

Security Alarm

Access Control

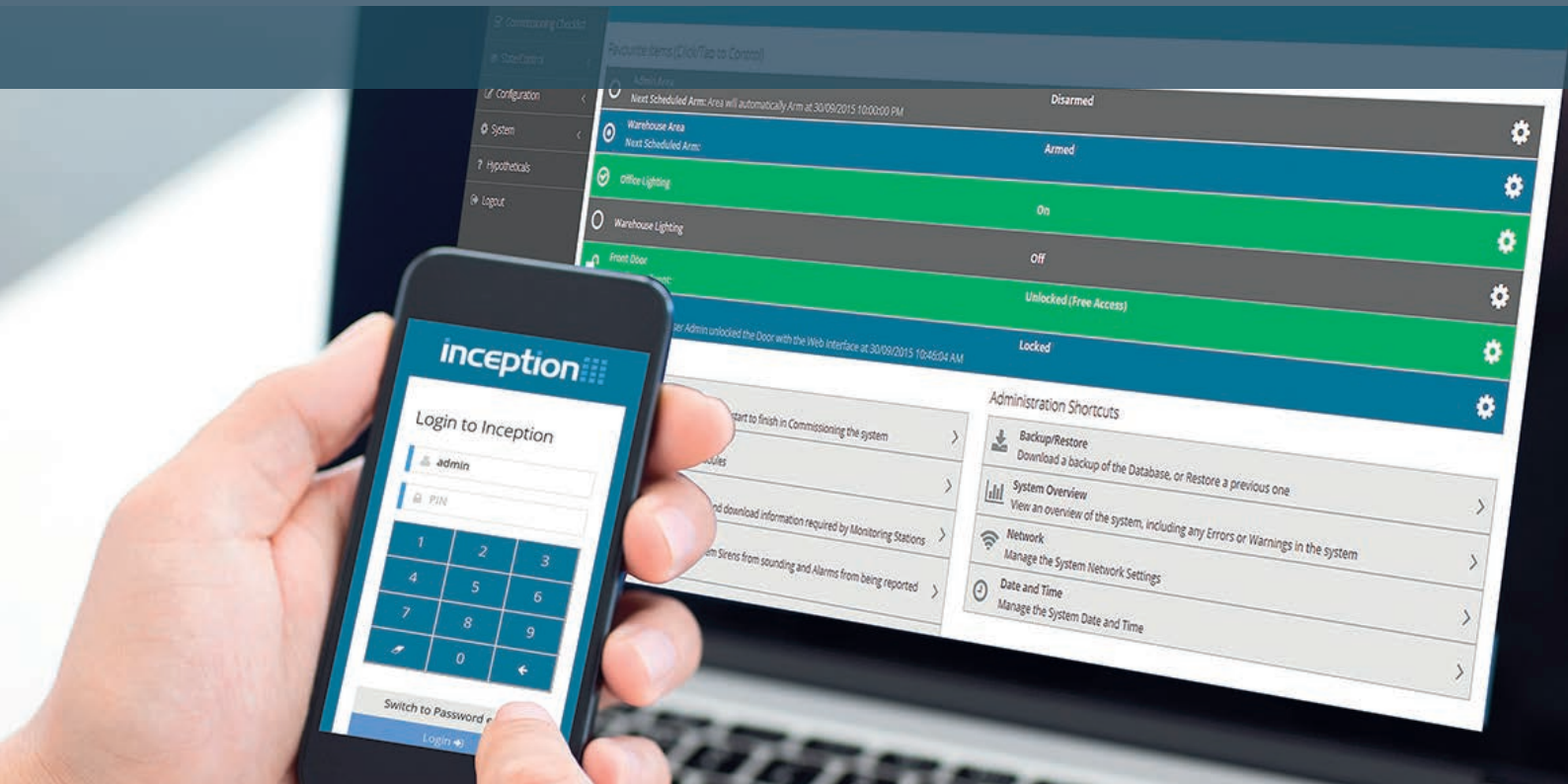
Custom Automation

No Software Required

Multiple Devices

Easy Setup Checklist Prompting

Send IP Alarms Via The Multipath -IP Network



Simple & Easy Installation
Integrated Security - Access Control

End User Brochure
2017/2018

Inception Features & Benefits

Simple & Easy Installation

Integrated Security - Access Control

Web Powered Convenience

With Inception there is no need to install software on a computer, no need to leave a computer on site and no issues with software/firmware compatibility. Instead, the installation process is as simple as powering up the controller, connecting the network cable (or use the optional Wi-Fi adapter) and using any web browser to navigate to Inception's web page. Here you will find everything you need to set-up, commission and operate the entire system.

