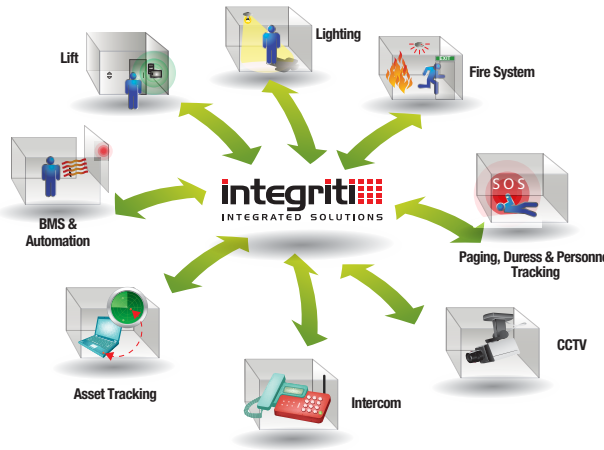
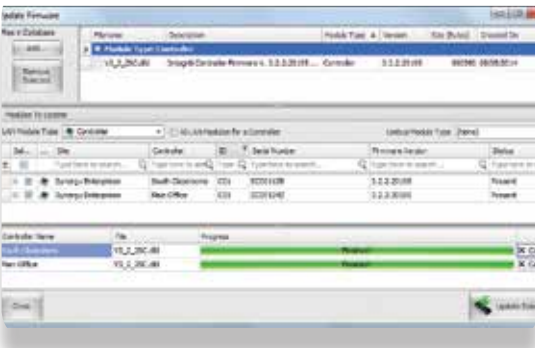
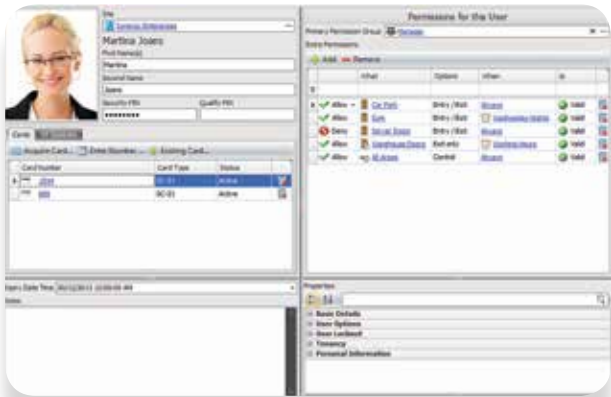
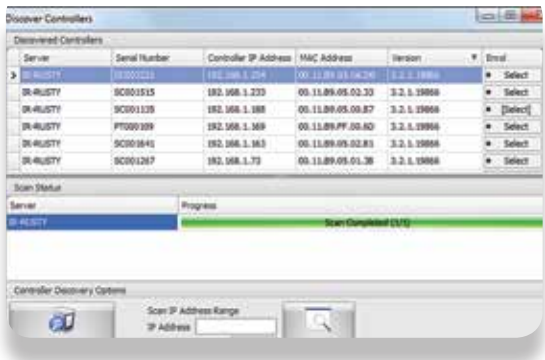
Integrity Professional caters for even the largest of sites. Integrity may be deployed on any number of remote sites. Individual sites retain their functional autonomy, whilst system users and permissions are managed globally across the entire organisation. Integrity Professional also supports a wide range of integration options to existing HR systems and a variety of third party products.

An Express version of Integrity is available for smaller single-controller sites. Express is a great solution for sites that do not need the advanced features of the Professional version.

An installer commissioning version of Integrity is also available for security technicians who are installing and commissioning Integrity systems. Integrity Commissioning Software (CS) is provided free of charge to trained Inner Range security technicians.

Software features at a glance ...

- ✓ Automatic controller discovery with one-click enrollment.
- ⌚ 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 maps.
- 📋 Forensic audit trail recording every programming change with ability to "roll-back" any change.
- 📱 Email, text messaging and pager communications.
- 📊 Easy-to-use reporting such as Time on Site, Muster and detailed commissioning reports.
- 🗄️ Integration with Active Directory, HR, payroll and other database applications.
- 📶 Upgrade firmware for all Integrity 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 Integrity as an over-arching Security Management System for complete control of security and facility services.
- 🧩 Complex automation logic now a breeze.







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

<b>User/Cardholder Management</b> 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.	<b>Data Importation</b> Import cardholder data in a variety of file formats from third party systems.
<b>Basic Reporting</b> 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.	<b>System Health Monitoring</b> Monitor the health of both the Integriti hardware and software. Proactive notifications can alert security operators and security contractors if maintenance is required.
<b>Schematic Maps</b> Rich graphics with interactive floor plans and maps. Effortlessly create maps using the built-in library of animated icons.	<b>SkyTunnel Connectivity</b> SkyTunnel is an industry-first cloud based service that provides hassle free connectivity of Integriti hardware, software and mobile apps.
<b>Security and Alarm Management</b> Complete alarm management with powerful automated actions.	<b>Intuitive Design</b> 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.
<b>Operator Permissions</b> Manage the operators that use Integriti software. Easily customise and define their access permissions levels with fine control.	<b>System Designer and GateKeeper Applications</b> 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.
<b>Audit Trail</b> The amazingly powerful forensic audit trail records every programming change made by all operators and provides the ability to "roll-back" to any change in the past.	<b>Modern Client/Server Architecture</b> Integriti employs a client/server architecture and is fully compatible with the latest computing platforms and Microsoft SQL databases.

### 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 Security Controller (ISC)
3. Connection of the first 16 Doors



### System Expansion Options

*Additional software licenses may be applied to expand system dimensions.*

#### Additional Workstation/Client (FIXED) - 996910

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

#### Additional Workstation/Client (FLOATING) - 996911

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

#### Additional ISC Controller - 996912

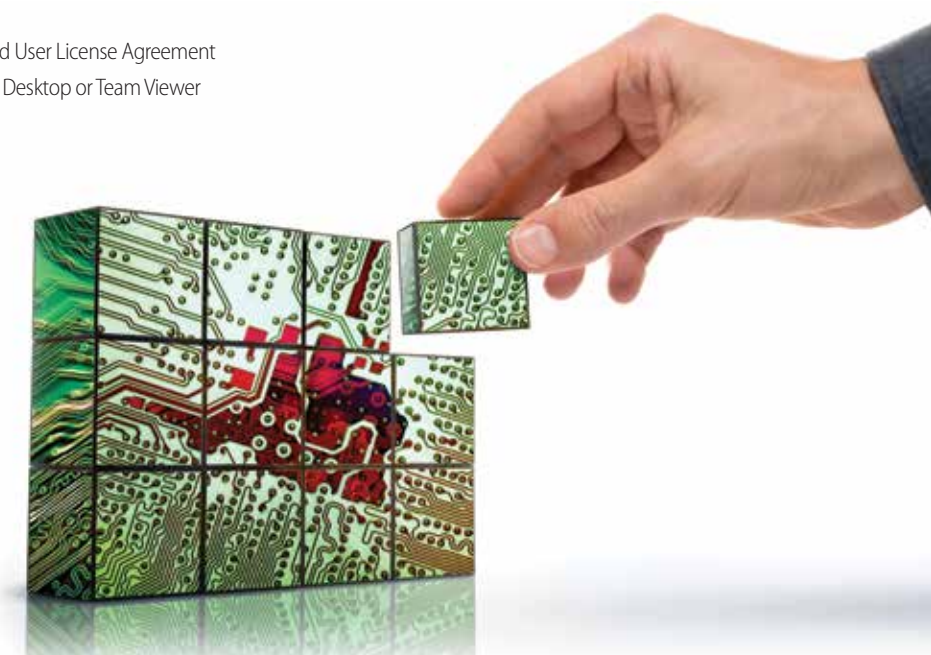
This license allows additional Integriti Security Controllers to be connected to the Integriti server.

#### Additional Door - 996940

The base package of Integriti Professional includes the connection of the first 16 Doors. Additional Door licenses 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 license is required to comply with the terms of the Integriti End User License Agreement (EULA) if remote desk top applications such as Windows® Remote Desktop or Team Viewer etc. are being used with the Integriti software.





## Optional Features

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



### Smartphone-Server Interface - 996926

This license 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 license is required for each Controller that is online.\*

Each Smartphone-Server interface license 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 licensed separately.

**Please see page 22 of the Integrator Product Catalogue for Smartphone-Controller Interface.**

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

### CCTV Integration - Initial 32 Cameras - 996920

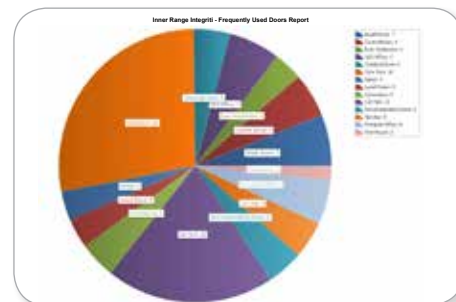
The CCTV Integration license allows various CCTV systems to be integrated into Integriti software and is licensed on a per camera basis. This initial CCTV Integration license allows integration of up to 32 cameras, irrespective of the CCTV brand chosen. Please see Inner Range website for a list of compatible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

### CCTV Integration - Extra 8 Cameras - 996921

This license allows expansion of the CCTV integration by an additional 8 cameras per instance of this license. The Integriti software keeps a running comparison of all cameras and camera licenses active on the system.

### 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 many 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

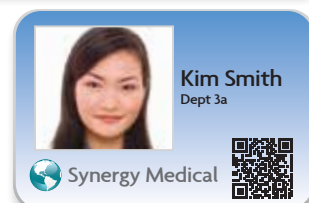
This license allows messages to be sent from the Integriti server, either manually or automatically, using the various communication paths available.

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



## 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 license is intended to facilitate the implementation of various OH&S 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 - 997925

This license 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 to 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.

### Bi-Directional Device Integration - 996932

This software module facilitates a machine to machine communication channel which can be used for integration to a variety of different products. Inner Range has implemented a general purpose pathway into the Integriti software such that to achieve integration to third party devices only requires work at the third party end of the path. To date, this license is currently being used for the following integrations:

- Jacques Intercoms
- Stentofon Intercoms
- Commend Intercoms

Other products will be added as required in the future. For IIS/Kenwei Intercom integration - see UniBus UART on page 39 of Integrator Product Catalogue.

### Dynamic User Import Module (DUIM) - 996955

This license allows for one or more 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.

### Active Directory Integration (Users) - 996957

This license 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. This functionality is single directional with the Windows database always as master. This effectively means that Users are only entered into one system saving time and improving data consistency.

### Active Directory Integration (Operators) - 996958

This license 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 license 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.



## Enterprise Optional Features



### Schindler PORT Lift High-Level Interface - 996933

This license 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 licenses. Please consult with the Inner Range pre sales team for any High Level lift inquiries. Also see page 23 of the Integrator Product Catalogue for other lift vendors.*



### KeyLocker Integration - 996934

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

- C.Q.R.iT (by CIC Technology)
- KeyWatcher (by Morse Watchmans)



### Visitor Management Integration - 996935

This license 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. 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



### Active User Rotation Module (AURM) - 996956

This license is used when there are more users in the software than can be accommodated in the hardware Controllers (i.e. over 100,000). This license will only operate if all of the Controllers connected to the Integriti software have already been upgraded to level 4 smart card permissions. If this license is deployed and a user presents their card at 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.

*A hardware Controller solution capable of storing up to 500,000 users at hardware level can be custom engineered if required for specific projects.*



### XML Integration

An XML license 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 Mark-up Language) is an IT industry standard language/protocol for the transmission of data between software applications.

An XML interface is an extremely powerful tool allowing other software developers a unique opportunity to use the Integriti software for a variety of purposes. For this reason the XML license is not available to the general market. XML licenses can only be purchased after a product partner agreement has been executed by Inner Range and the potential developer. An application to become a product 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 license issued can only be used for the purpose defined in the partner agreement.

**XML Interface - READ - 996950** This license allows a third party software application to directly read data in the Integriti database.

**XML Interface - WRITE - 996951** This license allows a third party software application to write data directly into the Integriti database.

**XML Interface - CONTROL - 996952** This license allows a third party software application to control entities in the Integriti database.

## 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 options 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 Security Controller (ISC)
3. Connection of the first 16 Doors



## 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.



### 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.



### 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.



### SkyTunnel Connectivity

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



### 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.



### 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.



### Operator Permissions

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



### Upgrade to Integriti Professional - 996905UPG

Express can be upgraded to Integriti Professional if required - The upgrade option allows the full feature set of Integriti Professional.



### Audit Trail

The amazingly powerful forensic audit trail records every programming change made by all operators and provides the 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.





Integriti Software Comparison

Features	Pro	Express	CS
User Management, System Programming, System Status, Programming History (Audit Trail)	✓	✓	✓
Hassle Free IP Connection with SkyTunnel. <i>a.</i>	✓	✓	✓
Software Operator Permissions	✓	✓	✗
GateKeeper – A Dedicated Application for Daily End User Operations	✓	✓	✗
Support for Multiple Workstations / Clients. <i>b.</i>	✓	✗	✗
Support for Multiple Controllers. <i>b.</i>	✓	✗	✗
Schematic Graphical Maps	✓	✗	✗
Alarm Management	✓	✗	✗
Smartphone-Server Interface. <i>b.</i>	✓	✗	✗
Advanced Reports. <i>b.</i>	✓	✗	✗
Communicator - Email, SMS & Pager. <i>b.</i>	✓	✗	✗
PhotoID Card Design. <i>b.</i>	✓	✗	✗
User Qualifications Manager. <i>b.</i>	✓	✗	✗
Advanced Alarm Management, Alarm Escalation, Response Plans & Operator Challenge. <i>c.</i>	✓	✗	✗
Active User Rotation Module (AURM). <i>b.</i>	✓	✗	✗
Integration Features	Pro	Express	CS
CCTV Integration. <i>b.</i>	✓	✗	✗
Bi-Directional Device Integration. <i>b.</i>	✓	✗	✗
Intercom Integration. <i>b.</i>	✓	✗	✗
Dynamic User Import Module (DUIM). <i>b.</i>	✓	✗	✗
Active Directory Integration (Users and Operators). <i>b.</i>	✓	✗	✗
Event Review I/O Communications. <i>b.</i>	✓	✗	✗
Lift Integration. <i>b.</i>	✓	✗	✗
KeyLocker Integration. <i>b.</i>	✓	✗	✗
Visitor Management Integration. <i>b.</i>	✓	✗	✗
XML Integration (Technology Partner Program). <i>b.</i>	✓	✗	✗
Upgradeable to Integriti Professional. <i>b.</i>	-	✓	✗
Software Dimensions	Pro	Express	CS
Number of Controllers Supported. <i>d.</i>	1 ~ No Limit	1	No Limit
Number of Simultaneous Controller Connections. <i>d.</i>	No Limit	1	1
Number of Doors Supported	16 ~ No Limit	16	240
Controller Memory Level Expansions Supported	All	All	All <i>e.</i>
Permitted Software Use	End Users	End Users	Installers Only

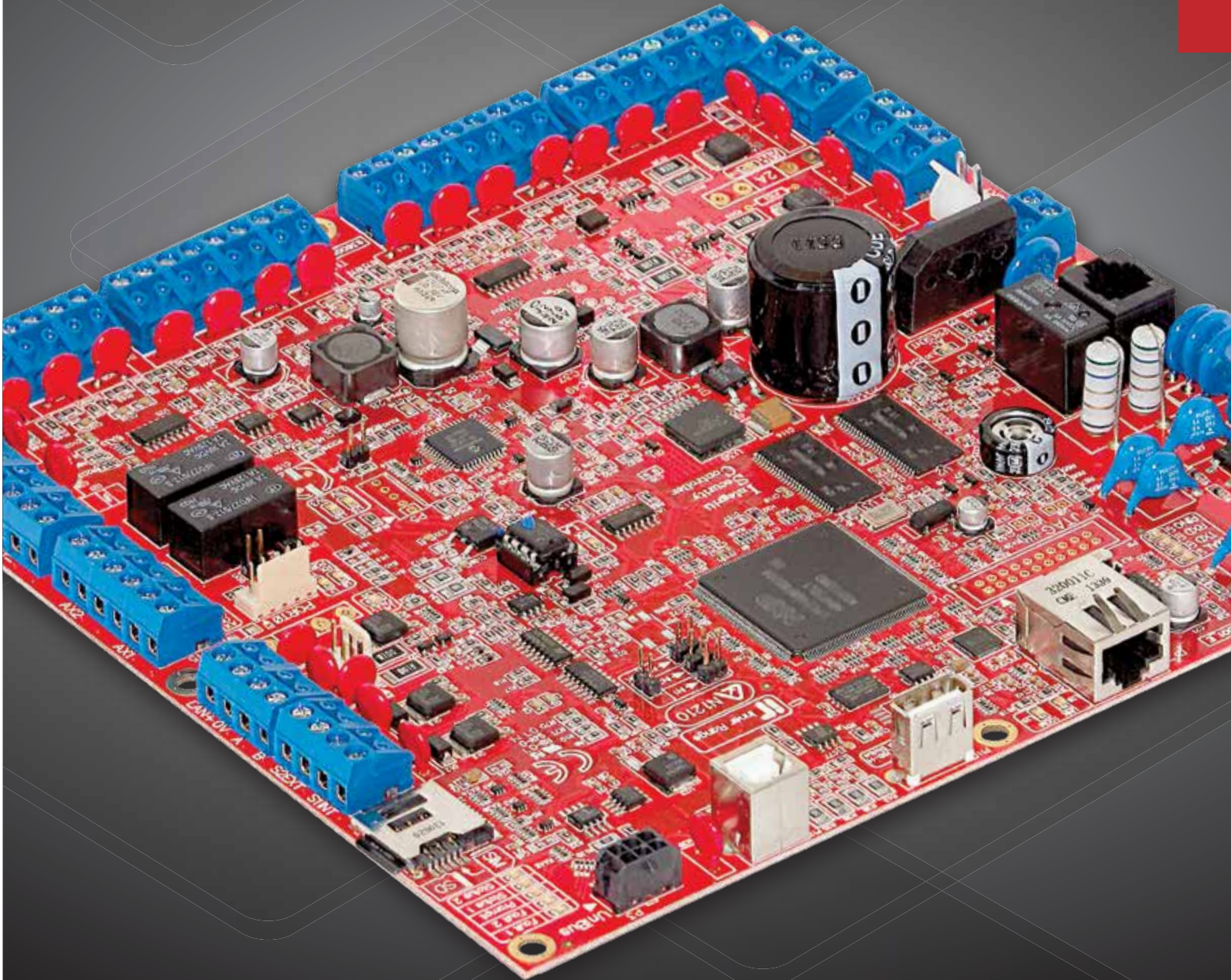
*a.* - SkyTunnel provides non permanent connections between Integriti Controllers and Integriti software.

