



Integrati Installer Brochure
Access Control
Integrated Security
Building Automation



Integrati Technology

The Integrati 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, Integrati 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, Integrati hardware is natively IP and ready to deliver on its promises.

Integrati 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.

Integrati Introduction for System Integrators

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

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



Apple and Android Apps

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

The Software

The Integriti System Management Suite is a true cutting-edge solution. Featuring the very latest technologies, Integriti has been designed from the ground up for the Internet Age.

The architecture of the Integriti 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, Integriti can do it!" more often.

Integriti Professional offers everything your customer will need for complete system management. Integriti includes two applications; Integriti GateKeeper for everyday control and monitoring, Integriti 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.

Integriti Professional caters for even the largest of enterprise sites. Integriti 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. Integriti Professional also supports a wide range of integration options to existing HR systems and a variety of third party products.

An Express version of Integriti 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. Please refer to the Inner Range website for further details.

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



Software Features at a Glance



Complete alarm management with powerful automated actions.



Email, text messaging and pager communications.



Programming and commissioning time significantly reduced via automated processes.



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



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



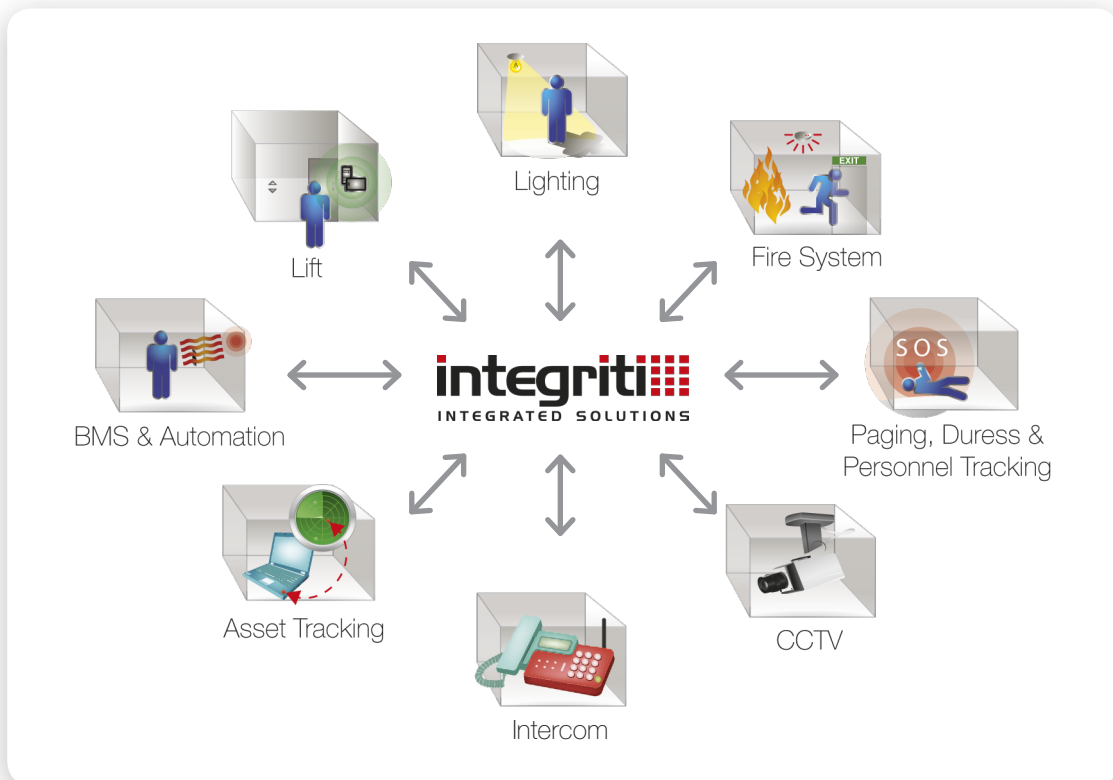
Forensic audit trail recording every programming change with ability to "roll-back" any change.



Modern design, intuitive and simple to use.