End users can conveniently use any existing computer, tablet or smartphone to control their Inception system via the fully featured user interface.

Easy To Program & Easy To Commission

Inception's web interface features an industry-first interactive Commissioning Checklist that guides the technician through the commissioning process. When followed from start to finish, the configuration process can be completed efficiently in a logical way, minimising the risk of missing important configuration settings.

Technicians can commission a system with confidence, knowing that they have covered everything, from core programming, to custom automation, changing default credentials, backing up the database and downloading a commissioning report, without missing a step.

Inception's programming screens are presented in a simplified manner with unnecessary options out of view. The programming screens are concise and easy to navigate with built-in context-based help to provide on-screen detailed information to the installer.

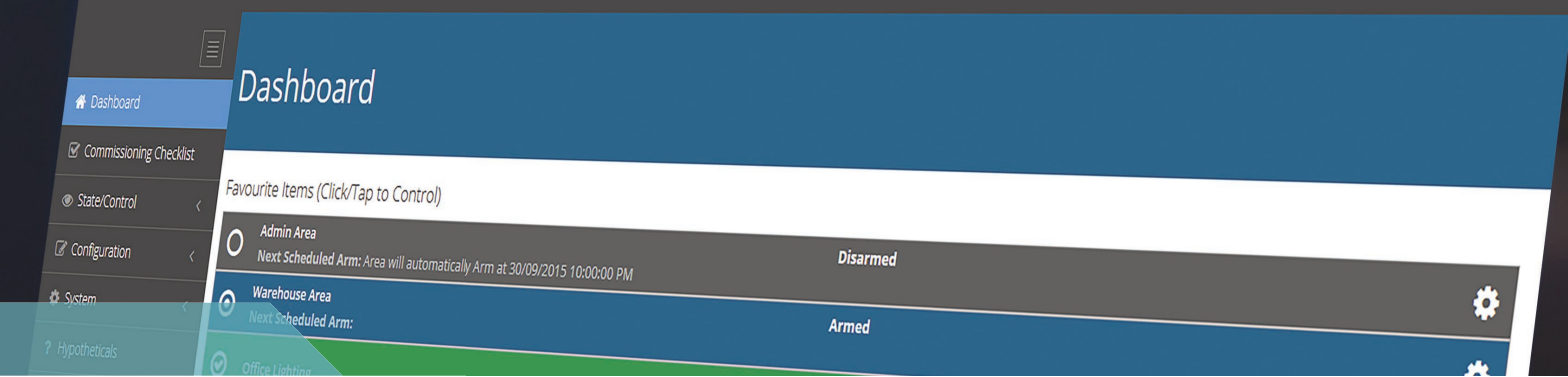
Universal Inputs & Outputs Provide Access Control And Security Monitoring Directly From The Controller

The Inception controller features 8 inputs and 4 relay outputs on-board. These inputs and outputs are truly universal. A mix of EOL (end of line) inputs and standard button/switch inputs can be used independently of each other, while the 4 relay outputs can be used to directly control door locks, powered siren modules or connect and control any device of your choice.

For example, using Inception's built in RS-485 reader port, up to 8 x SIFER card readers can be connected and used in conjunction with the 4 relay outputs to provide access control for four doors with read in and out control. The 8 inputs can then be used to connect PIR's or reed switches for security alarm purposes.

Expanding Inception

Inception allows for expansion via its on-board RS-485 LAN port. Keypads, access control modules and input/output expanders can be added to increase Inception's scope up to 32 doors, 512 inputs and 512 outputs.



Flexible Automated Responses

The Inception controller contains configuration options for many of the commonly used automatic responses in Intruder and Access Control systems. These could be tasks like turning on an output linked to a strobe during an area alarm for example, or turning on an output linked to a buzzer if a door is left open too long.

If more advanced or custom functionality is required, then Automated Actions are key. These would most often be simple automation cases such as turning on the lights when an area is disarmed, but have the flexibility to handle the very complicated scenarios that a client may dream up.