*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 Grouping, 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 license removes this restriction and permits remote connections from CS software for any level smart card.





## Three main hardware components make up an Integriti system:

### 1 - Controllers

#### 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 and 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.

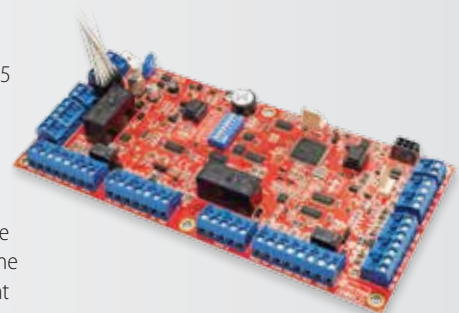
The flexible, modular design of the ISC's system parameters and Sub-LAN architecture allows a single standalone controller to be expanded to form a network of IP or RS-485 expansion modules supporting up to 100,000 Users, 3,000 Zone Inputs, over 3,000 Outputs, 250 Areas and over 1,000 Card Readers and 240 Doors. Peer to Peer communications between ISC controllers is also possible and further options are available where more than 100,000 users are required.



#### 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 is only compatible with the ISC.

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.

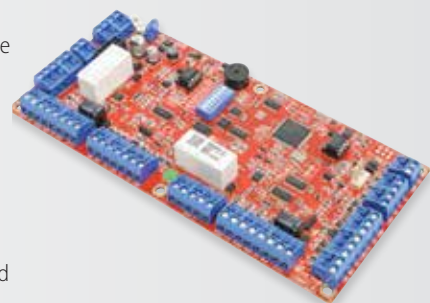


#### Integriti Standard LAN Access Module (SLAM)

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.

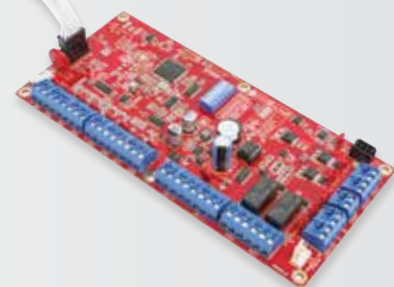
The SLAM offers cached functionality via its on board database to provide offline access control operation for up to 2,000 user cards if communications to the master controller are lost. Cache expiry time for the module can be selected ranging from 1 hour to 4 months. In addition, each user has an option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



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

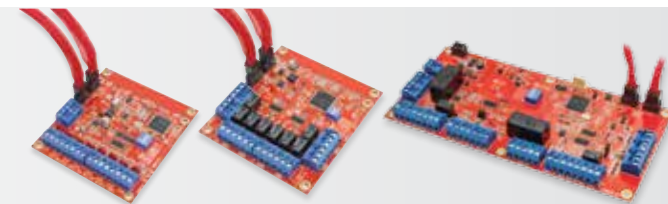
The Integriti 8 Zone LAN Expander Module connects directly to the Integriti RS-485 LAN and provides an additional 8 Zone inputs, 2 Auxiliary outputs and 2 Siren drivers (Siren drivers fitted from PCB revision 'B'). Up to 99 Zone Expander Modules can be connected to the Integriti RS-485 LAN or via IP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



#### UniBus Expansion

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



#### Integriti Prisma Keypad

The Integriti Prisma 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 Prisma Keypad.



#### Inner Range SIFER Smart Card Reader

The SIFER Smart Card Reader is a multi-drop RS-485 reader for use with MiFare based cards, including the new high security Inner Range DESfire EV1 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 in series to the dedicated RS-485 reader port on the Integriti Intelligent LAN Access Module (ILAM) or the new 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 are IP 67 rated and available with site specific encryption keys.

\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)



#### 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.

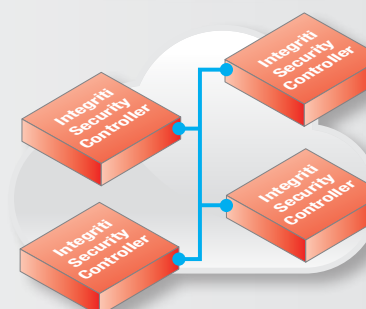
No more wasted hours configuring routers and ports.

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.



#### Advanced Peer-to-Peer Functionality

Integriti controllers support cross-controller alarm reporting as standard. The Integriti server is not used in the process, allowing Peer-to-Peer alarm transmissions to continue to operate, even if the Integriti server is offline. One or more PSTN lines or IP communication devices on specific controllers may be shared across multiple controllers. Each controller may be configured to send alarms to the nominated controller for forwarding to the relevant central station, if available, or to other nominated controllers as a backup, in the event that the primary alarm controller is not available. Advanced Peer-to-Peer functionality, Global Anti-Passback and Cross-Controller logic mapping may be enabled via the addition of an "Advanced Peer-to-Peer Functionality" license key on each controller.





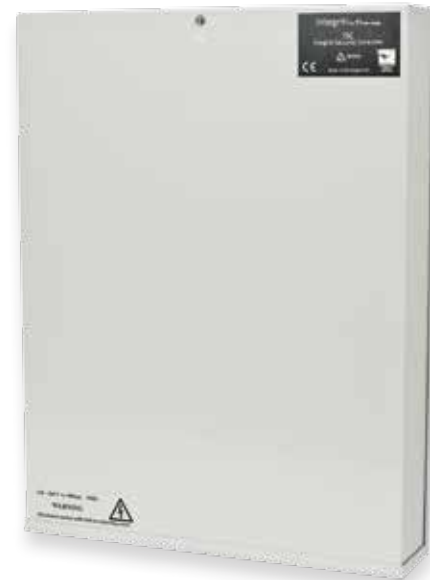
The Integriti Security Controller (ISC) is an IP based master controller for the Integriti modular hardware system. Equipped with 16 Zone Inputs, 2 Auxiliary Relay Outputs, Power Supply, Ethernet Port, modem, internal and external siren outputs, the ISC can be used both stand-alone or expanded further via its UniBus and RS-485 Sub-LAN ports. The flexible, modular design of the ISC's system parameters and Sub-LAN architecture allows a single stand alone controller to be expanded to form a network of RS-485 expansion modules of up to 100,000 Users, 3,000 Zone Inputs, over 3,000 Outputs, 250 Areas/ Zone Partitions and over 1000 card readers and 240 Doors.

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 with UniBus In-Cabinet Expansion

- Up to 32 Zone Inputs
- Up to 32 Auxiliary Outputs (Relays)
- Up to 8 RS-232 / RS-485 Serial Ports

Further expansion and functionality is realised with the addition of expansion modules which are connected to the Integriti Security Controller via the RS-485 Sub-LAN (or via IP using LAN over Ethernet modules - Part. 995093 see page 49 of Integrator Product Catalogue).



### Features

#### ISC On board Features

- RJ45 - 10/100 Ethernet Port
- RS-485 Sub-LAN
- USB Master & Slave Ports
- UniBus In-Cabinet Expansion Interface
- Multipath-IP / GSM STU Port (Port Zero RS-232)
- 16 Zone Inputs - Multistate or Analogue
- 2 Auxiliary Output Relays
- Dedicated Watch Dog Output
- Dedicated Tamper Input
- Internal & External Siren Outputs
- RJ-12 PSTN Dialler/Modem Connection
- 6 Terminals supplying 13.75VDC Detector Power
- Intelligent Power Control via Smart Fuses
- 32 Bit ARM CPU with Real Time Clock
- 64 MB RAM
- 2 GB Micro SD Memory
- Smart Card Slot (Smart cards are used for setting system dimensions)
- Firmware Upgrade via USB, LAN or Software

#### 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 Users - Expandable to 100,000
- On board Review Events - Expandable to 100,000
- Ports - RS-232 / RS-485 Serial Ports - Expandable to 8 with UniBus UART

#### Functionality

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

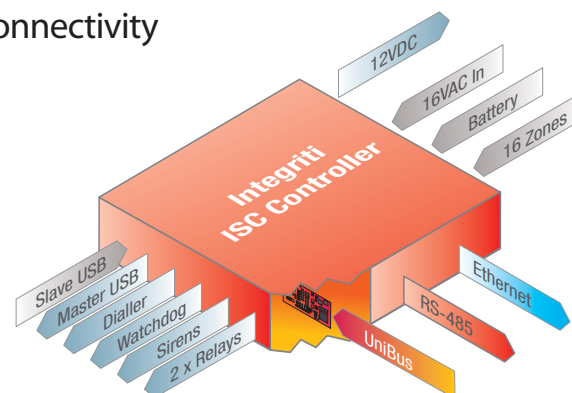
#### Ethernet Connected Services

- Connectivity to Integriti Software
- SkyTunnel® Cloud Services & Smart Phone connectivity
- Peer to Peer communications
- Automation Interface
- BMS / HVAC Integration
- EMS / Lift Access Control Integration

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
2 Door / 2 Reader Expander	0	3	0	3
16 Floor Lift Interface	6	6	6	6
RS-232/RS-485 UART	4	4	0	0
Analogue Expander	6	0	6	0
2nd Network Interface Card	1	1	0	0

\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

### Connectivity



### System Parameters

#### SMART Card Options

##### Part Number & Description

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

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

**996020L2 - Level 2 SMART Card**  
80 Doors, 600 Zones, 10,000 Users, 30,000 Events

**996020L3 - Level 3 SMART Card**  
160 Doors, 2,000 Zones, 65,000 Users, 60,000 Events

**996020L4 - Level 4 SMART Card**  
240 Doors, 3,000 Zones, 100,000 Users, 100,000 Events

#### Integration & Feature Options for SMART Cards

Please refer to the Integriti SMART Card Data sheet for details, pg 21-23 Integrator Product Catalogue.

Integriti Mobile  
Get the App for  
Tablet & Phone

Available on the  
App Store

ANDROID APP ON  
Google play



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

### Specifications

#### Physical

Enclosure Dimensions:	460(L) x 358(W) x 85(D) (mm)
PCB Dimensions:	200(L) x 200(W) x 45(D) (mm)
Weight:	8.2 k.g. (Includes mains transformer, 7AH battery and cover)
Installation Environment:	0°C - 50°C @15% - 90% Relative humidity (non-condensing)
Cabinet Battery Bracket:	To suit 12V 7AH sealed lead acid battery

#### Electrical

Power Supply Type:	Type A (EN50131-1)
Transformer Input Voltage:	240V AC -10% / +10% 50Hertz
Transformer Output:	16.5V AC. 50 Hertz
Current Consumption:	Maximum 500 mA from 240V AC Source
Fuse Protection:	Separate AC mains input fuse. 1.0 AMP Slow Blow M205 (20mm)
PCB AC Input Voltage:	16 to 18V AC. 50/60 Hertz
Battery Charger Output:	13.75V DC -0.15/+0.05 V (AC power required)
12V, Sealed Battery Capacity:	Use 7.2AH or 18AH Lead Acid Type: Max 18AH
Battery Input Fuse:	5 Amperes
Low Battery Alarm:	< 11V DC +/- 100mV
Deep Discharge Protection:	Activates at 10.4V +/-100mV. Restores at 12.4V +/- 100mV
LAN "POS" & DET+:	Output Voltage: 13.75V DC -0.15/+0.05 V (When AC power Present)
LAN "POS" & DET+ Smartfuse trip current:	2 Amperes
Maximum Ripple:	At maximum ancillary load current: < 200mV P-P / 75mV RMS
Low DC Voltage Alarm:	< 11V DC +/- 100mV
Siren Drivers:	Each capable of driving a 4 Ohm speaker (or 2 x 8 Ohm in parallel)

#### RS-485 & UniBus Parameters

UniBus In-Cabinet Expansion:	Up to 6 UniBus devices
RS-485 Sub-LAN:	Up to 250 RS-485 Sub-LAN Modules (maximum of 99 of any one type)

#### Current Consumption

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

#### Compliance

Electrical

Environmental



### 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



Integriti ISC SMART Cards  
996020 - Blank SMART Card (Serialized)  
996020L1 - Level 1 SMART Card  
996020L2 - Level 2 SMART Card  
996020L3 - Level 3 SMART Card  
996020L4 - Level 4 SMART Card

Smart Card Levels

Smart Cards are employed in Integrity Security Controllers (ISC) as a means of setting the Controller's "Operating Level" dimensions and/or enabling various additional hardware feature options. By default, the Integrity Security Controller does not include a Smart Card. A Controller without a Smart Card will operate at a default level of 16 Doors, 100 Zones, 200 Users and 10,000 Events.

Level options for the Integrity Security Controller	Level upgrades for the Integrity Security Controller
<div><div><div>ISC Level 1 - 996020L1</div><div>40 Doors, 200 Zones, 2,000 Users, 20,000 Events</div></div></div>	<div><div><div>ISC Level 0 to Level 1 - 996020U01</div></div></div>
<div><div><div>ISC Level 2 - 996020L2</div><div>80 Doors, 600 Zones, 10,000 Users, 30,000 Events</div></div></div>	<div><div><div>ISC Level 1 to Level 2 - 996020U12</div></div></div>
<div><div><div>ISC Level 3 - 996020L3</div><div>160 Doors, 2,000 Zones, 65,000 Users, 60,000 Events</div></div></div>	<div><div><div>ISC Level 1 to Level 3 - 996020U13</div></div></div>
<div><div><div>ISC Level 4 - 996020L4</div><div>240 Doors, 3,000 Zones, 100,000 Users, 100,000 Events</div></div></div>	<div><div><div>ISC Level 1 to Level 4 - 996020U14</div></div></div>
	<div><div><div>ISC Level 2 to Level 3 - 996020U23</div></div></div>
	<div><div><div>ISC Level 2 to Level 4 - 996020U24</div></div></div>
	<div><div><div>ISC Level 3 to Level 4 - 996020U34</div></div></div>

Where a Controller already has a Smart Card fitted, the level can be upgraded or additional feature options applied at any time. The Smart Card does not need to be physically replaced, a license is simply applied through the software, or locally via the keypad.

It is important to remember that users are global (unlike local entities, such as doors, zones, events etc). Therefore, where a system has two or more controllers, each controller on that system must be fitted with a Smart Card at the required level to accommodate the total number of users in the system.

Optional Features

- Level 0 Smart Card (Blank Card) - 996020

The level 0 Smart Card can store any of the optional feature licenses 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.
- ISC Allow CS Remote Connection (Subscription) - 996029

The Allow CS Remote Connection license allows an Integrity Security Controller fitted with a level 1 or higher Smart Card, to be remotely managed by a security installer using the Integrity 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 license is an annual subscription.
- Smartphone-Controller Interface - 996021

This license allows Apple or Android devices using the Integrity Mobile App to connect to an Integrity Security Controller. Each Smartphone-Controller interface license 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 Smartphone-Server interfaces work independently of each other and are licensed separately. Please see page 11 of the Integrator Product Catalogue for Smartphone-Server Interface.

C-Bus Lighting High-Level Interface - 996027

This license will allow integration of a Clipsal C-Bus lighting control system to an Integrity Security Controller. 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 ISC and the Clipsal Network Interface (CNI).

Building Management System High-Level Interface - 996022

The Building Management System Interface allows an Integrity Security Controller 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.

BACnet/IP, Modbus, KNX Integration - 996028

This licence allows an Integrity Security Controller (ISC) to integrate with an Inner Range factory supplied Building Management System (BMS) gateway device. 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. Protocols available at the time of writing are BACnet/IP, Modbus and KNX.
- 
- 
- 
- <http://www.innerrange.com/pd/Integrity-System/Mobile-Applications/Integrity-Mobile>
- ir inner range
- ir inner range





Optional Features



Elevator Management System High-Level Interface - 996023

This license allows an Integrity Security Controller to integrate with a variety of lift manufacturers. This license 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 license in the Integrity Software - see page 13 of the Integrator Product Catalogue)



High Security Fence IP High-Level Interface - 996025

This license will allow integration between an Integrity Security Controller and a high security fence system such as Forcefield or SabraFence products as manufactured by Australian Security Fencing. The integration allows the fence system to be monitored and controlled directly from the Integrity Software. Dynamic fence icons may be used to graphically represent fence zones and other fence objects within Integrity's software schematics.



Advanced Peer-to-Peer Functionality - 996030

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

1. **Controller to Controller alarm reporting.** Enables alarms to be relayed to monitoring stations etc. via the communication device on another Controller.
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.