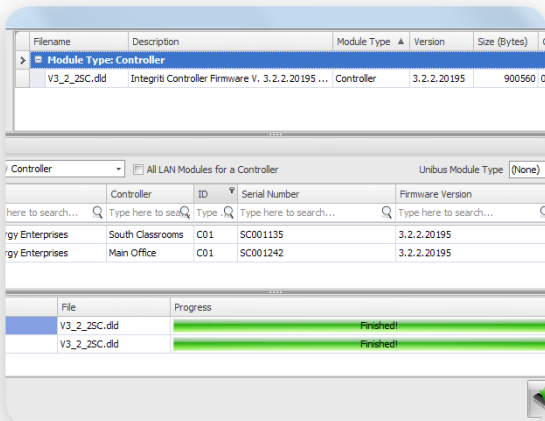


Complex automation logic now a breeze.

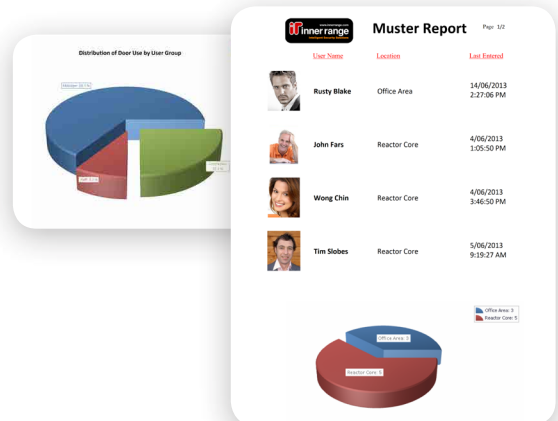




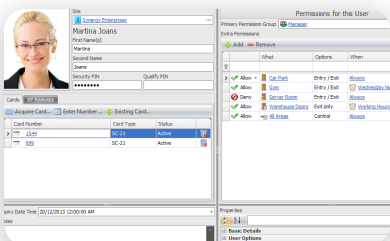
Upgrade firmware for all Integrati hardware modules.



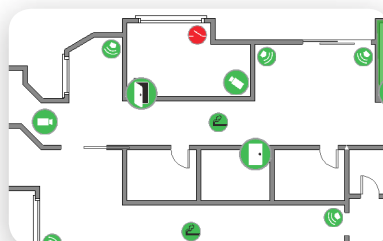
Easy-to-use reporting such as Time on Site, Muster and detailed commissioning reports.



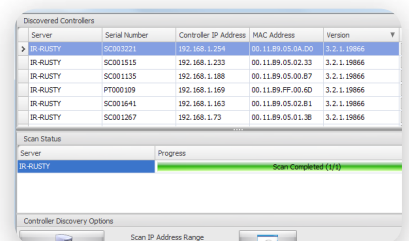
Build cardholder profiles by assigning multiple permissions with simple "Allow" or "Deny" functions.



Rich graphics with interactive floor plans and maps.



Automatic controller discovery with one-click enrollment.



Integriti Hardware

Three main hardware components make up an Integriti system:

1 Controllers

2 Field Modules
(via RS-485 or IP LAN)

3 Local Expansion Devices
(via UniBus)

Integriti Security Controller (ISC)



16D, 200U, 100Z, 10,000E
Code: 21001
A state-of-the-art IP based Integrated Security & Access Controller with powerful embedded processors and extensive on board memory.

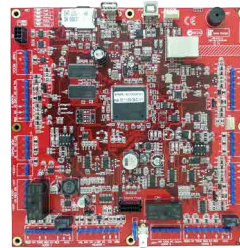
The ISC is equipped with:

- 6 Zone Inputs
- 2 Auxiliary Relay Outputs
- Power Supply with Smart Fuses
- Siren & Watchdog Outputs
- Ethernet, USB & Modem Ports
- Can be used both standalone or expanded further via its local UniBus & 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
- Over 1,000 Card Readers
- 240 Doors
- Further options are available where more than 100,000 users are required

Integriti Access Controller (IAC)



24D, 65,000U, 512Z, 100,000E
Code: 21011
A state-of-the-art IP based dedicated Access Controller. The IAC is fully intelligent, supports up to 8 local doors directly and can be expanded further via its Sub-LAN.

The IAC is equipped with:

- 2 Doors and 4 Wiegand Card Reader Ports
- Watchdog Output
- Ethernet & USB Ports
- Dedicated reader RS-485 port for Inner Range SIFER and OSDP compatible card readers
- UniBus 2 Door/2 Wiegand Port expansion boards can be added to the IAC to support 4, 6 or 8 local doors

The flexible, modular design of the IAC'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
- 512 Zone Inputs
- 512 Outputs
- 80 SIFER Card Readers
- 40 Doors
- Further options are available where more than 100,000 users are required

Integriti Intelligent LAN Access Module (ILAM)



Code: 21150
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# 20500).