Automated actions are broken up into two parts; the trigger condition and the action responses. The trigger determines when actions should occur, while the action responses determine which actions to perform when the trigger condition becomes valid, and which actions to perform when it becomes invalid. These action responses can control the basic items in the system like outputs, areas and doors, but can also control the feedback tones on individual SIFER readers or siren devices.

The trigger for an action goes beyond the simple "Door is Unlocked/Locked" or "Area is Armed/Disarmed" cases, allowing doors to also trigger when opened, closed, locked out, forced, held open too long, or almost held open too long. Areas are also more advanced, allowing entry or exit mode, alarm active, input activity or many other states to trigger an action. Input, output and time period states can also be used as a trigger.

These flexible trigger conditions allow a wide variety of actions to automatically be performed in response to a wide variety of scenarios. Adding the ability to group many trigger conditions together into the one action wraps a very powerful feature into a very simple package.

Connect Using Wi-Fi

Inception's optional Wi-Fi adapter (purchased separately) provides a convenient wireless connection option. With two modes of operation, the Wi-Fi adapter can act as a handy technician's service tool or serve as a permanent wireless connection, to an available onsite wireless network.

1. Wireless Access Point mode allows installers to establish a wireless connection directly to the Inception controller. This avoids the need to find an IP address or connect to the client's local network. In this mode the Wi-Fi adapter can be used as a service tool, allowing the installer to configure/perform maintenance on site and simply remove the Wi-Fi adapter when done.

2. Client Mode allows Inception to connect to an existing Wi-Fi network for a permanent local network/Internet connection.



Inception Features & Benefits

SkyTunnel

Cloud Based Service Provider by Inner Range



SkyTunnel Makes Connectivity Simple

SkyTunnel is a cloud based service provided by Inner Range to deliver hassle-free connections of security system hardware and software over the internet. With Inception's built in SkyTunnel connection, having security alarms monitored and accessing Inception's web interface via the Internet is a straight forward process. All data is kept private and access to the site is locked thanks to SkyTunnel's secure SSL/TLS encrypted communications and authentication. All that is needed is an active internet connection.

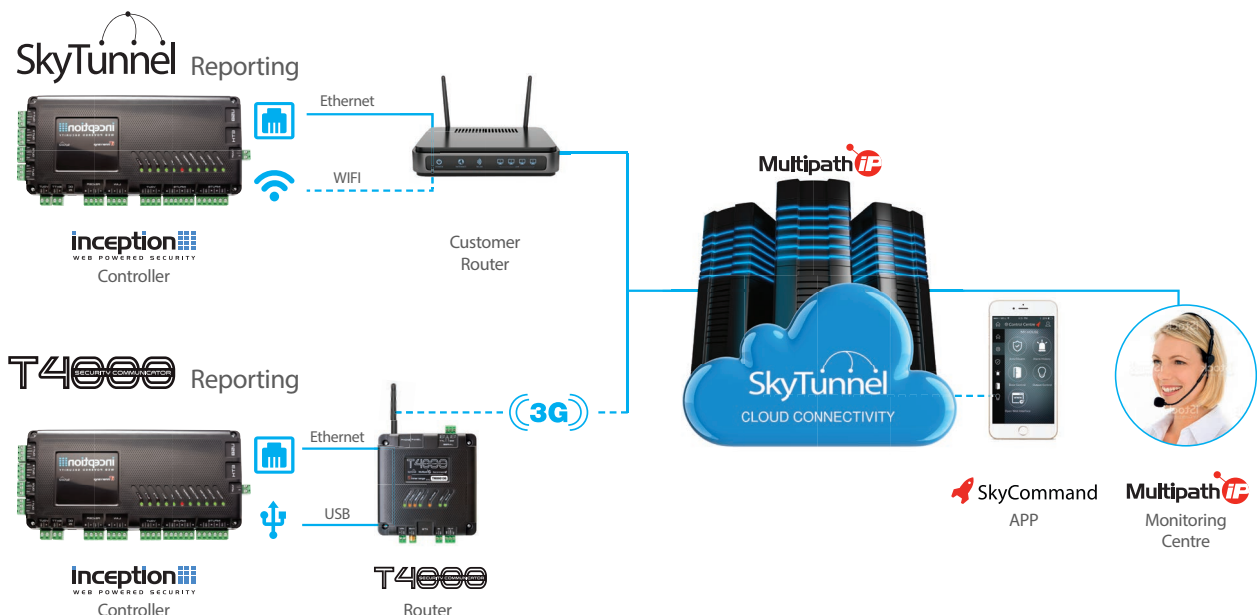
Access Inception Securely via the Internet

With a SkyTunnel connection in place, accessing the Inception controller is as easy as opening a web page and entering the controller's web address. Inception's web page is designed to be responsive, meaning that you can use the device of your choice, be it a computer, tablet or smart phone. Provided your device has a connection to the Internet, you can access Inception from any place at any time, with the protection of a secure connection*. To access Inception via SkyTunnel, simply scan the QR code on the Inception controller or enter the web address into your browser and you're up and running.