Controller to Controller alarm reporting is included as standard in all Integrity Controllers. The Global Anti-Passback and Cross-Controller logic mapping features require an Advanced Peer-to-Peer license key in each Controller to enable either or both of these features.



Virtual Expander Modules (Per Module) - 996026

The Virtual Expander license enables virtual expander modules to be added to an Integrity Security Controller and is licensed 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 physically install expander modules where inputs and outputs are only used for logic control purposes.



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

This license will allow Assa Abloy Aperio or Salto Sallis doors to be integrated with the Integrity system hardware and is licensed on a per door basis. Up to 240 Aperio or Salto Sallis doors can be integrated on each Integrity Security Controller, with up to 8 doors per Intelligent LAN Access Module, or 2 Aperio doors per Standard LAN Access Module.

Integrity Controller	Zone Inputs	Aux	Doors	Readers	Power Supply	On Board Cardholders	On Board Event Buffer
Integrity Security Controller (ISC)	16 Expandable to 32 Via UniBus. 3,000 Via LAN	2 Expandable to 32 Via UniBus. 3,232 Via LAN	240 Via LAN	480 Via LAN	2Amp On Board	200 Expandable to 100,000	10,000 Expandable to 100,000

Integrity LAN Modules	Zone Inputs	Aux	Doors	Readers	Power Supply
Intelligent LAN Access Module (ILAM) (Also used for Aperio & Salto Sallis integration)	Door Zone Inputs Per Door: Reed, Tongue, REN, REX & ARM	Door Auxiliary Outputs Per Door: Lock, DOTL, Valid & Invalid	2 Expandable to 8 Via UniBus. Or up to 8 Aperio or Salto Sallis doors connected via reader RS-485 LAN	16 SIFER Readers or 2 Wiegand Readers Expandable to 8 Via UniBus. Or up to 8 Aperio or Salto Sallis readers	Optional 2, 3 or 8Amp Via External PSU Connector
Standard LAN Access Module (SLAM) (Also used for Aperio integration)	Door Zone Inputs Per Door: Reed, Tongue, REN, REX & ARM	Door Auxiliary Outputs Per Door: Lock, DOTL, Valid & Invalid	2 standard doors or 2 Aperio doors connected via reader RS-485 LAN	4 SIFER Readers or 2 Wiegand Readers or 2 Aperio Readers	Optional 2, 3 or 8Amp Via External PSU Connector
8 Zone Expander	8 Expandable to 32 Via UniBus	2 Expandable to 32 Via UniBus	-	-	Optional 2, 3 or 8Amp Via External PSU Connector
Prisma Keypad	-	16 (8 Virtual, 8 LED's)	-	-	From RS-485 LAN or External PSU

Integrity UniBus Modules	Zone Inputs	Aux / Ports / Other	Doors	Readers	Power Supply
UniBus 8 Zone Expander	8	-	-	-	Powered Via UniBus
UniBus 8 Aux Relay Card (Lo Current)	-	8	-	-	Powered Via UniBus
UniBus 2 Port RS232 / RS-485 UART	-	2x RS232 / RS-485	-	-	Powered Via UniBus
UniBus 2 Door/2 Reader Interface Card	8 Door Inputs + 2x ARM	-	2	2 (Wiegand) or 4 SIFER Readers via host module	Powered Via UniBus
UniBus Lift Button-Feedback Interface	-	16 Lift Buttons	-	-	Powered Via UniBus
**UniBus Additional Ethernet Port	-	RJ45 Ethernet Port	-	-	Powered Via UniBus
**UniBus Advanced Analogue Input Card	4	-	-	-	Powered Via UniBus

Power Supplies	Supply Voltage	Output Current	Dedicated Battery Charge Current	Output Voltage	PSU & Battery Monitoring
2Amp Power Supply	16V AC	2Amp	Included in total Output Current	13.75VDC	Low Level Outputs
3Amp SMART Power Supply	16V AC	3Amp	Included in total Output Current	13.75VDC	Via any Module with EXT PSU Connector
8Amp SMART Power Supply	240V AC 50Hz	6.5Amp + 1.5Amp	1.5Amp	13.75VDC	Via any Module with EXT PSU Connector

Miscellaneous	Notes
SIFER Smart Card Reader	Secure AES fully encrypted RS-485 multi-drop card reader
Switched DC Power Hub	1 input / 4 outputs DC power distribution hub

\*\* Product scheduled for future release at time of publication

Integrity's Backward Compatibility with Concept 4000 Modules

Integrity Security Controllers are backwardly compatible with most newer model Concept 4000 Modules, with the exception of the Touch Screen Keypad. Some Concept 4000 LAN Modules require a firmware upgrade for compatibility. The behaviour of some Concept 4000 LAN Modules may be different when used as part of an Integrity system. Please contact Inner Range technical support for further details.

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 49 of Integrator Product Catalogue).

The base module supports two doors/two readers and is expandable up to eight doors/eight 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.

The ILAM is also used for integration of Assa Abloy Aperio or Salto Sallis wireless door locking systems. Please see our website for Integriti - Aperio/Salto 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. Integriti external power supplies 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



ABOVE:  
ILAM shown in 4 Door / 4 Reader configuration.  
(ILAM with UniBus 2 Door / 2 Reader expansion device connected) Housed in the Medium size 995201PEI enclosure with 3Amp Power Supply.

### Features

- RS-485 LAN connectivity
- RS-485 Reader connectivity (up to 16 SIFER Readers)
- 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 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

#### Doors & Expansion 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, 3A or 8A Switch mode)
- Aperio or Salto Sallis integration - up to 8 Doors via dedicated 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 RS-485 readers via the dedicated RS-485 reader port

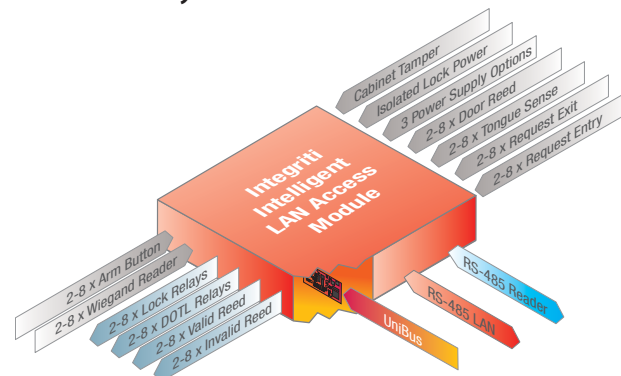
#### Offline Intelligence

- 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

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
2 Door / 2 Reader Expander	0	3	0	3
16 Floor Lift Interface	6	6	6	6
RS-232/RS-485 UART	4	4	0	0
Analogue Expander	6	0	6	0
2 <sup>nd</sup> Network Interface Card	1	1	0	0

\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

### Connectivity



### Specifications

#### Physical

Enclosure Options:	Small - 995200PEI Series - 252(L) x 358(W) x 85(D) (mm) (with 2Amp PSU - houses 2 doors)
	Medium - 995201PEI Series - 460(L) x 358(W) x 85(D) (mm) (with 3Amp PSU - houses up to 4 doors)
	XLarge - 995203PEI Series - 702(L) x 358(W) x 85(D) (mm) (with 3Amp PSU - houses up to 8 doors)*
	XLarge - 995203PE8 Series - 702(L) x 358(W) x 85(D) (mm) (with 8Amp PSU - houses up to 8 doors)
	WideBody - 995204PE8 Series - 580(L) x 510(W) x 95(D) (mm) (with 8Amp PSU houses up to 8 doors)
	Rack Mount - 995220PEI Series - 2RU 680(L) x 420(W) x 85(D) (mm) (with 3Amp PSU - houses up to 8 doors)*
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, 7AH battery and cover)
Installation Environment:	0°C - 50°C @15% - 90% Relative humidity (non-condensing)

#### Electrical (For PCB Only)

Power Supply Input:	11V to 14VDC
Current Consumption:	110mA standby. 175mA with lock relays on

NOTE: Current consumption does not 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 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
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 switches)
RS-485 Reader:	1 (allows up to 16 Inner Range SIFER or OSDP compatible readers to be connected via RS-485 multi-drop LAN)

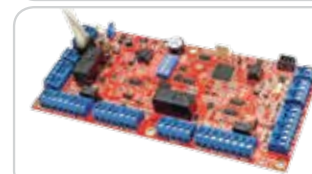
#### External Power Supply Monitoring (Compatible with IR SMART PSU Devices)

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

#### Compliance

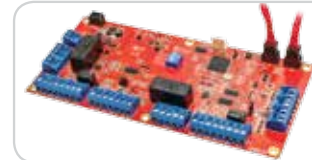
Electrical	
Environmental	

### Ordering Options



Intelligent LAN Access Module PCB & Kit  
996018PCB&K

Intelligent LAN Access Module PCB & Kit  
with 2 Doors & 2 Readers on board



UniBus 2 Door / 2 Reader Expansion Board  
996535PCB&K

UniBus 2 Door / 2 Reader expansion board PCB & Kit

### Reader Options



Inner Range SIFER Smart Card Reader  
994720  
RS-485 multi-drop 128 bit AES encrypted  
DESfire reader. DESfire EV1 cards & fobs available  
from Inner Range

### 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 suite Concept PCB's  
**999006** - Large mounting plate to suite Concept or Integriti PCB's\*\*\*  
**999027** - 2nd tier hinged expansion plate to suit WideBody enclosure

#### Enclosures for Australia

**Small** - 995200PEI with 2Amp PSU  
Houses 1 x 996018PCB&K  
**Medium** - 995201PEI with 3Amp SMART PSU  
Houses 1 x 996018PCB&K & 1 x 996535PCB&K  
**XLarge** - 995203PEI with 3Amp SMART PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K\*  
**XLarge** - 995203PE8 with 8Amp PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K  
**WideBody** - 995204PE8 with 8Amp SMART PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K  
**Rack Mount** - 995220PEI 2RU drawer with 3Amp SMART PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K\*

#### Enclosures for Europe

**Small** - 995200PEEU with 2Amp PSU  
Houses 1 x 996018PCB&K  
**Medium** - 995201PEEU with 3Amp SMART PSU  
Houses 1 x 996018PCB&K & 1 x 996535PCB&K  
**XLarge** - 995203PEEU with 3Amp SMART PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K\*  
**XLarge** - 995203PEEU8 with 8Amp PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K\*\*  
**WideBody** - 995204PEEU8 with 8Amp SMART PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K\*\*  
**Rack Mount** - 995220PEEU 2RU drawer with 3Amp SMART PSU  
Houses 1 x 996018PCB&K & up to 3 x 996535PCB&K\*

\* Additional external power is required for 6 and 8 door configurations.

\*\* Product scheduled for future release.

\*\*\* Suitable for 995203 series enclosures only.



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 49 of Integrator Product Catalogue).

The module supports two doors and up to four 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 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 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 senior staff may need guaranteed access if the module is offline.

The SLAM is also used for integration of Assa Abloy wireless door locking systems. Please see our website for Integriti - Aperio Integration Guide for more details.

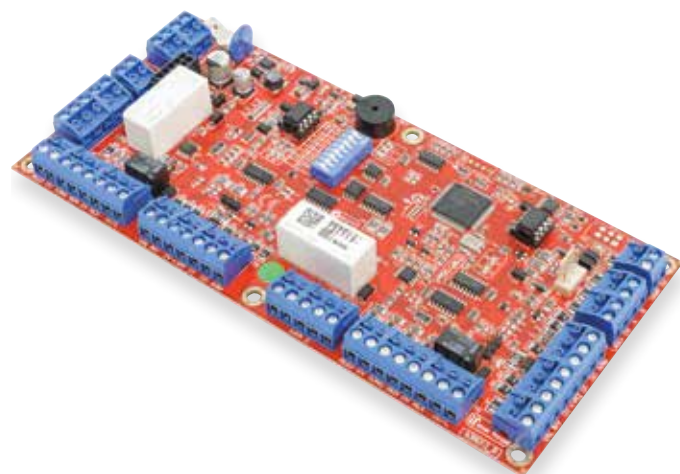
The power supply requirements are 11 to 14VDC and a range of Integriti plug on external 2Amp, 3Amp or 8Amp switch mode power supplies are available. The status of Integriti 3 & 8Amp SMART power supplies are fully monitored via the Standard LAN Access Module.

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

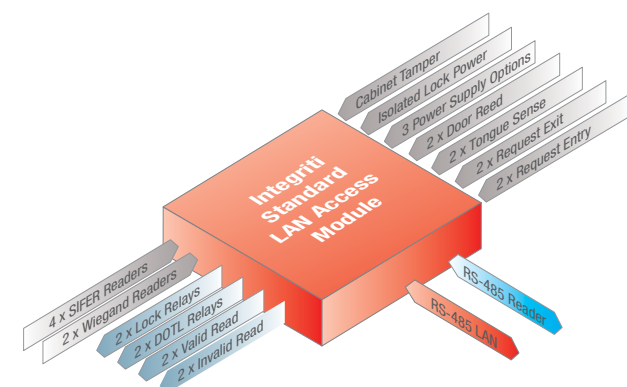
- Offline 2,000 user card cache
- RS-485 Reader connectivity (up to 4 SIFER Readers)
- Entry and exit readers for both doors when using Inner Range SIFER readers
- Reader options to control Doors, Lifts, Areas and Terminal User Logon
- Supports Wiegand card readers up to 88bits
- Wiegand reader outputs with individual self-resetting over current protection
- Aperio integration - up to 2 Aperio Doors via dedicated 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



### Offline Cache Features

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

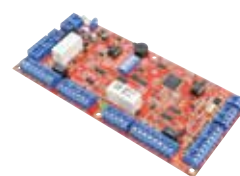
### Connectivity



### Specifications

<b>Physical</b>	
Enclosure Options:	Small - 995200PEI Series - 252(L) x 358(W) x 85(D) (mm) (with 2Amp PSU - houses 1 SLAM)
	Medium - 995201PEI Series - 460(L) x 358(W) x 85(D) (mm) (with 3Amp SMART PSU - houses up to 3 SLAMs)
	XLarge - 995203PEI Series - 702(L) x 358(W) x 85(D) (mm) (with 3Amp PSU - houses up to 5 SLAMs)*
	XLarge - 995203PE8 Series - 702(L) x 358(W) x 85(D) (mm) (with 8Amp PSU - houses up to 5 SLAMs)
	WideBody - 995204PE8 Series - 580(L) x 510(W) x 95(D) (mm) (with 8Amp PSU houses up to 6 SLAMs)
	Rack Mount - 995220PEI Series - 2RU 680(L) x 420(W) x 85(D) (mm) (with 3Amp PSU - houses up to 4 SLAMs)*
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, 7AH battery and cover)
Installation Environment:	0°C - 50°C @15% - 90% Relative humidity (non-condensing)
<b>Electrical (For PCB Only)</b>	
Power Supply Input:	11V to 14VDC
Current Consumption:	110mA standby. 175mA with lock relays on
NOTE: Current consumption does not include the current required by readers or other external devices such as locks, buzzers, lamps or any device attached to the DOTL, Valid, Invalid and RS-485 Reader connections	
Over Current Protection:	Reader +V connections. Protected with self resetting PTC's
<b>Contact Ratings</b>	
Lock Relays:	5 Amps @ 30VDC
DOTL Relays:	1 Amp @ 30VDC (Door Open Too Long output)
<b>Connections</b>	
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, DO, ARM
Lock Power:	Includes Lock+, Lock- connections from external PSU
Cabinet Tamper:	2 pin connection for cabinet tamper switch
RS-485 LAN:	1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP switches)
RS-485 Reader Port:	1 (allows up to 4 Inner Range SIFER or OSDP compatible readers to be connected via RS-485 multi-drop LAN)
<b>External Power Supply Monitoring (Compatible with Inner Range 3 &amp; 8Amp SMART PSU's)</b>	
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
<b>Compliance</b>	
Electrical	
Environmental	
* Additional external power may be required.	

### Ordering Options



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

### Reader Options



Inner Range SIFER Smart Card Reader  
994720  
RS-485 multi-drop 128 bit AES encrypted DESfire reader. DESfire EV1 cards & fobs available from Inner Range

### Enclosure Options



Enclosures for Australia  
**Small** - 995200PEI with 2Amp PSU  
Houses 1 x 996012PCB&K  
**Medium** - 995201PEI with 3Amp SMART PSU  
Houses up to 3 x 996012PCB&K\*  
**XLarge** - 995203PEI with 3Amp SMART PSU  
Houses up to 5 x 996012PCB&K\*  
**XLarge** - 995203PE8 with 8Amp SMART PSU  
Houses up to 5 x 996012PCB&K  
**WideBody** - 995204PE8 with 8Amp SMART PSU  
Houses up to 6 x 996012PCB&K\*  
**Rack Mount** - 995220PEI 2RU drawer with 3Amp SMART PSU Houses up to 4 x 996012PCB&K\*

Spare Mounting Plates for Enclosure  
**999026** - Medium mounting plate to suit Integriti PCB's  
**999023** - Medium mounting plate to suite Concept PCB's  
**999006** - Large mounting plate to suite Concept or Integriti PCB's\*\*\*  
**999027** - 2nd tier hinged expansion plate to suit WideBody enclosure  
  
Enclosures for Europe  
**Small** - 995200PEEU with 2Amp PSU  
Houses 1 x 996012PCB&K  
**Medium** - 995201PEEU with 3Amp SMART PSU  
Houses up to 3 x 996012PCB&K\*  
**XLarge** - 995203PEEU with 3Amp SMART PSU  
Houses up to 5 x 996012PCB&K\*  
**XLarge** - 995203PEEU8 with 8Amp SMART PSU  
Houses up to 5 x 996012PCB&K\*\*  
**WideBody** - 995204PEEU8 with 8Amp SMART PSU  
Houses up to 6 x 996012PCB&K\*\*  
**Rack Mount** - 995220PEEU 2RU drawer with 3Amp SMART PSU Houses up to 4 x 996012PCB&K\*

\* Additional external power may be required.  
\*\* Product scheduled for future release.  
\*\*\* Suitable for 995203 series enclosures only.