The base module supports:

- 2 Doors & 2 Wiegand Card Readers
- 16 Inner Range SIFER Card Readers
- Expandable up to 8 Doors & 8 Wiegand Card Readers with the simple addition of UniBus 2 Door / 2 Reader Expanders
- Only compatible with the ISC.

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:

- 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 8 Zone LAN Expander



Code: 21120
The Integriti 8 Zone LAN Expander Module connects directly to the Integriti RS-485 LAN.

Provides an additional:

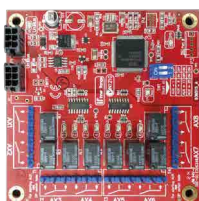
- 8 Zone Inputs
- 2 Auxiliary Outputs
- 2 Siren Drivers (fitted from PCB revision 'B')
- Up to 99 Zone Expander Modules can be connected to the Integriti RS-485 LAN or via IP LAN if connected with CLOE modules (Part# 20500)

Also offers a UniBus in-cabinet expansion interface, allowing further expansion of:

- Zone Inputs & 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)



UniBus Expansion



UniBus is an innovative in-cabinet bus allows:

- 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

		Host Modules				
		ISC	IAC	8 Zone Exp	ILAM	SLAM
UniBus Modules	8 Zone Exp	2	0	3	0	0
	8 Relay Exp	4	4	4	2	0
	16 Floor Lift	6	6	6	6	0
	2 Door Exo	0	3	0	3	0
	2 Way UART	4	4	0	0	0

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
- 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
- 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
- IP64 Rated and available with site specific encryption keys (available from Q3-2014)

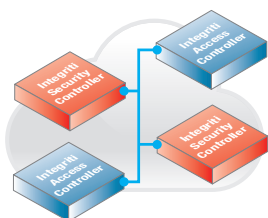
SkyTunnel



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

Advanced Peer-to-Peer Functionality



Integriti ISC & IAC 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 service 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 the other nominated controllers as a backup in the event the primary alarm controller is not available.
- Advanced Peer-to-Peer functionality, Global Anti-Passback & Cross-Controller logic mapping may be enabled via the addition of an Advanced Peer-to-Peer functionality license key on each controller.



Hardware Summary

Integriti Controller	Zone Inputs	Aux	Doors	Readers	Power Supply	On Board Cardholders	On Board Event Buffer
Integriti Security Controller (ISC) 16D, 200U, 100Z, 10,000E	16 Expandable to 32 Via UniBus. 3,000 Via LAN	2 Expandable to 32 Via UniBus. 3,398 Via LAN	240 Via LAN	480 Via LAN	2Amp On Board	200 Expandable to 100,000	10,000 Expandable to 100,000
Integriti Access Controller (IAC) 24D, 65,000U, 512Z, 100,000E	No Zones On Board. 512 Via LAN	No Auxiliaries On Board. 512 Via LAN	2 Expandable to 8 Via UniBus and up to 40 Via LAN	16 SIFER Readers or 4 Wiegand Readers Expandable to 10 Via UniBus. 80 SIFER Readers or 42 Wiegand Readers Via LAN	Optional 2, 3 or 8Amp Via External PSU Connector	65,000 Expandable to 100,000	60,000 Expandable to 100,000

Integriti LAN Modules	Zone Inputs	Aux	Doors	Readers	Power Supply
Intelligent LAN Access Module (ILAM)	Door Zone Inputs Per Door: Reed, Tongue, REN, REX & ARIM	Door Auxiliary Outputs Per Door: Lock, DOTL, Valid & Invalid	2 Expandable to 8 Via UniBus	16 SIFER Readers or 2 Wiegand Readers Expandable to 8 Via UniBus	Optional 2, 3 or 8Amp Via External PSU Connector
Simple LAN Access Module (SLAM)	Door Zone Inputs Per Door: Reed, Tongue, REN, REX & ARIM	Door Auxiliary Outputs Per Door: Lock, DOTL, Valid & Invalid	2	4 SIFER Readers or 2 Wiegand 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
SALTO SALLIS 8 Door Interface	-	-	Up to 8 SALTO SALLIS doors connected via SALTO RS-485 LAN	Up to 8 SALTO SALLIS readers connected via SALTO RS-485 LAN	Optional 2, 3 or 8Amp Via External PSU Connector