Reliable Alarm Monitoring

Monitoring alarms via Inception's SkyTunnel connection is just as convenient. Inception can be monitored by any central station offering monitoring services for Inner Range's Multipath-IP alarm transmission system. The Inception controller only needs access to the Internet via Ethernet or WiFi and once established setting up alarm monitoring is quick and easy using the SkyTunnel connection service.**

For a more advanced monitoring service, team up a Multipath-IP T4000 Security Communicator with your Inception controller. The T4000 can provide both wired and dual-network 3G wireless alarm communications to the Monitoring Station to ensure alarms are delivered every time.**



*The path from device through to the Inception controller is secure, with an AES encrypted connection between Inception and SkyTunnel, and HTTPS between SkyTunnel and the browsing device. Directly connecting to Inception over the Internet instead of via the SkyTunnel service is also possible, however setup of this is likely to require advanced configuration of your internet router by an IT professional and may not be as secure.

**Requires a monthly monitoring plan to be in place with your security installer or monitoring station.



Firmware Updates

Firmware updates for the Inception Controller are regularly released, adding new features to the product, enhancing existing features or fixing any issues as they are discovered. Each release is packaged with comprehensive release notes that explain everything there is to know about the new features or enhancements that are added, or the issues that have been resolved.

If the controller has a connection to SkyTunnel, it can know as soon as a new firmware release occurs, prompting with a "New Firmware Available" link at the top of the screen. From here, release notes can be downloaded from the controller to the browsing device to see what is new and the firmware can be pulled onto the device directly from SkyTunnel.

After a controller firmware update, it is important that all supporting modules and peripherals are also up to date. Inception takes care of this by highlighting any modules or peripherals that are out of date and by pre-packaging along all of the latest firmware files for each device, ready to be sent over the LAN. All of this can occur directly from the controller's web interface, with no need to hunt down each device's firmware and manually upload to the controller, however this is still an option if desired!

Free Online Training

Training is not a requirement to install the Inception product, with the Commissioning Checklist and the detailed onscreen help hopefully able to guide a new technician through his first use of the product. However, for those wanting extra information, self-paced online training is available via the Inner Range website; all that is needed is an Inner Range web account.

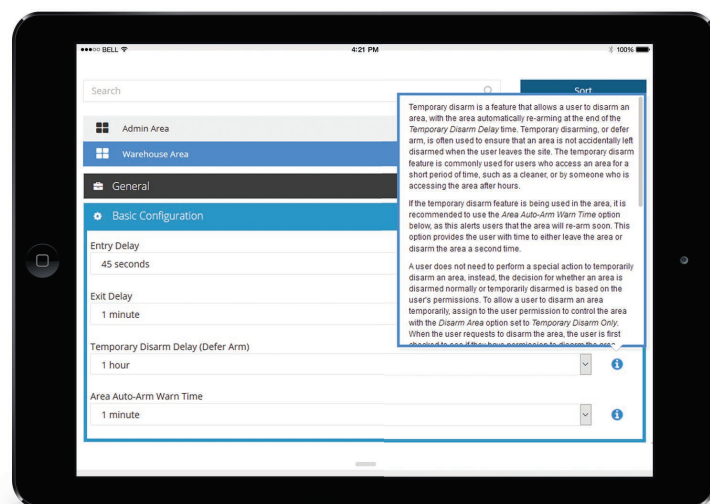
Training takes a look at the controller, LAN modules including wiring information and accessories, along with connectivity and installation information to get up and running. From there, a detailed programming scenario is worked through, resulting in a fully configured system.

Detailed Onscreen Help

Standard industry terminology and Inner Range terminology combine with plain English to create a product that tries to be as accessible as possible, regardless of a technician's background in the industry. However, a technician's experience can be wide-ranging; a veteran who has seen it all, a new player picking up their first controller, or a specialist in Access Control, Security or Automation looking to branch out. Creating a system to suit everyone's level of experience is no easy task.