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 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. Up to 16 SIFER readers may be connected in series to the dedicated RS-485 reader port on the Integrity Intelligent LAN Access Module (ILAM) or the new Integrity Access Controller (IAC) for full Reader-In and Reader-Out operation. Up to 4 SIFER readers may be connected to the Integrity Standard LAN Access Module (SLAM). SIFER readers are IP 67 rated and available with site specific encryption keys.

Three 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 allowed. 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.



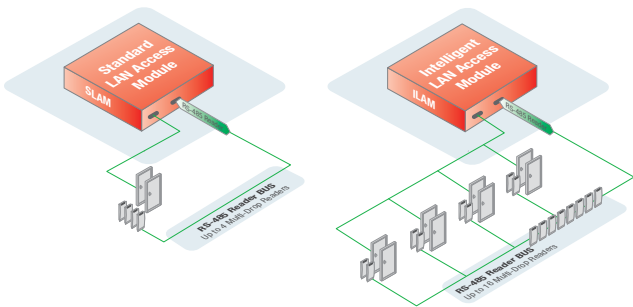
Features

- Secure 128bit AES Encryption
- Encrypted from Card to Access Module
- Mifare DESfire EV1 Card Format
- Water & Dust Resistant to IP67
- Vandal Resistant (fully potted)
- Flexible LED Assignment
- Audible Buzzer (can use as DOTL)
- Multi-drop RS-485 Reader LAN
- Individual Reader Heartbeat Monitoring
- Integrity Auto Reader Discovery
- OSDP Compatible
- Compatible With Inner Range Encrypted SIFER Cards
- Support For Custom Site Codes and Site Specific Encryption
- User Programmable Cards Offer Great Flexibility For Installers
- Global Configuration from Integrity Software (including firmware updates)
- Read-Write Functionality
- Small Footprint (dimensions: 39 (W) x 93 (H) x 15 (D) mm)

Connectivity

Up to 4 x SIFER Readers  
on Integrity Standard  
LAN Access Module

Up to 16 x SIFER Readers  
on Integrity Intelligent  
LAN Access Module



Access Module / Controller	SLAM	ILAM	IAC*
SIFER Reader Qty	4	16	16

\*Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

Specifications

Physical

Reader Size:	93(L) x 39(W) x 15(D) (mm)
Mounting Plate:	91.5(L) x 38(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:	13.56Mhz
Credentials:	Inner Range SIFER - Mifare DESFire EV1 with AES encryption

Connections

Pigtail Cable Length:	500mm
Pigtail Cable Extension:	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:	150meters total on one RS-485 reader port guaranteed
Max Readers:	Up to 16 on one RS-485 reader port (4 with Integrity SLAM)
Compatible Integrity Host Modules:	Standard LAN Access Module (SLAM), Intelligent LAN Access Module (ILAM), Integrity 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 Integrity Access Modules Manual addressing with 3rd party OSDP compatible systems
Firmware Updates:	Over-the-wire firmware updates when used with Integrity Access Modules
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 Integrity 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 Integrity software
Beeper Feedback Options:	Valid/Invalid card badge, Door Open too long (DOTL), Area Alarm, Entry/Exit Delay

Power Requirements

Input:	11-14V DC <500mV ripple
Current Consumption:	75-100mA typical, 150mA MAX with all LED's driven at full brightness

Compliance

Electrical:



Environmental:

\*Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

Ordering Options



**994720**  
SIFER Smart Card Reader



Credentials

ISO Cards

**994610**  
**SIFER-P** DESFire EV1 4K ISO  
(Pre-programmed - Printed)

**994612**  
**SIFER-U** DESFire EV1 4K ISO  
(User Programmable - Printed)

**994614**  
**SIFER-C** DESFire EV1 4K ISO  
(Custom Programmed - Printed)



FOB's

**994616**  
**SIFER-P** DESFire EV1 4K FOB  
(Pre programmed - Printed)

**994618**  
**SIFER-U** DESFire EV1 4K FOB  
(User Programmable - Printed)

**994620**  
**SIFER-C** DESFire EV1 4K FOB  
(Custom Programmed - Printed)

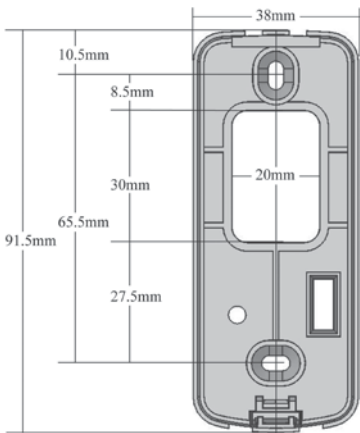


Management Tools

**994750** SIFER Card Programming Station

**994751** SIFER Card Enrollment Station

**994614CNF** SIFER-R Reader Config Card





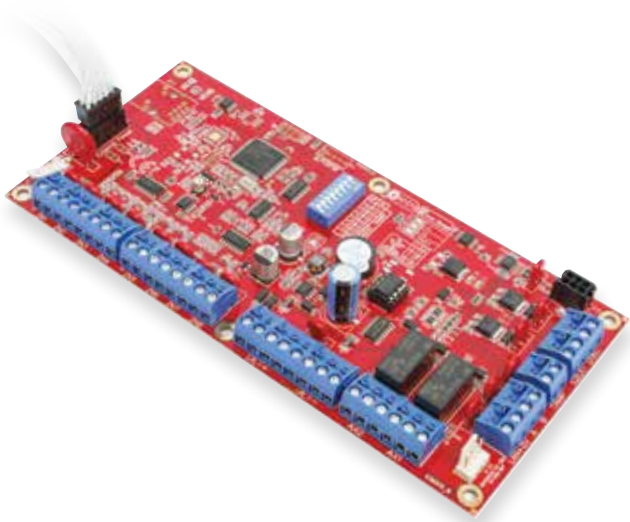
The Integrity 8 Zone LAN Expander Module connects directly to the Integrity RS-485 LAN and provides an additional 8 Zone inputs, 2 Auxiliary outputs and 2 Siren drivers.

Up to 99 Zone Expander Modules can be connected to the Integrity RS-485 LAN (or via IP using LAN over Ethernet modules - Part. 995093 see page 49 of Integrator 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 Integrity plug on external 2Amp, 3Amp or 8Amp switch mode power supplies are available. Integrity 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 Integrity RS-485 LAN, the use of LAN Isolators, or other LAN retransmission devices such as Fibre Modems 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 Integrity ISC Controller data sheet for details).**



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
2 Door / 2 Reader Expander	0	3	0	3
16 Floor Lift Interface	6	6	6	6
RS-232/RS-485 UART	4	4	0	0
Analogue Expander	6	0	6	0
2 <sup>nd</sup> Network Interface Card	1	1	0	0

\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

### Features

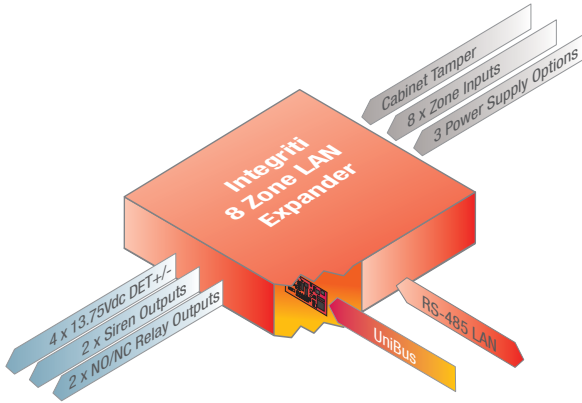
- RS-485 LAN connectivity
- UniBus In-Cabinet Expansion Interface
- 8 Zone Inputs - Multistate or Analogue
- 2 Auxiliary Output Relays
- External Integrity power supply connection
- Three options for power supply size 2Amp, 3Amp & 8Amp
- Six enclosure size options
- Dedicated Tamper Input
- Internal & 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

### 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

### Connectivity



### Specifications

#### Physical

Enclosure Options:	Xtra Small - 995200XS Series - 252(L) x 263(W) x 85(D) (mm) (No PSU)
	Small - 995200PEI Series - 252(L) x 358(W) x 85(D) (mm) (with 2Amp PSU)
	Medium - 995201PEI Series - 460(L) x 358(W) x 85(D) (mm) (with 3Amp SMART PSU)
	XLarge - 995203PEI Series - 702(L) x 358(W) x 85(D) (mm) (with 3Amp SMART PSU)
	XLarge - 995203PE8 Series - 702(L) x 358(W) x 85(D) (mm) (with 8Amp SMART PSU)
	WideBody - 995204PE8 Series - 580(L) x 510(W) x 95(D) (mm) (with 8Amp SMART PSU)
	Rack Mount - 995220PEI Series - 2RU 680(L) x 420(W) x 85(D) (mm) (with 3Amp SMART PSU)
PCB Size Code:	Integrity "B" size
PCB Dimensions:	200(L) x 94(W) x 45(D) (mm)
Weight:	300g (For PCB & accessories Only)
Installation Environment:	0°C - 50°C @15% - 90% Relative humidity (non-condensing)

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

#### 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
UniBus Port:	1 x UniBus Host expansion port
RS-485 LAN:	1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP switches)
Siren Outputs:	1 x Internal & 1 x External variable tone Siren Outputs*
Power Supply:	1 x Integrity External Power Supply Connection
Power Outputs:	4 x 13.75Vdc nominal outputs (DET+/DET- Detector Power)

#### External Power Supply Monitoring (Compatible with IR SMART PSU Devices)

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

#### Compliance

Electrical	
Environmental	
<small>*Siren drivers fitted from PCB revision "B"</small>	

### Ordering Options



**996005PCB&K**  
8 Zone LAN Expander Module PCB & Kit

**UniBus expansion options to suit above**  
See separate data sheets for UniBus devices

**996500PCB&K**  
UniBus 8 Zone Expansion device

**996515PCB&K**  
UniBus 8 Relay(Aux) Expansion device

**996540PCB&K**  
UniBus 16 Floor Lift Interface device

### Enclosure Options



995200PEI series enclosure shown

#### Spare Mounting Plates for Enclosures

**999026** - Medium mounting plate to suit Integrity PCB's  
**999023** - Medium mounting plate to suite Concept PCB's  
**999006** - Large mounting plate to suite Concept or Integrity PCB's\*  
**999027** - 2nd tier hinged expansion plate to suit WideBody enclosure

#### Enclosures for Australia

**Xtra Small** - 995200XS - No PSU  
**Small** - 995200PEI with 2Amp PSU  
**Medium** - 995201PEI with 3Amp SMART PSU  
**XLarge** - 995203PEI with 3Amp SMART PSU  
**XLarge** - 995203PE8 with 8Amp SMART PSU  
**WideBody** - 995204PE8 with 8Amp SMART PSU  
**Rack Mount** - 995220PEI 2RU drawer with 3Amp SMART PSU

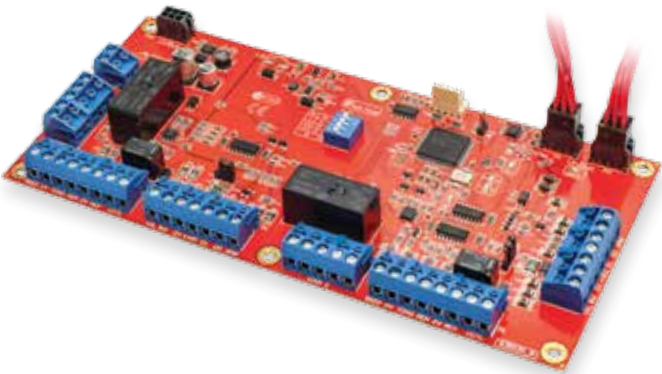
Please see Enclosure Data Sheets for PCB layout guides.  
\* Suitable for 995203 series XLarge enclosures only

The UniBus 2 Door / 2 Reader Expander can be used to provide control and monitoring of two additional Doors or Readers on a compatible UniBus host module. When connected to the Integrity Intelligent LAN Access Module, the UniBus 2 Door / 2 Wiegand Reader expander can provide installation configurations for 4, 6 or 8 doors. SIFER RS-485 readers can be assigned via the Host Module for Read In & Read Out access control on each door. A maximum of three UniBus 2 Door Expanders and a maximum of six UniBus boards in total can be connected to the host module.

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 another UniBus device via the UniBus patch cable supplied.

Host Module Compatibility

- The UniBus 2 Door Expander is compatible with the following UniBus Host Modules:
- Integrity Intelligent LAN Access Module (Part. 996018) - Connect up to 3



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
2 Door / 2 Reader Expander	0	3	0	3
16 Floor Lift Interface	6	6	6	6
RS-232/RS-485 UART	4	4	0	0
Analogue Expander	6	0	6	0
2nd Network Interface Card	1	1	0	0

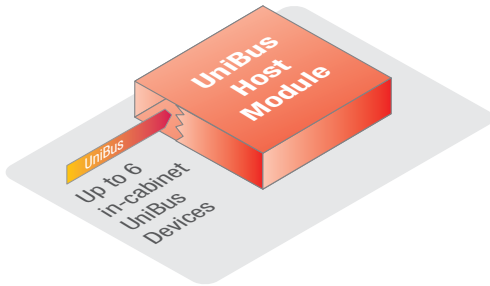
\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

Features

- Provides an additional 2 Doors / 2 Wiegand Readers for Host Module
- Assign Read In & Read Out SIFER 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
- Integrity "B" size footprint 200 x 94mm
- Over-The-Wire firmware upgradable

Connectivity

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

Specifications

<b>Physical</b>	
PCB Size Code:	Integrity "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 - 40°C @15% - 85% Relative humidity (non-condensing)
<b>Electrical</b>	
Power Supply Input:	11V to 14VDC via host module
Current Consumption:	40mA idle
	110mA both lock relays on
	135mA both lock & DOTL relays on
<small>NOTE: Current consumption does not 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 UniBus connections</small>	
Over Current Protection:	Reader +V connections. Protected with self resetting PTC's
<b>Contact Ratings</b>	
Lock Relays:	5 Amps @ 30VDC
DOTL Relays:	1 Amp @ 30VDC (Door Open Too Long output)
<b>Connections</b>	
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
<b>Power Considerations</b>	
The UniBus host module supplies static device current to all connected UniBus devices.	
Total current consumption is therefore the sum of all:	
<ul style="list-style-type: none"><li>- Static Current of all connected UniBus devices</li><li>- Static Current of host module</li><li>- Host module battery charging current</li><li>- Card Readers and Ancillary devices connected to DOTL, Valid &amp; Invalid connections</li></ul>	
<b>Lock Power Considerations</b>	
Lock power is supplied directly from an Integrity SMART PSU (Housed in the same enclosure) and is the sum of the maximum current required by all connected locking device hardware.	
<b>Compliance</b>	
Electrical	
Environmental	

Ordering Options

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

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



The UniBus 8 Zone Expander connects to an Integrity Security Controller (ISC) or an 8 Zone LAN Expander via the UniBus Port. It provides an additional 8 Zone Inputs that support all Integrity 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

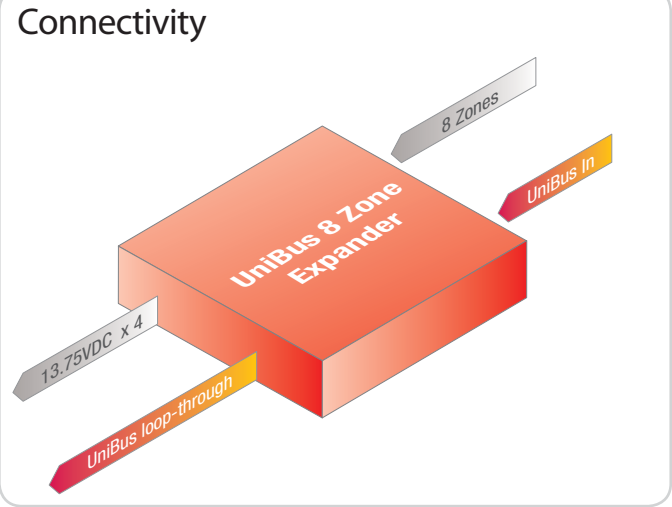
- The UniBus 8 Zone Expander is compatible with the following UniBus Host Modules:
- Integrity ISC Controller (Part. 996001) - Connect up to 2
  - Integrity 8 Zone RS-485 LAN Expander (Part. 996005) - Connect up to 3



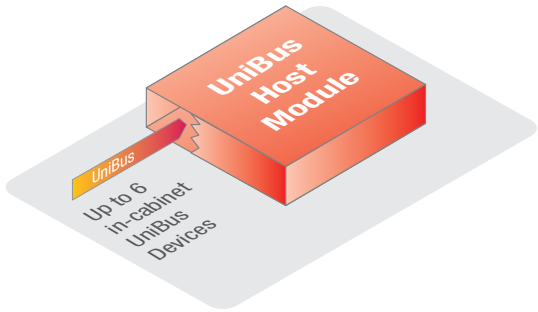
UniBus Device Compatibility Guide		UniBus Host Module			
		ISC	IAC*	8 Zone Expander	ILAM
UniBus Device	8 Zone Expander	2	0	3	0
	8 Relay Expander	4	4	4	2
	2 Door / 2 Reader Expander	0	3	0	3
	16 Floor Lift Interface	6	6	6	6
	RS-232/RS-485 UART	4	4	0	0
	Analogue Expander	6	0	6	0
	2nd Network Interface Card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