Integriti 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 ARIM	-	2	2 (Wiegand)	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

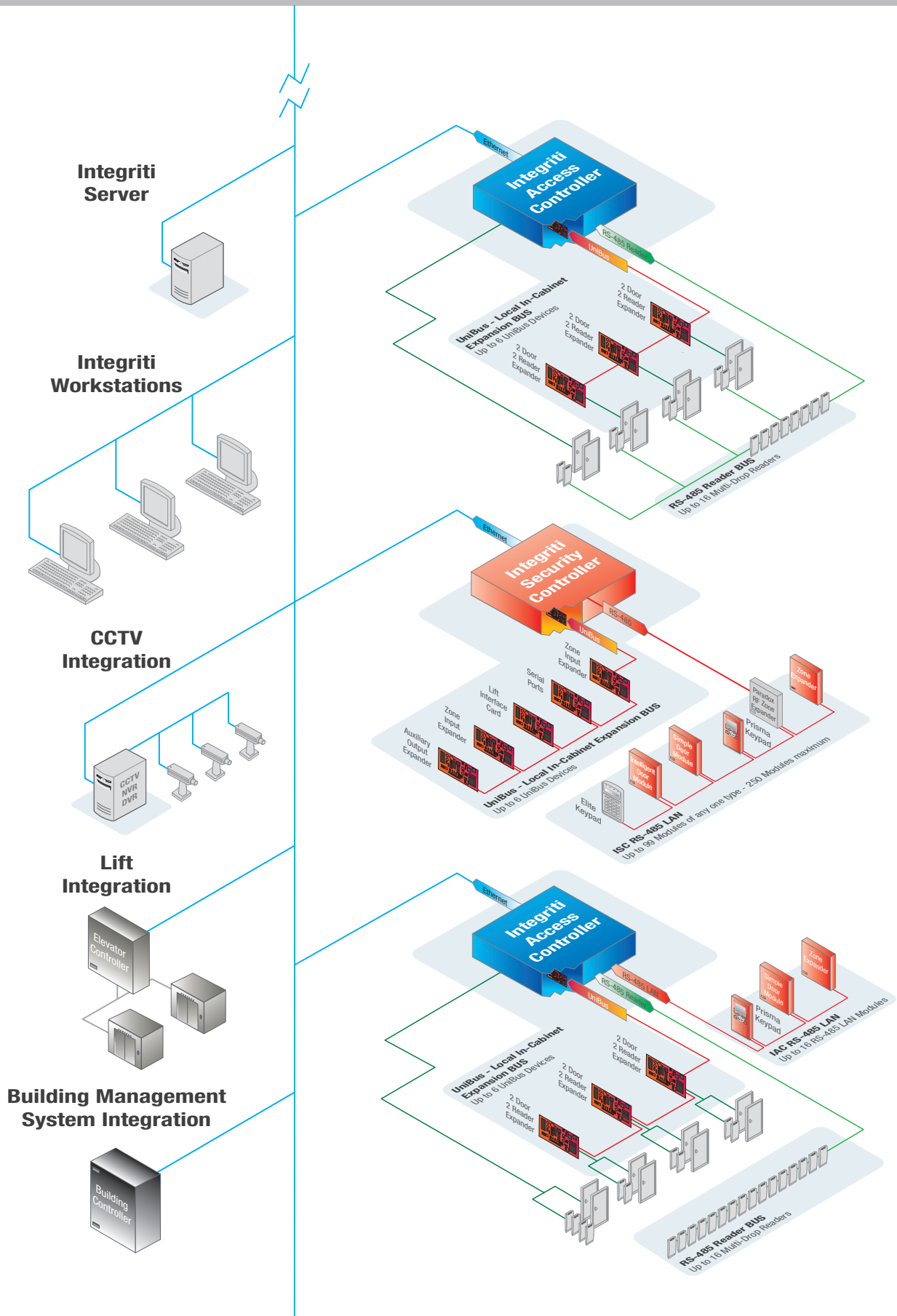
Miscellaneous	Notes
SIFER Smart Card Reader	Secure AES fully encrypted RS-485 multi-drop card reader
Switched DC Power Hub	1 input / 4 outputs DC power distribution hub

** Product scheduled for future release at time of publication

Integriti's Backward Compatibility with Concept 4000 Modules

Integriti Security Controllers are backwardly compatible with all 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 Integriti system. Please refer to the Inner Range website or contact Atlas Gentech technical support for further details.