No matter what a technician's experience level is with the product, Inception provides comprehensive, context specific help text throughout the web interface. Each web page has a page description at the top that can be expanded from a single sentence to generally at least 4 paragraphs of text, describing what the page offers and how to use the page. Each edit item has a tool tip icon next to it that when clicked, shows a pop up with generally at least 2 paragraphs of information, describing what the option does, why it does it, where it should be used, considerations to take when setting the option and any other options it affects.

If there is any doubt about what a feature or option does, there is detailed help close at hand.



Inception - SkyCommand



Smart Phone Control

Controlling and managing an Inception system on the go has never been easier. The SkyTunnel connection delivers the Inception web interface straight to a mobile device's web browser, automatically resized and adjusted to fit the device. Nothing is missing when compared to a computer's display, making remote control or maintenance of a system as accessible as possible.

The free SkyCommand smart phone app* simplifies control of the system even further. The app allows quick system arming and disarming, controlling of doors or outputs and viewing of live events with just a few taps of the screen. A shortcut to the Inception web interface via SkyTunnel is also available when more advanced control or maintenance is needed. The app is also capable of controlling many Inception or other Multipath-IP devices, removing the need for a client to keep track of multiple devices; instead, they are all at their fingertips.

Notifications

Inception is capable of sending notification messages via email or push notifications to a smart device, using clear, easy to read language. Configuration of notifications is incredibly flexible, allowing different users to be notified about different events at different times. Users can be notified about almost any type of event. For example, the system can be configured to send notifications whenever an alarm occurs in a particular area or access to a particular door is granted or denied. Notifications can also be sent when repeated failed login attempts are made on the web interface or Keypad, or if programming changes are made to particular entities. Maintenance events, such as power and battery issues can also be communicated.

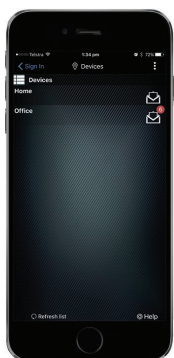
Push Notifications*

Inception push notifications are sent to smart devices using the SkyCommand app, which is available free for Android and iOS devices and can be installed on as many devices as necessary. In addition to push notifications SkyCommand also provides convenient control of the security system.

Connectivity with the Inception controller is made simple using the Inner Range SkyTunnel connection service.

Email

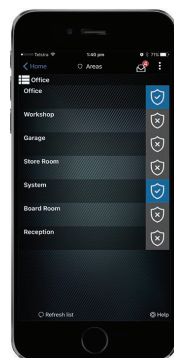
Email notifications can be used to notify multiple users about activity in the system. When multiple events need to be sent to a single user, they are consolidated into a single email message. This prevents the flooding of messages to the user's mailbox. Inception can be configured to send email using a local or public SMTP server, or via SkyTunnel for easy configuration.*



Multiple Sites



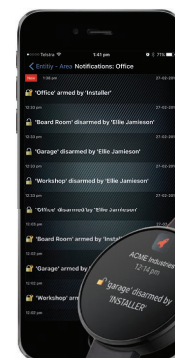
Easy Access



Multiple Areas



Simple Control



Notifications





SkyCommand Dealer Portal

Never before has it been more convenient for an installation company to remotely manage their customers ongoing security needs. Introducing the SkyCommand Dealer portal by Inner Range. The SkyCommand Dealer portal offers the perfect place for installation companies to manage all of their Multipath-IP devices including T4000, Inception** and SkyGuard devices.

Field Technicians

The secure and intuitive interface allows a field technician to view live event logs, utilise live diagnostics and access Inception web interfaces remotely from a Tablet or smart-phone. Site names and notes can be updated per-device, making searching for a specific client or system a breeze.

Installation Company

Devices can be enrolled or pre-enrolled with a monitoring centre to simplify the signup process when commissioning a new site. Adding and editing app users and their permissions can be done by any staff member without prior in-depth knowledge of the system. The suite of subscription services on offer, such as interactive control and notifications, are a powerful addition to the product offering.

Combining all of these tools in one place can streamline and enhance both the initial installation and ongoing maintenance processes for a company's clients.



* App support and push notifications are due for release in mid 2017. The app is free to download, however an affordable monthly subscription is necessary per controller that you wish to use SkyCommand services with. This allows the sending of email via SkyTunnel and allows the app (or multiple apps) to control the security system and receive push notifications on an ongoing basis.