\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)

- 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
  - Integrity "C" size footprint 94 x 94mm
  - Can be installed above other "C" size PCBs\*\*
  - A Snap off strip is included to allow installation above Integrity "B" size PCBs\*\*
- \*\* 35mm standoff kit required - Part Number 999009



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

Specifications

<b>Physical</b>	
PCB Size Code:	Integrity "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 - 50°C @ 15% - 90% Relative humidity (non-condensing)
<b>Electrical</b>	
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
<b>Connections</b>	
Zone Inputs:	8
DET+ Out:	4
UniBus Port:	1
UniBus Loop-through Port:	1
Connection to Host Module:	Via 270mm UniBus patch lead (supplied)
<b>Power Considerations</b>	
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:	
<ul style="list-style-type: none"><li>- Static Current of all connected UniBus devices</li><li>- Static Current of host module</li><li>- Host module battery charging current</li><li>- Ancillary devices connected to all DET+ connections</li><li>- Ancillary devices connected to host module's RS-485 LAN+</li></ul>	
<b>Compliance</b>	
Electrical	
Environmental	

Ordering Options



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



Spare UniBus patch cables  
**9967915S** - UniBus Patch Cable 150mm  
**9967911S** - UniBus Patch Cable 220mm  
**9967911L** - UniBus Patch Cable 270mm  
**9967911LL** - UniBus Patch Cable 475mm  
**9967911XL** - UniBus Patch Cable 675mm

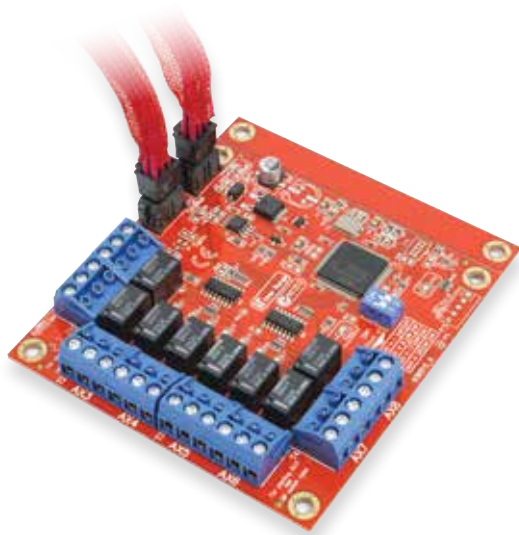
The UniBus 8 Relay Auxiliary Expander provides eight independent, high current normally open or normally closed relay outputs, offering a general purpose interface in applications such as warning devices (strobes, etc.), building automation, process control and access control.

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:

- Integrity ISC Controller (Part. 996001) - Connect up to 4
  - Integrity 8 Zone RS-485 LAN Expander (Part. 996005) - Connect up to 4
  - Integrity ILAM RS-485 LAN Access Expander (Part. 996018) - Connect up to 2\*
- \*Duplicates Lock or DOTL outputs on ILAM doors 1-8*



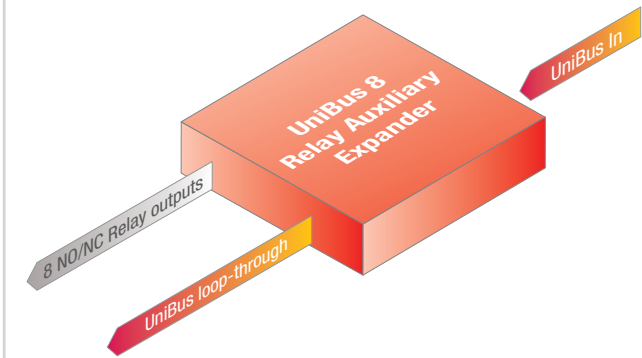
UniBus Device Compatibility Guide	UniBus Host Module			
	ISC	IAC*	8 Zone Expander	ILAM
8 Zone Expander	2	0	3	0
8 Relay Expander	4	4	4	2
2 Door / 2 Reader Expander	0	3	0	3
16 Floor Lift Interface	6	6	6	6
RS-232/RS-485 UART	4	4	0	0
Analogue Expander	6	0	6	0
2 <sup>nd</sup> Network Interface Card	1	1	0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

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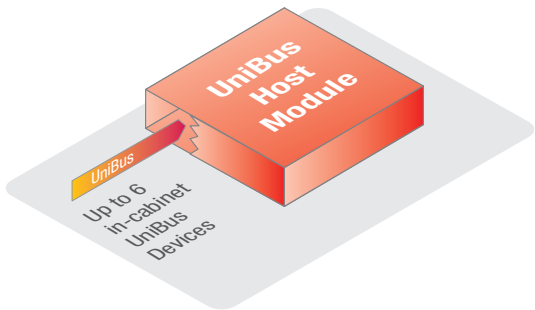
Features

- 8 Universal Relay Outputs
  - 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
  - Integrity "C" size footprint 94 x 94mm
  - Can be installed above other "C" size PCBs\*\*
  - A Snap off strip is included to allow installation above Integrity "B" size PCBs\*\*
- \*\* 35mm standoff kit required - Part Number 999009

Connectivity



UniBus Installation

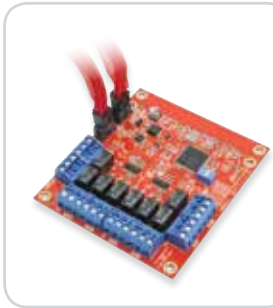


UniBus Devices are designed for installation within the same enclosure as the UniBus host module. A UniBus host can interface a maximum of six UniBus devices in any combination, provided they are all within the intended functionality of the host module

Specifications

<b>Physical</b>	
PCB Size Code:	Integrity "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 - 50°C @ 15% - 90% Relative humidity (non-condensing)
<b>Electrical</b>	
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
<b>Contact Rating</b>	
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.
<b>Connections</b>	
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)
<b>Power Considerations</b>	
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: <ul style="list-style-type: none"><li>- Static Current of all connected UniBus devices</li><li>- Static Current of host module</li><li>- Host module battery charging current</li><li>- Ancillary devices connected to all DET+ connections</li><li>- Ancillary devices connected to host module's RS-485 LAN+</li></ul>	
<b>Compliance</b>	
Electrical	
Environmental	

Ordering Options



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



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



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

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

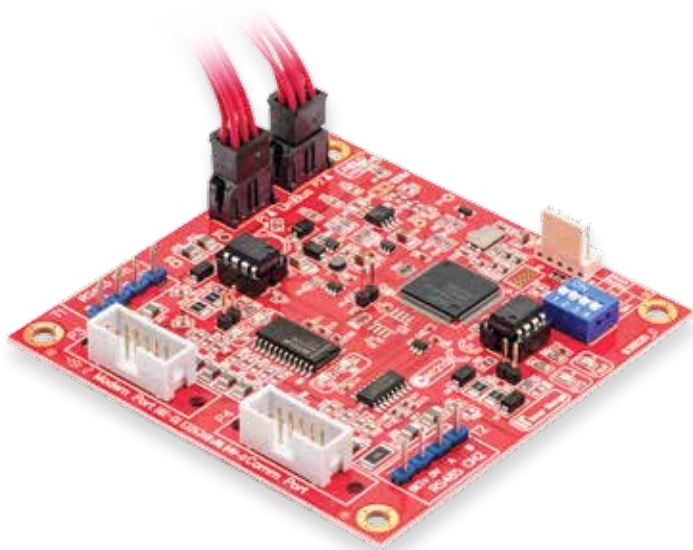
The UniBus 2 Port UART is designed for installation within the same tamper protected enclosure as its UniBus host module. The UniBus device is connected directly to the host module or another UniBus device via the UniBus patch cable supplied.

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) - Connect up to 4



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
2 Door / 2 Reader Expander	0	3	0	3
16 Floor Lift Interface	6	6	6	6
RS-232/RS-485 UART	4	4	0	0
Analogue Expander	6	0	6	0
2 <sup>nd</sup> Network Interface Card	1	1	0	0

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### 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.

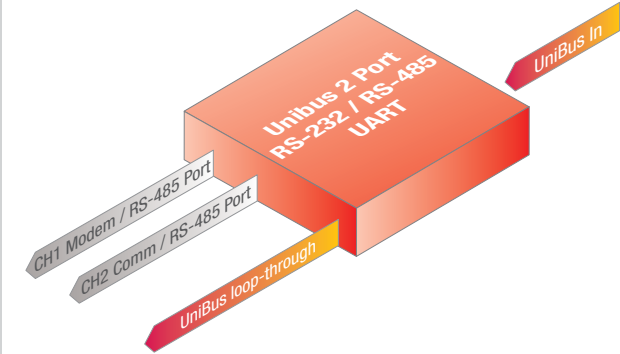


### Features

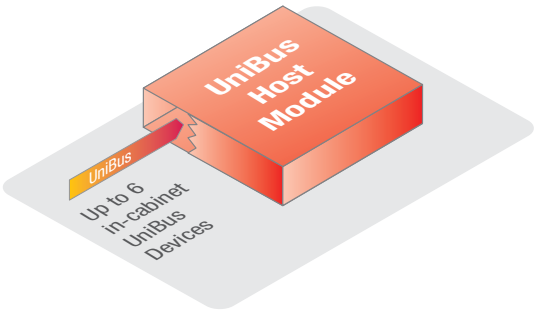
- 2 Software configurable UART Ports
  - Channel 1 - RS-232 Modem / RS-485 Port
  - Channel 2 - RS-232 Comm / RS-485 Port
- DIP switch addressable module number 1, 2, 3 or 4
- DIP switch selectable CH1/CH2 mode, RS-232 or RS-485
- LED indication of CH1 & CH2 RX & TX activity
- LED UniBus status indicator
- 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

### Connectivity





### 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

### Specifications

<b>Physical</b>	
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 - 50°C @ 15% - 90% Relative humidity (non-condensing)
<b>Electrical</b>	
Power Supply Input:	11V to 14V DC via host module
Static Current Consumption:	40mA PLUS 5mA per active port
<b>Connections</b>	
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)
<b>Communications Formats</b>	
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.
<b>Power Considerations</b>	
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: <ul style="list-style-type: none"><li>- Static Current of all connected UniBus devices</li><li>- Static Current of host module</li><li>- Host module battery charging current</li><li>- Ancillary devices connected to all DET+ connections</li><li>- Ancillary devices connected to host module's RS-485 LAN+</li></ul>	
<b>Compliance</b>	
Electrical	
Environmental	

### Ordering Options



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



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

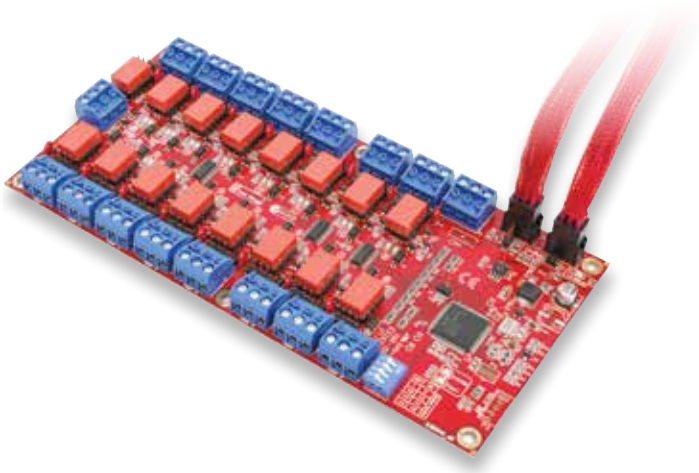


Serial Port Patch Cables  
**993009** - Computer interface cable(DB9)  
**993025** - Computer interface cable(DB25)  
**993026** - Serial Printer interface cable(DB25)  
**993027** - Modem interface cable(DB25)  
**993035** - Securitel interface cable(Flying leads)  
**995009** - Internal PC Interface cable kit.  
Installed inside the cabinet to the DB9 knockout, to provide an external DB9 serial connection.

The UniBus 16-Floor Lift Interface device provides integration between the Integrity Security System and a lift control system in order to provide managed and secure floor access for users within multistorey buildings and apartment blocks. The UniBus Lift Interface device facilitates a low level button feedback interface between Integrity and the lift system. It incorporates input conditioning and switching to provide the isolation required between the two systems.

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

Up to 6 UniBus 16-Floor Lift Interface devices can be connected to a single host module in order to service up to 96 floors per host module. An Integrity Controller can accommodate up to 255 floors.



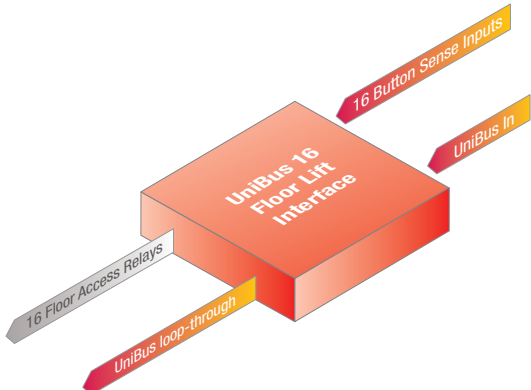
UniBus Device Compatibility Guide	UniBus Host Module			
	ISC	IAC*	8 Zone Expander	ILAM
8 Zone Expander	2	0	3	0
8 Relay Expander	4	4	4	2
2 Door / 2 Reader Expander	0	3	0	3
16 Floor Lift Interface	6	6	6	6
RS-232/RS-485 UART	4	4	0	0
Analogue Expander	6	0	6	0
2 <sup>nd</sup> Network Interface Card	1	1	0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

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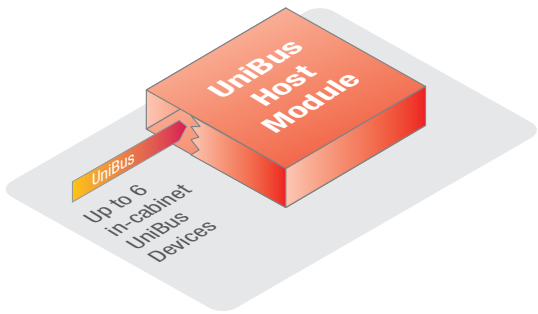
Features

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

Connectivity



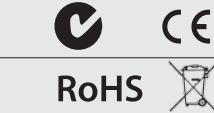
UniBus Installation



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

Specifications

<b>Physical</b>	
PCB Size Code:	Integrity "B" size
PCB Size:	200(L) x 94(W) (mm)
Height:	15(D)(mm) (28mm with UniBus cable connected)
Installation Environment:	0°C - 50°C @ 15% - 90% Relative humidity (non-condensing)
<b>Electrical</b>	
Power Supply Input:	11V to 14V DC via host module
Static Current Consumption:	55mA PLUS 16mA per relay. Approximately 310mA when all relays are on
<b>Contact Rating</b>	
Maximum Switching Current:	500mA @ 16 – 48V DC/AC RMS 200mA @ 60 – 110V DC/AC RMS (30W / 62.5VA) 50VAC
<b>Connections</b>	
Relay Contacts:	16 x NC outputs
Override Input:	1
Button Sense Inputs:	16
UniBus Port:	1
UniBus Loop-Through Port:	1
Connection to Host Module:	Via 270mm UniBus patch lead (supplied)
<b>Compliance</b>	
Electrical	
Environmental	



Ordering Options



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



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



The Integrity Prisma Keypad provides a stylish and simple keypad to control the Integrity system. Featuring a full colour LCD screen, and a simple to use icon, function key and scroll wheel navigation system, the Prisma keypad provides a delightful user experience. End users can perform simple functions such as arming and disarming areas, isolating zones, and reviewing event history all accessible via the full colour graphic display.

The Prisma Keypad features eight status LEDs, a full colour LCD screen, built-in temperature sensor, easy to read text, and icon, scroll wheel and function key based navigation system.

The colour and intensity of the Keypad backlighting and Screen colour schemes are configurable and feature auto-dimming.

Audible indications are provided by 8-bit digital sound tones and options are provided for Date/Time and Temperature on the default display.

Graphic Terminals can be used in systems to perform programming, commissioning and User operations, display alarm messages and review system activity.

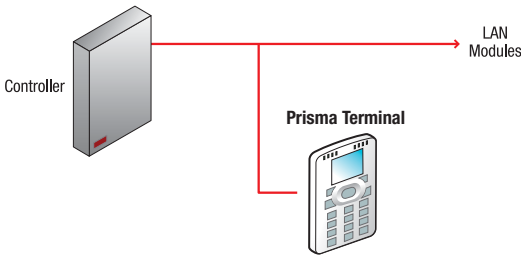
Built-in tamper monitoring detects any attempt to open the case or remove the product from the mounting surface.



Features

- Contemporary slimline surface mount design
- Full colour LCD backlit screen
- Large – easy to read text
- Icon & Scroll wheel navigation system
- Function keys for quick item selection
- Scrollable display for menus and lists
- Light sensitive auto dimming LCD backlight
- Variable colour RGB keypad backlight
- Logged off temperature display
- 8 LED indicators for Area status display
- 8-bit digital sound tones
- Instant help text available anytime, at the press of a key
- Programmable panic key and duress option

Connectivity



Specifications

<b>Physical</b>	
Housing Dimensions:	162 (H) x 88(W) x 15(D) (mm)
Installation Environment:	0° - 50°C @ 15% to 85% relative humidity (non condensing)
<b>Electrical</b>	
Input Voltage:	11V – 14V DC
Operational Current:	Auto current limiting Typically less than 100mA @12V
<b>Connections</b>	
Speaker:	8-bit digital sound
LED Indicators:	Array of 8, Auto-dimmable bicolour LED
<b>User Interface</b>	
LCD Screen:	320 x 240 (QVGA) colour LCD
LCD Backlight:	White backlit, Auto-dimmable
Keypad Backlight:	Variable-colour RGB, Auto-dimmable

Ordering Options



996000  
Integrity Prisma Terminal – White

The Elite LCD Terminal is an alternative interface for entering Access PIN numbers for the Integrity system. Its iconic design, 20 key backlit keypad and LCD display allow you to quickly perform typical operations, review system activity and program all options.