Deployment Architecture





Enclosure Options



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.

PCB Sizes

Size "A"

200(L) x 200(W) x 45(D)mm



- Integriti Security Controller (ISC) - 16D, 200U, 100Z, 20,000E
- Integriti Access Controller (IAC) - 24D, 65,000U, 512Z, 100,000E

Size "B"

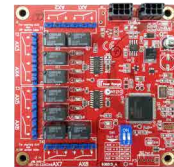
200(L) x 94(W) x 45(D)mm



- ILAM
- 8 Zone LAN Expander
- Unibus 2 Door / 2 Reader Expander
- 16 UnibusFloor Lift Interface

Size "C"

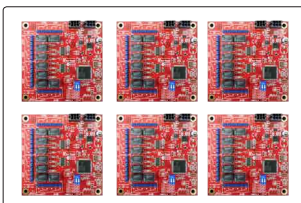
94(L) x 94(W)mm



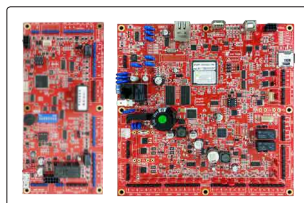
- 2 Amp Power Supply Unit
- 3 Amp Smart Power Supply Unit
- Unibus 8 Zone Expander
- Unibus 8 Relay Expander
- Unibus 2 Way UART

Chassis Sizes / Configurations

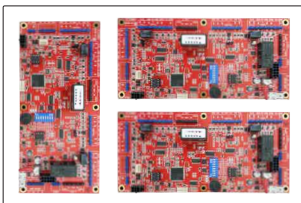
Standard Chassis (1 + 1)



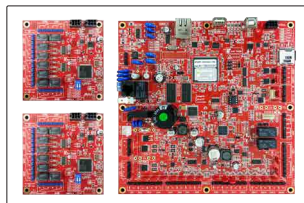
- 6 x "C" or



- 1 x "A" and 1 x "B" or

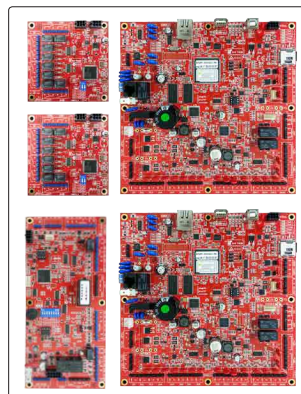


- 3 x "B" or

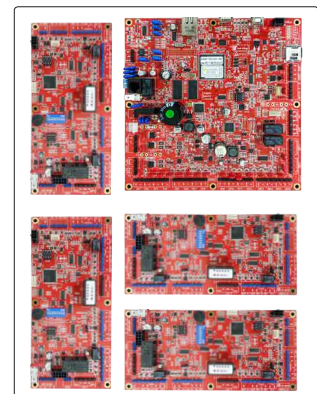


- 1 x "A" and 2 x "C"

Large and Mega Chassis (2 + 2)



*2 x "A" and 1 x "B" and 2 x "C" or



**1 x "A" and 4 x "B"

- 12 x "C"
- 6 x "B"
- 2 x "A", 2 x "B"
- 2 x "A", 4 x "C"
- 2 x "A", 1 x "B", 2 x "C"

- 1 x "A", 4 x "B"
- 1 x "A", 8 x "C"
- 1 x "A", 3 x "B", 2 x "C"
- 1 x "A", 2 x "B", 4 x "C"
- 1 x "A", 1 x "B", 6 x "C"

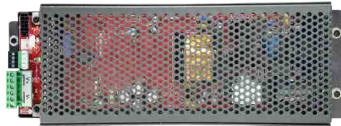
Power Supply Options



2 Amp PSU



3 Amp Smart PSU



8 Amp PSU

Battery Options



7.0 AH Battery



18.0 AH Battery

Transformer Options



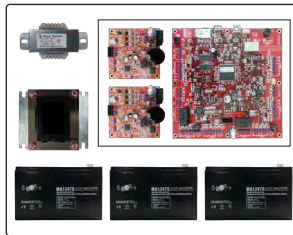
40 VA Transformer



75 VA Transformer

Cabinet Options / Configurations

Standard Cabinet
460(W) x 370(H) x 100(D)mm



The above Standard Cabinet is showing:

- 1 x IAC
- 2 x 3 Amp PSU
- 3 x 7.0 AH Batteries
- 1 x 75 VA Transformer
- 1 x 40 VA Transformer

Battery

- 3 x 7.0 AH

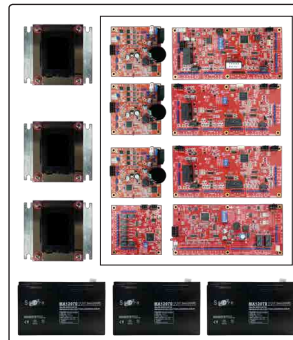
Chassis

- 1 x Standard Chassis

Transformer

- 2 x 75 VA or
- 2 x 40 VA or
- 1 x 75 VA and 1 x 40 VA

Large Cabinet
460(W) x 600(H) x 100(D)mm



The above Large Cabinet is showing:

- 1 x Unibus 8 Relay Expander
- 1 x ILAM
- 2 x Unibus 2 Door / 2 Reader Expander
- 1 x 8 Zone LAN Expander
- 3 x 7.0 AH Batteries
- 3 x 3 Amp PSU
- 3 x 75 VA Transformers

Battery

- 3 x 7.0 AH

Power Supply

- 1 x 8 Amp PSU

Chassis

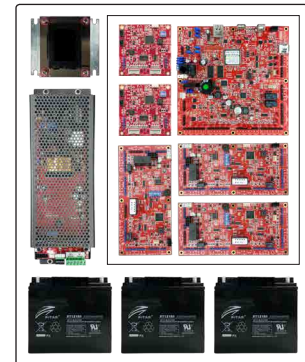
- 1 x Large Chassis

Transformer

- up to 3 x 75 VA or
- up to 3 x 40 VA

Note: if not using 8 Amp PSU

Mega Cabinet
560(W) x 660(H) x 170(D)mm



The above Mega Cabinet is showing:

- 1 x ISC
 - 2 x Unibus 2 Port UART
 - 1 x ILAM
 - 2 x Unibus 2 Door / 2 Reader Expander
 - 3 x 18.0 AH Batteries
 - 1 x 8 Amp PSU
 - 1 x 75 VA Transformer
- Note: The Mega Cabinet can still hold:
- 1 more Mega Chassis
 - 1 more 8 Amp PSU
 - 3 more 18.0 AH Batteries

Battery

- 6 x 18.0 AH or
- 8 x 7.0 AH or
- 4 x 18.0 AH and 4 x 7.0 AH

Power Supply

- 2 x 8 Amp PSU

Chassis

- 2 x Mega Chassis

Transformer

- up to 3 x 75 VA or
- up to 3 x 40 VA

Note: if not using 8 Amp PSU



Ordering Options

ISC and IAC licenses are available to expand the number of Doors, Zones, Users and Review Events. Licensed Level upgrades are described in the table below. Integriti Professional Software supports 16 doors, with additional door licenses above 16 doors purchased separately. If you have any questions, please contact your Atlas Gentech Account Manager.

Atlas Gentech Auckland
76 Carbine Road, Mt Wellington
Private Bag 14927, Panmure
+64 9 574 2700

Atlas Gentech Wellington
25 Centennial Highway, Ngauranga Gorge
PO Box 13-570, Johnsonville
+64 4 477 9142

Atlas Gentech Christchurch
112 Wordsworth Street, Sydenham
PO Box 7692, Sydenham
+64 3 379 7926

DESCRIPTION	CODE
INTEGRITI CONTROLLERS	CODE
Integriti - Security Controller (ISC) - Standard Cabinet - 16D, 200U, 100Z, 10,000E	21001
Integriti - Access Controller (IAC) - Standard Cabinet - 2A PSU - 24D, 65,000U, 512Z, 100,000E	21011
OTHER	CODE
Integriti - SIFER Smart Card Reader	TBA