**Linking Inception devices with the SkyCommand Dealer Portal is due for release in mid 2017

Simple plug and play technology



USB

For Wi-Fi Adaptor or Multipath-IP
T4000 Security Communicator



Ethernet Port

For network connection and IP alarm
communications via SkyTunnel



Tamper Input

Monitor Inception's outer enclosure to detect
any attempts to tamper with the controller



LED Indicators

Quickly see the status of Inception's
system, connections and outputs



8 Universal Inputs

Monitor a mix of EOL devices,
buttons, switches or doors



Device Power

12vDC output for powering PIR's,
T4000 or other security devices

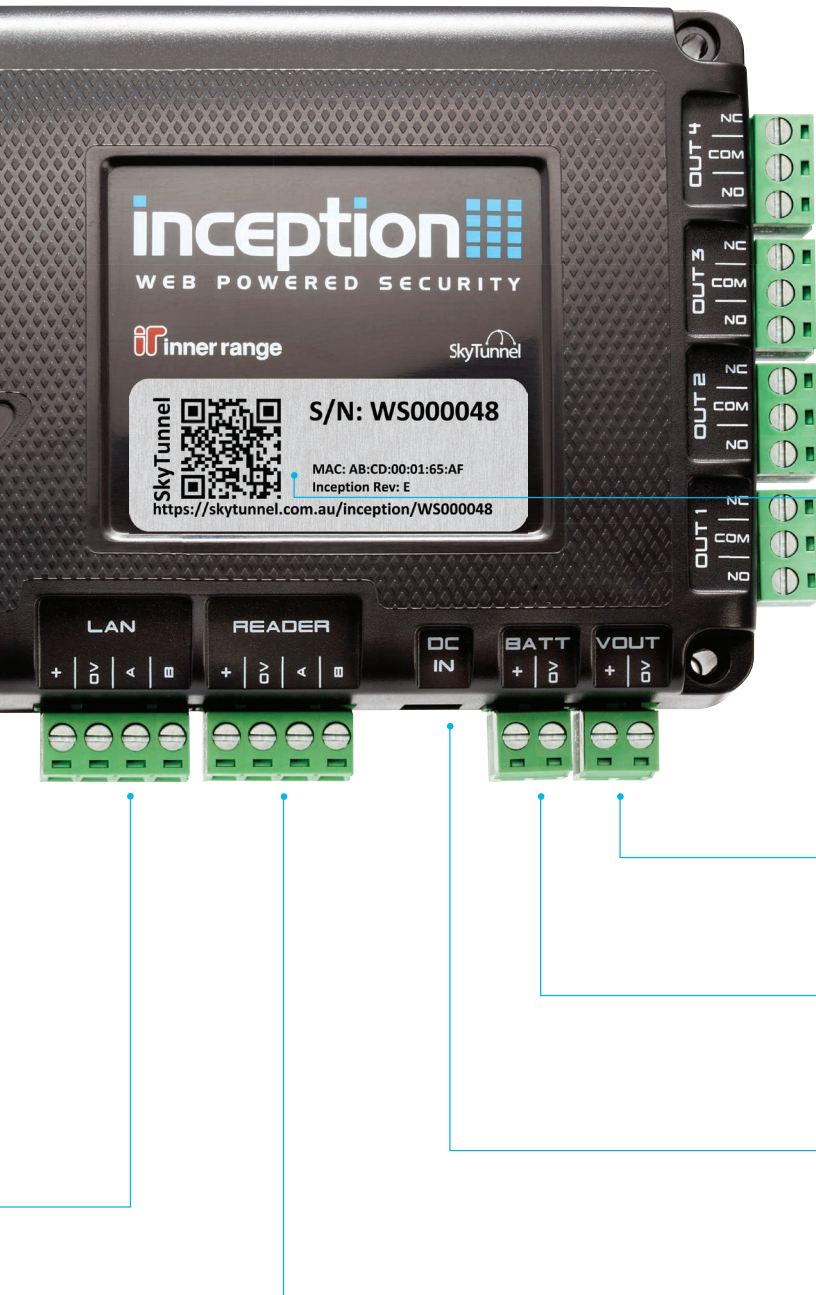


RS-485 LAN Expansion Port

Add LAN expansion modules to Inception including keypads, input/output
expanders, access control, modules and wireless fobs and detectors