The LCD display allows plain text navigation through operations and alarms, events and items are presented by name.

Elite LCD Terminals are used to perform programming and User operations, display alarm messages and review system activity. A backlit keypad allows for positive PIN & data entry and indicator LEDs provide Area/system status information.

This Multi-Lingual version also provides support for multiple character sets and allows the Installer to choose the character set that matches the Language provided in the Control Module firmware.

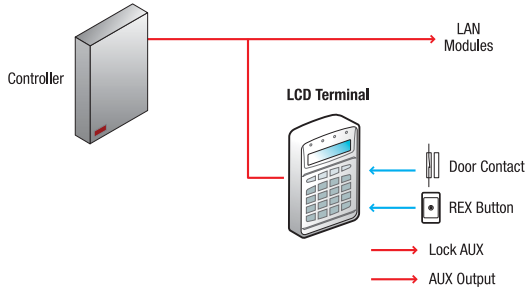


Features

- Compatible with Integrity & Concept 4000 Controllers
- May be installed as a flush-mount or surface mount unit
- Backlit rubberised keypad provides tactile feedback
- Four LEDs provide area status, door functions, alarms and/or other conditions via programming options
- Instant help text available anytime, at the press of a key
- Multi lingual firmware as standard (12 Languages)
- Four 'arrow' keys provide quick and convenient access to options in the 'spreadsheet' style menu
- Zone inputs and auxiliary outputs provided onboard the Terminal
- Programmable panic key and duress option

Connectivity

The Elite LCD Terminal is connected directly to the Integrity RS-485 LAN. Up to 99 Elite LCD Terminals may be installed in a system comprising a single Integrity Controller.



Specifications

<b>Physical</b>	
Housing Dimensions:	162 (H) x 88(W) x 15(D) (mm)
Installation Environment:	0° - 50°C @ 15% to 85% relative humidity(non condensing)
<b>Electrical</b>	
Input Voltage to PCB:	11V - 14V DC
Operational Current:	Normal - 20mA, Maximum - 45mA
Auxiliary Output Current:	100mA maximum each
<b>System Outputs</b>	
LED Indicators:	4
Outputs (Open collector)	2

Ordering Options



995000ML  
Universal Elite Terminal (Multi Lingual)



995000MLWH  
Universal Elite Terminal (Multi Lingual white)

Sporting a stylish, dust proof, highly water resistant, and vandal resistant brushed aluminium case, the Weatherproof Terminal from Inner Range adds yet more versatility to Integriti or Concept stable of security and access control products. This device is perfect for gate or door access control in exposed environments. In addition to 1 door access control, users can also separately arm and disarm their alarm system or a portion thereof using the Weatherproof Terminal. Along with the area control, there is visible feedback of "valid / invalid PIN" entry as well as "area armed / disarmed" status.

#### Easier to program, tighter integration...

Unlike previous solutions utilising third party products, this wholly Inner Range solution does not require special user configuration. With this terminal, all programmed system users have access to PIN code functionality similar to that of a normal Elite Terminal but restricted to the associated door and the area associated with the Keypad or the user. The new Weatherproof Terminal offers more features and tighter integration than third-party weatherproof terminal solutions for Integriti or Concept systems.



## Features

### Keypad

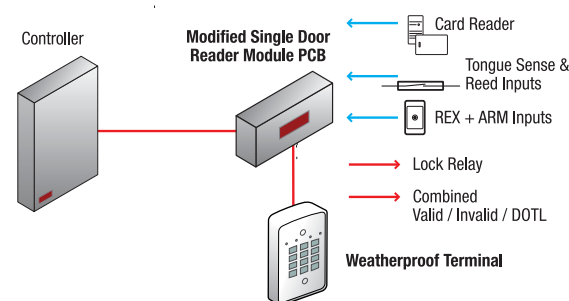
- Attractive, rugged case is highly vandal resistant
- Completely dust proof and highly water resistant IP65 rated case with no moving parts
- Control one door per Terminal
- Control a security area associated with the door or user's special area
- Piezo effect push buttons with audible feedback
- Easy 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.

### 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

## Connectivity

The Weatherproof Terminal is connected to the Controller RS-485 LAN through the supplied Reader Module. (Check memory allocations for module quantity with Concept Systems)



## Ordering Options



**995010**  
Weatherproof Terminal (Shortform kit containing keypad and reader module PCB. Requires external power supply).

**995010PCB&K**  
Weatherproof Terminal PCB (Supplied with PCB Only)

## Specifications

### Physical

Keypad Dimensions:	120(L) x 65(W) x 27(D) (mm)
Keypad Installation Environment:	-30° to +60° Celsius and 0 to 95% relative humidity (non-condensing). IP65 Moisture & Dust rating
PCB Dimensions:	95(L) x 95(W) (mm)
PCB Installation Environment:	0° - 50°C @ 15% to 85% Relative humidity (non-condensing)

### Electrical

Input Voltage to PCB:	11-14VDC (Typically from separate power supply)
Operational Current:	Standby: 40mA
	Logged on: 45 to 55mA
	With lock relay active: 72mA
	All Auxiliaries active: 180mA
Fuse Protection:	500mA (Keypad/Reader power)

### Inputs

Zone Inputs:	5 (May have predefined functions depending on programming options selected, i.e.: Door Reed, REX, REN, Tongue Sense and Arm button)
Reader Ports:	1 (used for keypad)

### Outputs

Relay:	1 (Typically used for door lock)
Outputs (Open Collector):	5 (3 reserved for Valid/Invalid, Area Armed/Disarmed indication, keypad beeper)

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 4000 System. Wireless functionality is added to the Inner Range Controller with the inclusion of Paradox Magellan wireless devices.

The 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. Additionally each module will provide 32 wireless detection zones for Paradox PIR's, reed switches and smoke detectors, low battery supervision and reporting is provided for all wireless devices.

#### Paradox wireless devices:

- Remote Controls & Fobs
- Motion Detectors
- Wireless Door Contacts (Reed Switches)
- Smoke and Glass Break Detectors

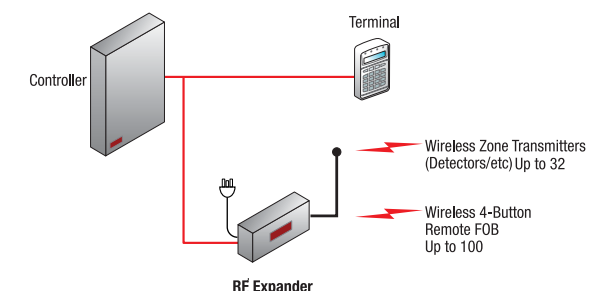


## Features

- The RF Transceiver connects directly to the Integriti or Concept RS-485LAN
- 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 to selected RF Fobs for Arming and Disarming System Areas and outputs
- Wireless PIN entry using selected models of RF Fobs
- Low Battery supervision & reporting from all wireless devices
- Wireless panic input
- Low battery reporting

## Connectivity

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



## Specifications

### Physical

Enclosure Dimensions:	150(L) x 166(W) x 32(D) (mm) (Not including antennae)
Installation Environment:	0° - 50°C @ 15% to 85% Relative humidity (non-condensing)

### Electrical

Input Voltage:	PCB 11-14VDC (Operational Current 65mA)
Zone Inputs:	32 wireless zones
Key Fobs:	1 per user in Integriti (Limited of 100 Fobs in Concept depending memory configuration)

### System Inputs

	Transmitter Low Battery, Transmitter Poll Fail and RF Jam, Cabinet Tamper, Module Low Volts, LAN Fail and Module Low Battery, RF Frequency Band RF Frequency 433.92MHz
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### Compatibility

Requires Concept 4000 Control module firmware V7.61 or newer. If Insight software is being used Version 4.2 or newer is required for full compatibility.

Compatible with Paradox Magellan:	PIR's: PMD1P, PMD75, PMD85
Wireless Door Contacts:	DCT10, DCTXP2, DCT2
Remote Control FOBS:	REM1, REM15, REM2, REM3
Asset Protector:	GS250
Panic Pendant:	Available late 2010
Smoke Detectors:	SD738

## Ordering Options



**995025**  
RF Module Paradox (433MHz)



Designed for sites where you need an affordable single door, single card reader access module, this One Door Access module is the perfect choice. e.g. Lift Cars, Boom gates or any door that is not in close proximity to another door, etc.

The Single Door Access Module is designed to provide an interface for a single Reader head along with the required inputs and outputs for the control and monitoring of a Single Door. Magnetic Swipe or Wiegand Reader formats are supported and an on-board relay provides lock switching. A single Auxiliary output is provided to control Reader LEDs and/or Buzzers and can be configured as a general purpose output, or to indicate "Door Open Too Long" (DOTL) OR "Valid", "Invalid" and "DOTL" Programming options allow for Door Access to be integrated with Area On/Off Control where required.

Supports Multiple Card Reader Formats

Configuration options allow for a broad range of card reader technologies.

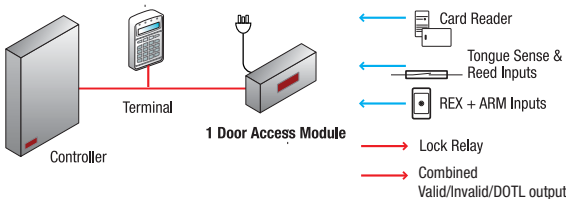


Features

- 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
- Door Open Too Long (DOTL), valid and invalid output
- On-board lock relay
- Fuse protection of reader power

Connectivity

The 1 Door Access Module is connected directly to the Controller RS-485 LAN. (Up to 99 may be connected to a single controller)



Specifications

<b>Physical</b>	
PCB Dimensions:	95(L) x 95(W) (mm)
Installation Environment:	0°C - 50°C @15 - 85% Relative humidity (non-condensing)
<b>Electrical</b>	
Input Voltage to PCB:	11-14V DC (Typically from separate power supply)
Operational Current:	15mA
Max:	25mA with lock relay active. (NOT including Reader or Auxiliary Out current)
Fuse Protection:	500mA
<b>Connections</b>	
Zone Inputs:	4 (May have predefined functions depending on programming options selected, i.e.: Door Reed, REX/REN, Tongue Sense and Arm button)
Reader Ports:	1
Outputs:	Relay 1 (Typically used for door locks)
Outputs (open collector):	1 (Typically used for Valid/Invalid indication)

Ordering Options



995011PCB&K  
1 Door Access Module

The Analogue module provides the capability to monitor, report and action on analogue quantities within a Integrity 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/or controlled in scaled units at any LCD Terminal or remotely off-site.

The Analogue Module allows the programmer a variety of selectable mode settings and levels with which to configure the system to the particular application. 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 Integrity compatibility.

Features

- Four independent analog 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)

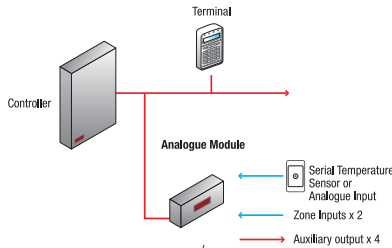
Specifications

<b>Physical</b>	
Cabinet Dimensions:	305(L) x 140(W) x 72(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)
<b>Electrical</b>	
Input Voltage to PCB:	11-14VDC
Operational Current:	~30mA
Input Voltage to PCB (Temp Sensor):	5VDC (1mA) from host Analogue Module
<b>Inputs</b>	
Zone Inputs:	4 Analog inputs, 2 general purpose zone Inputs
Input Range: Voltage Option:	0-5VDC uni-polar referenced to 0V input terminal
Current Loop Option:	4-20mA DC polarised, input termination resistor selectable
Input Impedance:	10kOhm set by input termination resistor. (ADC Input Impedance~10MOhm)
ADC Resolution:	8bit
Input Resolution:	20mV
Over Voltage Protection:	Yes
ESD Protection:	Yes
<b>Outputs</b>	
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
<b>Sensor Specification</b>	
Temperature Range (Temp Sensor):	0°C - 125°C or -55°C - +70°C Resolution +/- 0.5°C
<b>Accuracy</b>	
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 Concept RS-485 LAN. Up to 99 Analogue Modules may be installed in a single panel system.



Ordering Options

- 995088**  
Analogue Module (Voltage Mode) in metal enclosure
- 995088C**  
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



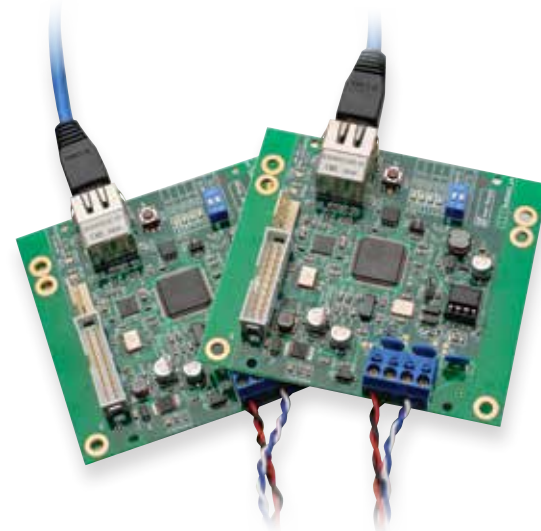
The LAN over Ethernet Interface (CLOE) provides a convenient interface for the Integriti (or Concept) RS-485 LAN to be distributed over standard TCP/IP Ethernet networks.

Ethernet connectivity allows the Integriti 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 Integriti's 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.

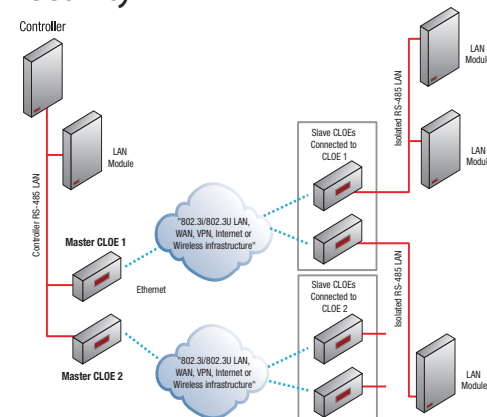
Every CLOE module can be assigned as a master or a slave via initial set-up options, and the master unit is configured with a static IP address while the slave units support static or dynamic addressing. The use of Ethernet networks also provides the added benefit of electrical isolation between RS-485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



## Features

- Compatible with Integriti or Concept 4000 RS-485 LAN
- Transmit the RS-485 LAN over Ethernet Networks
- Convert Standard RS-485 LAN Modules into Ethernet LAN Modules
- Serial communication speeds of up to 19200 baud
- Extend the Integriti or Concept 4000 LAN distance
- Use wireless IP technologies to save wiring costs
- Use existing IP Networks to save wiring time & costs
- Deploy single Control Modules across multiple sites
- Provide electrical isolation between RS-485 LAN segments.

## Connectivity



## Specifications

### Physical

PCB Dimensions:	95(L) x 95(W) (mm)
Installation Environment:	0°C-50°C @ 15% to 85% Relative humidity (non condensing)

### Electrical

Input Voltage to PCB:	(11-14VDC)
Operational Current:	Typical: ~65 mA Max: 110mA
Ethernet LAN:	10baseT / 100baseT (802.3i / 802.3U)
Ethernet Connector:	RJ45

## Ordering Options



**995093**  
LAN Over Ethernet Module

The Inner Range Fibre Modem provides two separate, optically isolated ports to the Integriti or Concept system LAN. A set of Fibre Modems are ideal for applications where modules are separated in different buildings and/or are separated by large distances.

In terms of a Integriti or Concept system, Fibre Modem links boost maximum LAN distance whilst 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.

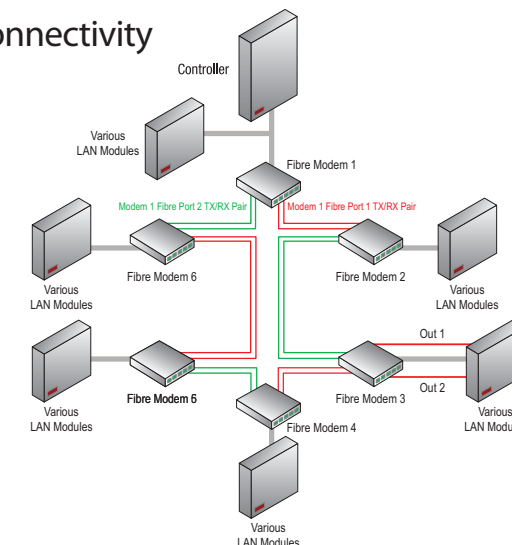
Both Single Mode and Multimode versions of the Fibre Modem are available.