CONTROLLER HARDWARE SMART CARD LEVELS	CODE
Integriti - Smart Card - Level 0 - Blank	21050
Integriti - Smart Card - Level 1 - 40D, 2,000U, 200Z, 20,000E	21051
Integriti - Smart Card - Level 2 - 80D, 10,000U, 600Z, 30,000E	21052
Integriti - Smart Card - Level 3 - 160D, 65,000U, 2,000Z, 60,000E	21053
Integriti - Smart Card - Level 4 - 240D, 100,000U, 3,000Z, 100,000E	21054
Integriti - Smart Card - IAC Expanded Mode (40D, 100,000U, 512Z, 100,000E)	21079

CONTROLLER HARDWARE SMART CARD OPTIONS	CODE
Integriti - Smart Card - 5 User iPhone/iPad Interface	21069
Integriti - Smart Card - HLI - Building Management System	21070
Integriti - Smart Card - HLI - Elevator Management System	21071
Integriti - Smart Card - HLI - Salto Sallis Door License (Per Door)	21072
Integriti - Smart Card - HLI - High Security Fence	21073
Integriti - Smart Card - HLI - Cbus Lighting Integration	21074
Integriti - Smart Card - HLI - Bacnet/IP, Modbus, KNX	21075
Integriti - Smart Card - Virtual Expander Modules (Per Module)	21076
Integriti - Smart Card - Advanced Peer To Peer Functionality	21078

INTEGRITI RS-485 LAN MODULES & UNIBUS DEVICES	CODE
Integriti - LAN - Prisma Terminal - White	21100
Integriti - LAN - 8 Zone Expander - PCB	21120
Integriti - LAN - Simple LAN Access Module (SLAM) - PCB Only	21140
Integriti - LAN - Intelligent LAN Access Module - PCB Only	21150
Integriti - UniBus - 8 Zone Expander	21200
Integriti - UniBus - 8 Way Aux Relay Card (1A @ 24VDC)	21211
Integriti - UniBus - 2 Door Expander	21220
Integriti - UniBus - 2 Port Serial Interface	21230
Integriti - UniBus - Lift Button-Feedback Interface	TBA
** Integriti - UniBus - Advanced Analogue Input Card	TBA
** Integriti - UniBus - Additional Ethernet Port	TBA

** Product scheduled for future release at time of publication

DESCRIPTION	CODE
INTEGRITI SOFTWARE PRODUCT KEYS	CODE
Integriti - Software - Professional - 1 Controller - 1 Client - 16 Doors	21500
Integriti - Software - Express - Fixed at 1 Controller - 1 Client - 16 Doors	21501
Integriti - Software - Express to Professional Upgrade	21505
Integriti - Software - CS (Commissioning Software) - Installer Use Only	N/A

INTEGRITI PROFESSIONAL SOFTWARE ADDITIONAL LICENSES	CODE
Integriti - Software - Allow RDP Remote Connections	21509
Integriti - Software - Extra Client - Fixed	21510
Integriti - Software - Extra Client - Floating	21515
Integriti - Software - Extra Panel	21520
Integriti - Software - CCTV (32 Cameras)	21525
Integriti - Software - CCTV Extra 8 Cameras	21530
Integriti - Software - Communicator - Email, SMS & Pager Communications	21535
Integriti - Software - Extra Door Permissions	21540
Integriti - Software - 3rd Party Interface - Read	21545
Integriti - Software - 3rd Party Interface - Write	21550
Integriti - Software - 3rd Party Interface - Control	21555
Integriti - Software - Photo ID	21560
Integriti - Software - Advanced Reports	21565
Integriti - Software - User Qualifications	21570
Integriti - Software - Advanced Alert	21575
Integriti - Software - Direct User Import Module (DUIM)	21580
Integriti - Software - Review I/O	21584
Integriti - Software - Bi-Directional Gateway Integration	21585
Integriti - Software - Active User Rotational Module (AURM)	21590
Integriti - Software - Active Directory Integration - Users	21594
Integriti - Software - Active Directory Integration - Operators	21595
Integriti - Software - HLI - Schindler PORT Lift Interface	TBA

INTEGRITI POWER SUPPLIES & ENCLOSURES	CODE
Integriti - 2A PSU - PCB only	21192
Integriti - 3A Smart PSU - PCB only	21193
Integriti - UniBus - Patch Cable 500mm six way	21296
Integriti - UniBus - Patch Cable 1000mm six way	21297
Integriti - 8A Smart PSU - Module	21198

* Product is available via the Inner Range Technology Partner Program