## 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

## Connectivity



## Specifications

### Physical

Enclosure Dimensions:	238(L) x 118(W) x 74(D) (mm)
PCB Dimensions:	96(L) x 96(W) (mm) Note: Fibre Connector heads protrude 15mm from PCB
Installation Environment:	0° - 50°C @ 15% to 85% Relative humidity (non-condensing)
Fibre Optic Connections:	Type ST: 62.5/125 820nm multimode cable (Multimode) 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)
Max. Modem to Modem Optical Cable Distance (Multimode):	3km
Max. Modem to Modem Optical Cable Distance (Single Mode):	13km

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

## Ordering Options



**995081**  
Multimode Fibre Modem

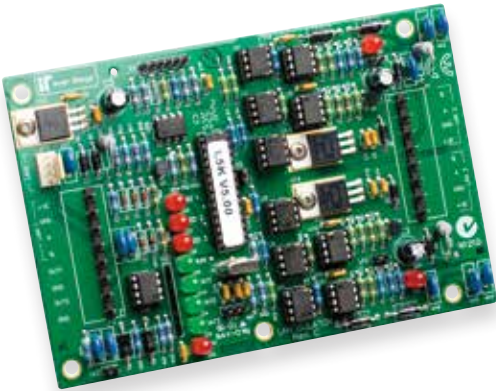


**995087**  
Single Mode Fibre Modem



The LAN Isolator affords an Integrity or Concept system with optical isolation of LAN wiring. It has 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.

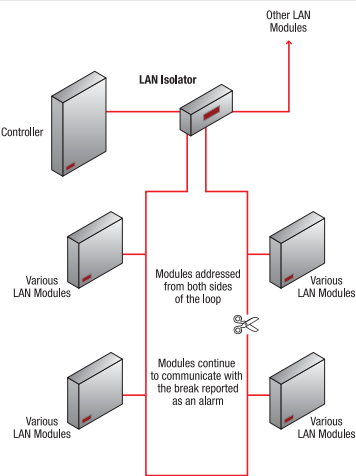


Features

- 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 standard zone input
- 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.



Specifications

<b>Physical</b>	
Cabinet Dimensions:	305(L) x 140(W) x 72(D) (mm)
PCB Dimensions:	140(L) x 92(W) (mm)
Installation Environment:	0° – 50°C @ 15% to 85% Relative humidity (non-condensing)
<b>Electrical</b>	
Input Voltage to PCB:	11-14VDC (From LAN or separate battery backed external power supply)
Operational Current (Standby):	LAN1 section: 28mA, LAN2 or LAN3 section: 15mA
Operational Current (Busy):	LAN1 section: 65mA, LAN2 or LAN3 section: 30mA
Isolation:	LAN1 - LAN2: 5kV, LAN1 - LAN3: 5kV
Alarm Outputs:	'Loop Fail' and 'Branch Isolated'

Ordering Options



995080  
LAN Isolator in metal enclosure



995080PCB&K  
LAN Isolator short form kit

# Multipath-IP



Multipath-IP

## T4000 SECURITY COMMUNICATOR

The Multipath-IP T4000 security communicator 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 T4000 signifies the next evolution in the Multipath-IP solution. Built from the ground up, the T4000 supersedes previous models and delivers unprecedented features never before seen within the security industry. Whilst the T4000 is incredibly sophisticated, its core strength focuses on ease of installation, ease of operation and low-cost security monitoring. The T4000 can even leverage Inner Range's SkyTunnel cloud based infrastructure for seamless IP connectivity and super-fast alarm reporting.

It features Dual 3G and Ethernet alarm transmission paths allowing simple connection of many brands of alarm panels. The T4000 is capable of providing 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 easily retrofit into existing alarm system cabinets or be housed in its own security cabinet with a backup battery.

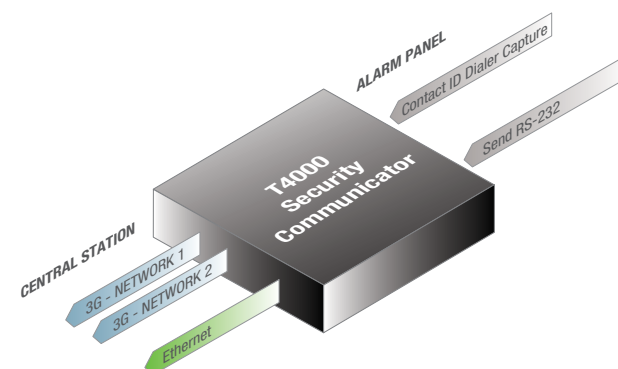
### Features

- Simple Plug and Play installation
- Ultra-fast 3G 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
- Dialler 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 & Concept systems
- Remote firmware update capability
- General purpose security inputs
- 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 web: <https://skycommand.innerrange.com>
- Alarm reporting using Contact-ID and IRT 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)

### Package Contents

- T4000 Security Communicator
- 3.5Dbi magnetic antenna - 2m cable
- Dual network SIM cards (Pre-Installed)
- 4x mounting screw and standoff hardware (for Inner Range metal enclosures)
- Velcro adhesive tape
- Screw terminal connectors
- Dialer capture lead
- Installation instruction manual

### Connectivity



### Specifications

#### Physical

Size:	101(L) x 98(W) x 35(D) (mm)
Weight:	190g
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

#### Connections

Outputs:	1 Relay Output
Relay Contact Rating:	2Amp 30VDC
Inputs:	1 configurable (EOL or No-EOL)
Ethernet:	10/100 Mbps
PSTN (Phone):	RJ12
PABX (Panel):	RJ12 Contact-ID Dialer Capture
Serial:	RS-232, TTL

#### LED Indicators

Status Indicators:	Power/Battery
	Panel
	GSM Registration
	Host (Server Online)
	Alarms Buffered
	GSM Modem
	SIM1/2
	Ethernet Status (Link/Act)

#### Alarm Communications

Alarm Formats:	Contact ID, IRT, IRT + Text
Encryption:	128 bit AES

#### Upload / Download Data Pass-Through via IP (3G/Ethernet)

Panel Connection:	Dial up Modem, Serial RS232
Modem Modulation:	Bell 103, V21, V22

#### PSTN / PABX

PSTN Isolation Voltage:	1500v RMS
Max PABX line Voltage:	65V RMS
Max PABX Current:	30mA
PABX Output Level:	-10dBm
Max RF Power:	2 watts



#### Power Specifications

Input:	12-24VDC, 200mA nominal (18VDC 1 Amp recommended for Battery backup)
Fuse:	PTC protection + on board fuse (non replaceable)
Charger Output Voltage:	13.75VDC
Charger Supply Current @ 18 volts:	90mA (Idle) + 30mA (GSM Online)
Max Output Current:	500mA average
Typical Battery Backup Time:	72 hours (T4000 only)
Minimum Battery Backup Time:	48 hours (T4000 only)
Minimum Operating Voltage:	8 volts
Low Battery Sense Voltage (Typical):	11 volts

#### Battery Types

Recommended Battery:	12 Volt SLA (gel) type, 7 Amp-Hour
----------------------	------------------------------------

#### Compliance

Electrical:	
Environmental:	

### Ordering Options



#### T4000

**998530** - Australia  
Network - Telstra/Optus

**998530NZ** - New Zealand  
Network - Vodafone NZ  
/Telecom NZ

### Accessories



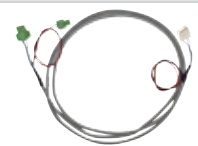
#### 999065

18VDC 1Amp plug pack  
power supply includes  
battery cables



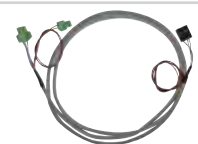
#### 995200XS

Extra Small Metal  
Enclosure



#### 996795

Integriti/Concept Port Zero  
Interface Cable



#### 996796

Integriti/Concept UART  
Interface cable



#### 994093

6.5dBi Hi-Gain Antenna,  
5m lead

#### 994094

4.5dBi Hi-Gain  
Antenna, 10m lead



#### 994097

Hi-Gain Directional  
Yagi antenna 6 Element  
9dBi, 10m lead

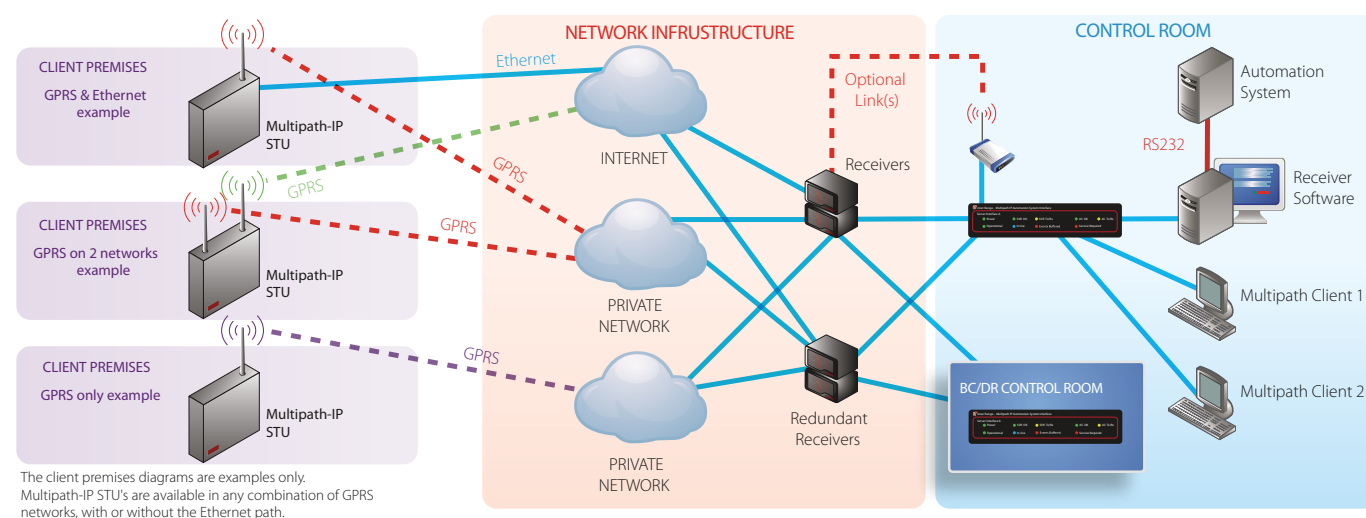


Multipath-IP is a state of the art multiple path IP alarm transmission system designed for low cost monitoring through to high security applications. Multipath-IP is a suite of products ranging from a variety of field hardware devices installed on the customer's premises to dedicated hardware systems 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 customers 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.



## Take command of your alarm system like never before and control your home or business from anywhere at any time.

SkyCommand gives you the freedom to control security areas, lights, heating/cooling and door access. SkyCommand is an easy to use web application that is designed for remote control of an alarm panel monitored by a Multipath-IP STU using a smart phone or tablet.

Utilising the high level integration to an Integriti or Concept system, SkyCommand provides powerful control over door access, security and automation. Third party alarms systems can also be controlled using the output on the Multipath device connected to key-switch input on the third party panel.

SkyCommand Features:

- Remote arm/disarm and home automation controls
- View real-time and historic alarm signals
- Live Multipath-IP device diagnostic information

To register for SkyCommand please visit <https://skycommand.innerrange.com>



# Power Supplies



Power Supplies



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 Integrity 8Amp Smart power supply delivers this very effectively.

When used with the Integrity 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 Integrity 8Amp Smart power supply is designed primarily for use as a battery-backed supply for Integrity modules supporting the Quick-Connect "External Power" bus connection, such as the Standard LAN Access Module (SLAM), the Integrity Intelligent LAN Access Module (ILAM), the Integrity 8 Zone LAN Expander and the Integrity Access Controller (IAC).\*

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

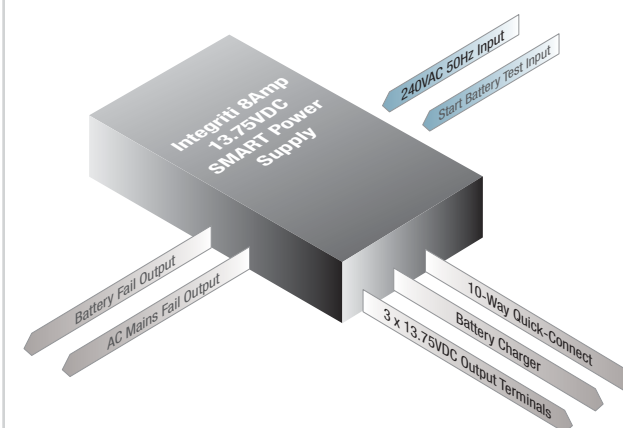
The Integrity 8Amp Smart power supply can also be used as a general purpose, battery-backed supply to power legacy or 3rd party equipment via the plug-on screw terminals.

*\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)*

## Features

- High level monitoring of PSU status (with Integrity modules)
  - Battery Fault, Low Battery and Battery Not Present
  - Battery Failed Test
  - AC Supply Failure
  - Supply Low Volts
  - Power Supply Failure
  - LAN+ Smart Fuse Tripped
  - Detector+ Smart Fuse Tripped
- Dynamic battery testing
- Deep Discharge battery protection
- Battery reverse polarity protection
- Quick-Connect PSU interface for Integrity 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



## Specifications

### Physical

Size:	274(L) x 100(W) 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

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

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
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### 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 Integrity 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
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### Safety Standards

AS/NZS 3820, Essential Safety Requirements for Electrical Equipment AS/NZS 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 placed on the mains cable (Würth 742 717 33)

### Compliance

Electrical:	
Environmental:	

## Ordering Options



### 996092

Integrity 8Amp 13.75VDC SMART Power Supply Module, PSU only (Available in Asia/Pacific region only)



### 995204PE8

Integrity WideBody Key-Lockable Enclosure fitted with 8Amp 13.75VDC SMART Power Supply Module (Available in Asia/Pacific region only)



### 995203PE8

Integrity Xlarge Enclosure fitted with 8Amp 13.75VDC SMART Power Supply Module (Available in Asia/Pacific region only)



### Power Supply Cables

#### 996792

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



#### 996794

Integrity PSU patch lead, 500mm 10way to Red&Black flying leads (Does not support SMART PSU status monitoring with Integrity 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 Integrity 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 Integrity 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 Integrity or Concept modules, detectors, readers and auxiliary devices such as strobes, sounders and locks.

## Features

- High level monitoring of PSU status (with Integrity modules)
- Quick-Connect PSU interface (for Integrity 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 Integrity 3Amp SMART power supply is designed primarily for use as a battery backed supply for Integrity modules supporting the 10-way Quick-Connect "External Power" bus connection, these modules include:

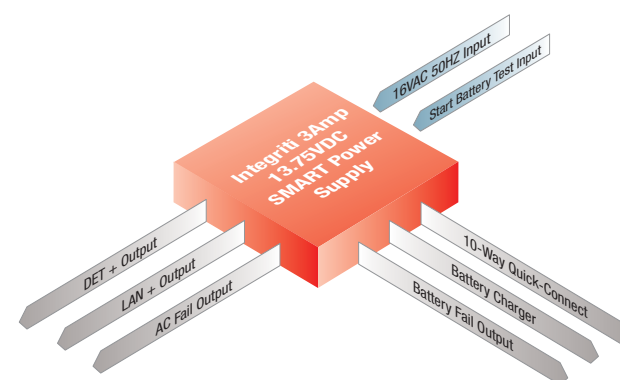
- The Integrity Standard LAN Access Module (SLAM)
- The Integrity Intelligent LAN Access Module (ILAM)
- The Integrity 8 Zone LAN Expander
- The Integrity Access Controller (IAC)\*

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



## Connectivity



*\* Within the Australia/Asia/Pacific region, the IAC is only available for approved Inner Range enterprise projects. Please contact Inner Range for further information. (This does not apply to U.K. or European region customers.)*

## 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

### High Level PSU Status Monitoring

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

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
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### 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 Integrity modules 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:	13.75V DC +/-5%, up to 3Amp. (battery fully charged)
Max Output Current:	3Amp with LK1 fitted 1Amp with LK1 removed
Switching Frequency:	370 kHz. approx.
Load Regulation:	+0 / -500mV @ Iout = 0.1A to 3.0A
Conversion Efficiency:	85%. approx
Output Ripple:	< 100mVRMS @ full load

### Battery Types

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

Electrical:	 
Environmental:	 

## Ordering Options



**996091PCB&K**  
Integrity 3Amp  
13.75VDC SMART  
Power Supply PCB &  
accessories



**995201PEI**  
Integrity Medium Enclosure  
fitted with 3Amp 13.75VDC  
SMART Power Supply and  
4Amp mains transformer



**995203PEI**  
Integrity Xlarge Enclosure  
fitted with 3Amp 13.75VDC  
SMART Power Supply and  
4Amp mains transformer



**Power Supply Cables**  
**996792**  
Integrity PSU patch lead,  
430mm 10way to 10way  
header (Supports SMART  
PSU status monitoring  
with Integrity modules and  
Integrity 3 & 8Amp SMART  
PSU's)



**996794**  
Integrity PSU patch lead,  
500mm 10way to Red&Black  
flying leads  
(Does not support SMART  
PSU status monitoring with  
Integrity 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 Integrity and Concept equipment enclosures, or supplied as a PCB module.

General Purpose Use

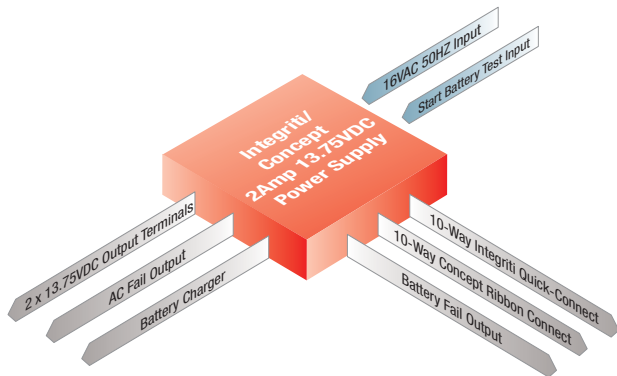
The Standard 2Amp power supply can also be used as a general purpose, battery-backed, 13.75VDC supply to power legacy or 3rd party equipment via the plug-on screw terminals. It is extensively used to power Integrity or Concept modules, detectors, readers and auxiliary devices such as strobes, sounders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



Features

- 10-way Quick-Connect output for Integrity 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
- Low level Battery Fail alarm output
- 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)

Connectivity



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 Integrity 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)
	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:	13.75V DC +/-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 @ Iout = 0.1A to 2.0A
Conversion Efficiency:	85%. approx
Output Ripple:	100mV RMS max. @ Iout = 2A


Battery Types

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

Electrical:	
Environmental:	

Ordering Options



**996090PCB&K**  
Integrity Standard 2Amp 13.75VDC Power Supply Module, PSU only



**995200PEI**  
Integrity/Concept Small Enclosure fitted with Standard 2Amp 13.75VDC Power Supply and 3Amp mains transformer



**Power Supply Cables**  
**996792**  
Integrity PSU patch lead, 430mm 10way to 10way header (Supports SMART PSU status monitoring with Integrity modules and Integrity 3 & 8Amp SMART PSU's)



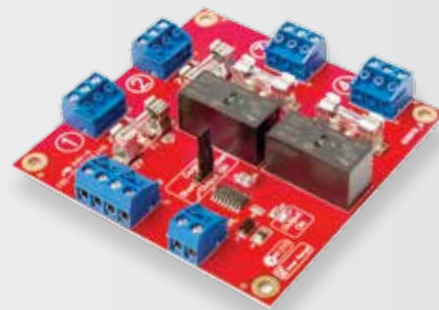
**996794**  
Integrity PSU patch lead, 500mm 10way to Red&Black flying leads (Does not support SMART PSU status monitoring with Integrity modules)



# Enclosures

## Switched DC Power Hub

The 4-way 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 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 system.



### Ordering Options

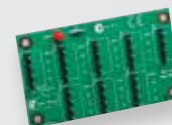
**995916** Switched DC Power Hub

## LAN Hubs & Power +/- Hub

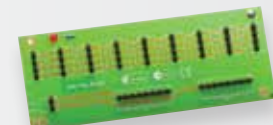
Four types of passive LAN HUBs are available for the distribution of Integriti or Concept RS-485 networks and detector +/- power. The 995911 provides a single 10 way HUB or can be broken into 3 to provide 2 x 3 way sections and 1 x 4 way. The 995915 provides a single compact 8 way HUB. The 995910 provides 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.



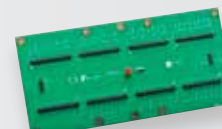
**995911**



**995915**



**995910**



**995914**

### Ordering Options

**995911** LAN Hub board (Breakaway Version)

**995915** Mini LAN Hub board 8 Way

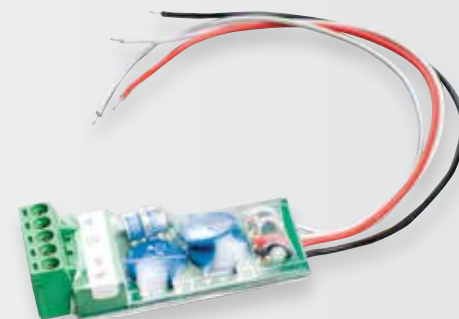
**995910** LAN Hub board 9 Way (With DET+ & 0V)

**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 electrical transient 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 LAN Surge Diverter

**995042** PSTN (Telecom) Line Surge Diverter





The Extra Small Enclosure is a new enclosure from Inner Range and is fabricated in the same robust style as the Small, Medium & Xtra Large Low profile Enclosures. The Extra Small Enclosures 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 via an external Plug Pack or 3rd party Power supply.

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

Physical

Enclosure Size	252(L) x 263(W) x 85(D)
Cable Entry Points	
Top	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)

The Small Enclosure (S) is a universal sturdy metal enclosure designed for general purpose installation of small size Inner Range Integrity or Concept equipment. The design allows for the a range of Integrity 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

Enclosure Size	252(L) x 263(W) x 85(D)
Cable Entry Points	
Top	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 Version 2Amp	See the Integrity 2Amp PSU Datasheet for Specifications

Ordering Options

995200PEI Small Enclosure Powered with 2Amp PSU  
995200PEEU Small Enclosure Powered with 2Amp PSU (Europe)  
995200 Small Enclosure (Enclosure Only)

Scan here for more layout examples:

Layout Options

Example 1

PCB Size B

Battery 9Ah

Example 2

PCB Size C

PCB Size C

Battery 9Ah

Scan here for more layout examples:

Layout Options

Example 1

PCB Size C

PCB Size B

3Amp Transformer

Battery 9Ah

Example 2

PCB Size C

PCB Size C

PCB Size C

3Amp Transformer

Battery 9Ah

The Integrity Medium Enclosure (M) is a universal sturdy metal enclosure designed for general purpose installation of Integrity Controllers, UniBus Devices and Integrity LAN Modules and is backwards compatible with some Concept modules. The flexible design allows for a range of Integrity equipment to be fitted in various custom configurations to meet many installation requirement.

Features

- Robust metal enclosure
- Designed for universal installation requirements
- Version to suite Integrity Controllers and Modules
- Mounting options for 17Ah or 9Ah Lead Acid Batteries
- Low Profile design Size 460(L) x 358(W) x 85(D)
- Suitable for Integrity (or Concept) medium size equipment mounting plates

Designed for house Integrity PCB's

- Integrity Controllers
- Integrity 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	
Top	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 Version 3Amp	See the Integrity 3Amp SMART PSU Datasheet for Specifications

Ordering Options

995201PEI Medium Enclosure powered with SMART 3Amp PSU  
995201PEEU Medium Enclosure powered with SMART 3Amp PSU (Europe)  
995201 Medium Enclosure (Enclosure Only)

The products listed above are Integrity versions are are not compatible with some Concept PCB's

Scan here for more layout examples:

Layout Options

Example 1

PCB Size B

PCB Size A

PCB Size C

4Amp Transformer

Battery 18Ah

Example 2

PCB Size B

PCB Size A

PCB Size C

PCB Size B

4Amp Transformer

Battery 9Ah



The Extra Large Enclosure (XL) is a universal sturdy metal enclosure designed for general purpose installation of either Inner Range Integrity or Concept equipment. The flexible design allows for the complete range of Integrity 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 XL's low profile side elevation protrudes less than 90mm from the mounting surface.

Features

- Robust metal enclosure
- Designed for universal installation requirements
- Suitable for Integrity Controllers and Modules
- Suitable for Concept Controllers and Modules
- Mounting options for 17Ah 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 Integrity or Concept medium or large size equipment mounting plates

Designed for a range of Integrity or Concept Products

- Integrity Controllers (IAC or ISC)
- Integrity LAN Modules
- Integrity UniBus Expansion Devices
- Concept Controllers
- Concept LAN Modules
- Concept peripheral Devices

Specifications

<b>Physical</b>	
Enclosure Size	702(L) x 358(W) x 85(D)
<b>Cable Entry Points</b>	
Top	2 x 25mm Round Conduit Punch-outs
	1 x 25x50mm Punch-out
	1 x 50x50mm Punch-out (with 25mm round inset)
Base	1 x Power Entry
	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
<b>Powered Versions</b>	
3Amp	See the Integrity 3Amp SMART PSU Datasheet for Specifications
8Amp	See the Integrity 8Amp SMART PSU Datasheet for Specifications

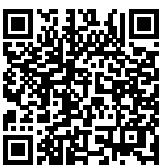
Ordering Options

- 995203PE8** Extra Large Enclosure powered with SMART 8Amp PSU
- 995203PEEU8** Extra Large Enclosure powered with SMART 8Amp PSU (Europe)\*
- 995203PEI** Extra Large Enclosure powered with SMART 3Amp PSU
- 995203PEEU1** Extra Large Enclosure powered with SMART 3Amp PSU (Europe)
- 995203** Extra Large Enclosure (Enclosure Only)

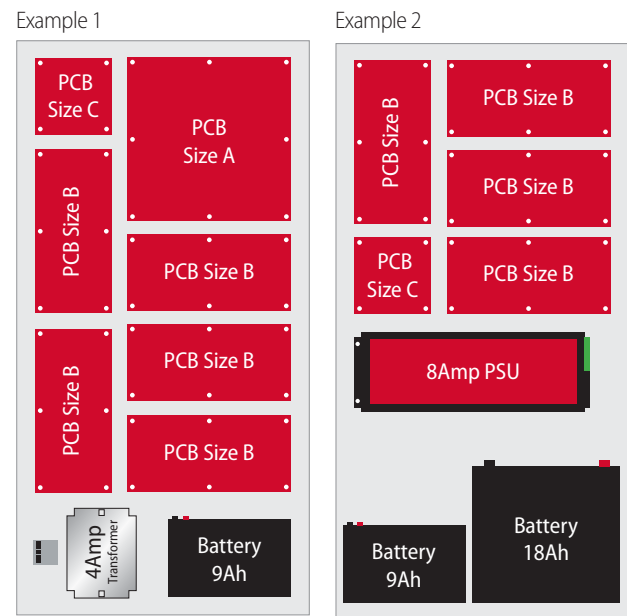
\*Product not available at time of printing



Scan here for more layout examples:



Layout Options



The WideBody Enclosure (WB) is a key lockable sturdy metal enclosure designed for installation of Integrity Access Control solutions where all the Integrity equipment, 8Amp power supply and back-up 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 in order to provide Access Control for the entire facility, while keeping the total quantity of installed enclosures to a minimum.

The enclosures 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 Integrity Products

- Integrity Access Controller (IAC)
- Intelligent LAN Access Module (ILAM)
- Integrity LAN Zone Expanders
- 8Amp SMART Power Supply
- 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 Integrity equipment mounting plate
- Hinged Expansion Plate available (Part 999027)

Specifications

<b>Physical</b>	
Enclosure Size	595(L) x 512(W) x 95(D)
<b>Cable Entry Points</b>	
Top	4 x 25mm Round Conduit Punch-outs
	2 x 50x50mm Punch-out (with 25mm round inset)
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
<b>Power Supply</b>	
3Amp	See the Integrity 3Amp SMART PSU Datasheet for Specifications
8Amp	See the Integrity 8Amp SMART PSU Datasheet for 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

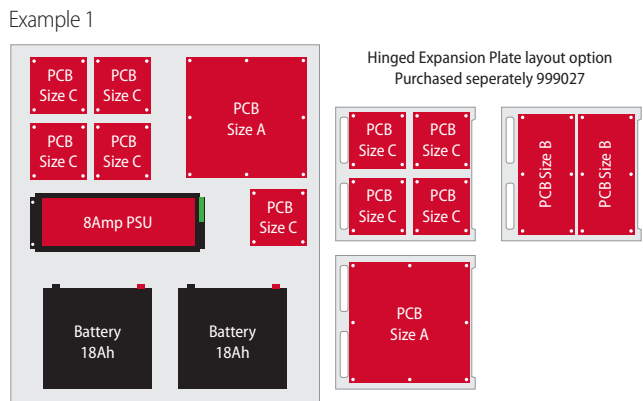
\*Product not available at time of printing



Scan here for more layout examples:



Layout Options





The Inner Range Rack Mount Drawer provides a high security tamper monitored 2RU Rack Mounting solution for Integrity 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, 7Ah 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

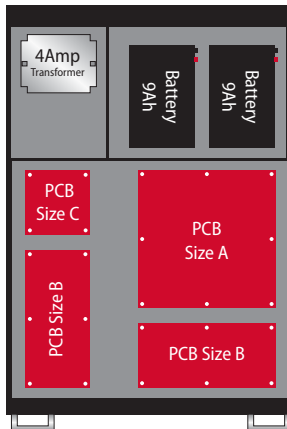


Scan here for more layout examples:

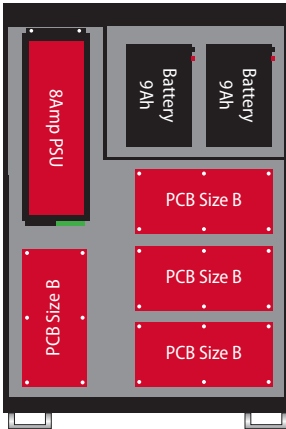


Layout Options

Example 1



Example 2



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

Specifications

Electrical Specifications (Powered Version Only)	
Mains Input:	240V AC, 50Hz
Power Supply Input:	16V AC @ 3A. (From Transformer provided)
Output Voltage:	13.8V DC +/-2%
Maximum Output Current:	3 Amps.
Output Ripple:	<100mV RMS max. @ full load.
Conversion Efficiency:	85%. approx.
Load Regulation:	+/- 500mV @ Iout = 0.1A to 3.0A.
Mechanical Specifications	
Dimensions: Length:	680mm including cable tray and front handles (cable tray 80mm, handles 40mm, drawer 600mm) Width: 420 mm. Depth: 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

- 995220PEI
- Rack Drawer powered with SMART 3Amp PSU
- 995220PEEU1
- Rack Drawer powered with SMART 3Amp PSU (Europe)
- 995220
- Rack Drawer (Drawer Only)
- 995220PE8
- Rack Drawer powered with SMART 8Amp PSU\*
- 995220PEEU8
- Rack Drawer powered with SMART 8Amp PSU (Europe)\*

\*Product not available at time of printing

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# Smart Choices 101


The University of Western Sydney 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, UWS 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, whilst 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.
- 

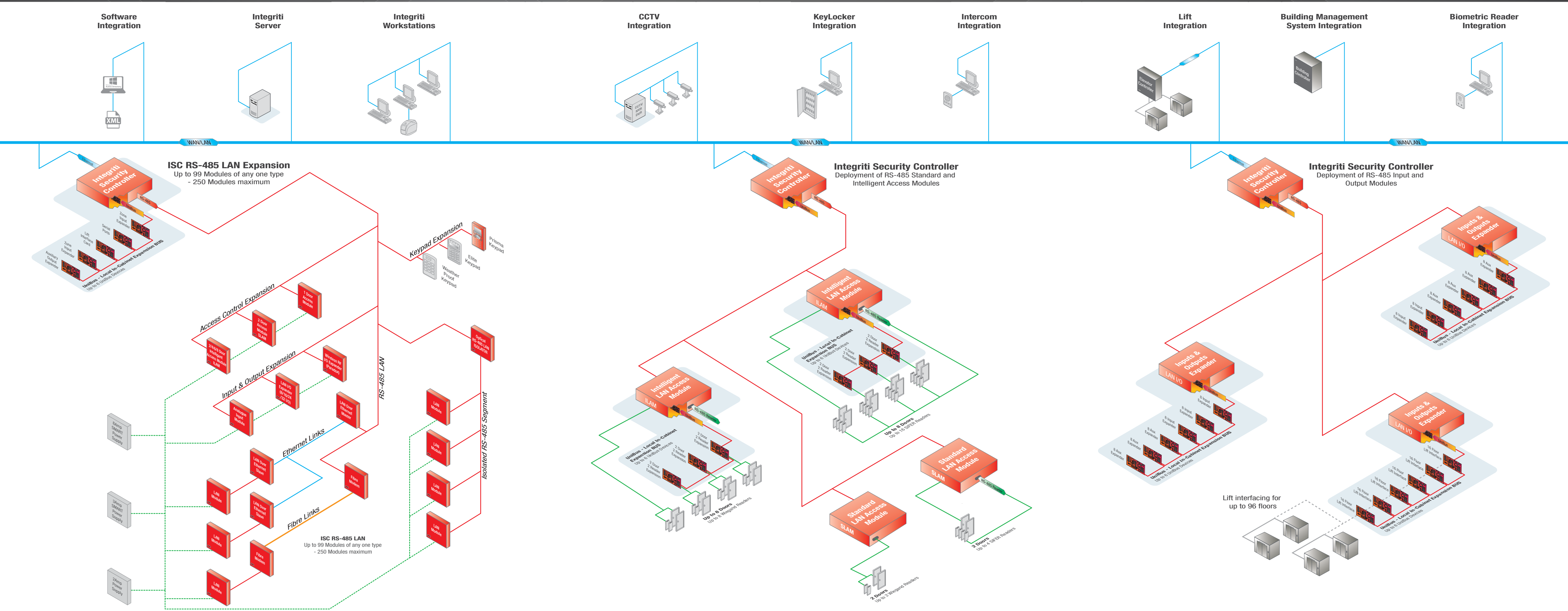
While Inner Range does make Software Maintenance Agreements (SMA's) available it does not impose annual license fees or mandatory SMA's. Consider the Total Cost of Ownership over the system's lifetime when comparing an Inner Range system to others. You'll be pleasantly surprised.

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

Please contact Inner Range Professional Services for further details.  
[professionalservices@innerrange.com](mailto:professionalservices@innerrange.com)  
+61 3 9780 4300







## 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 recommend that customers use a Factory Certified Professional Technician whose certification level suits their particular application. Certified Professionals are found at Accredited Dealers. A list of current Accredited Dealers can be found at: [www.innerrange.com/Sales](http://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 Integrity systems.  
E.g.: a small business.



## Advanced Technician

Medium to high complexity Integrity 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. These ID cards should be available to be shown if requested.



## Australia

Inner Range Pty Ltd  
 1 Millennium Court  
 Knoxfield, Victoria, 3180, Australia  
 Tel: +61 3 9780 4300  
 Fax: +61 3 9753 3499  
 email: admin@innerrange.com



## Europe

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

[innerrange.com](http://innerrange.com)