Inception LAN Module Compatibility Chart

Module / Device Description	Code
8 Input LAN Expander (UniBus Host)	21120
UniBus 8 Input Expander	21200
UniBus 8 Relay Expander	21211
Standard LAN Access Module (SLAM)	21140
Paradox RF Expander	20338
EliteX Terminal / Elite Terminal (Grey)	20309 / 20307
SIFER Smart Card Reader (Standard / Multi Format)	21030 / 21031
T4000 Communicator / T4000 Communicator Spark Network On	35409 / 35409SPARK
LAN Over Ethernet Device (CLOE)	20500
LAN Isolater	20355
Fibre Modem (Multi Mode / Single Mode)	20502 / 20503
Wi-Fi Adapter	21011



4 Universal Relay Outputs

Outputs are truly universal. Control door locks, connect alarm sounders or switch automation controls and external devices



SkyTunnel

SkyTunnel Web Interface

Scan the QR code or browse to the web address to access your Inception's web interface from any Internet connected device via the SkyTunnel service



Device Power

12vDC output for powering PIR's, T4000 or other security devices



Backup Battery Connection

Connect a 12V SLA battery for back-up power. Can also be used to power Inception from a separate external battery-backed 12-14vDC power supply



Power Input

18V-24vDC 2.5A to suit Inception's inline power supply



SIFER Reader RS-485 Port

Connect up to 8 SIFER readers for in/out access control of up to 4 doors



System Capacities

	On-Board Inception Controller	With LAN Expansion
Doors	4*	32
SIFER Readers	8	64
Wiegand Readers	0	32/64**
Areas	32	32
Inputs	8	512
Outputs	4*	512
Users	2,000	2,000
Events	50,000	50,000

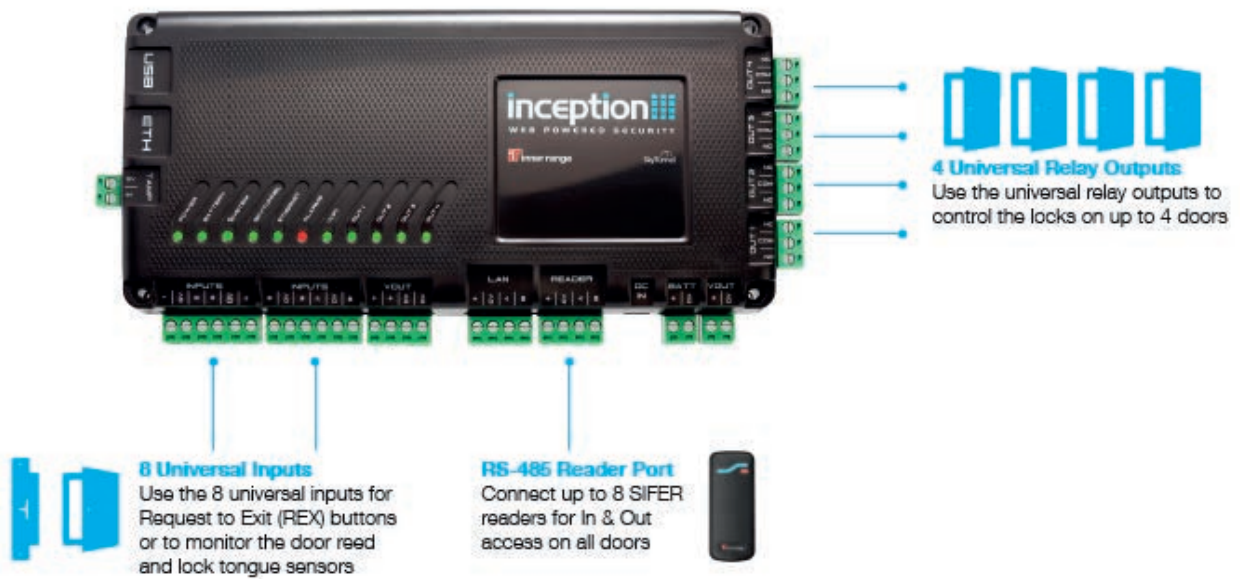
*The Inception controller has 4 relay outputs in total.

These can be used as lock relays for doors or general purpose dry contact outputs.

**64 Wiegand readers requires 32x Standard LAN Access Modules (SLAM). i.e one per door

Deployment Examples

Four Door Access Control System



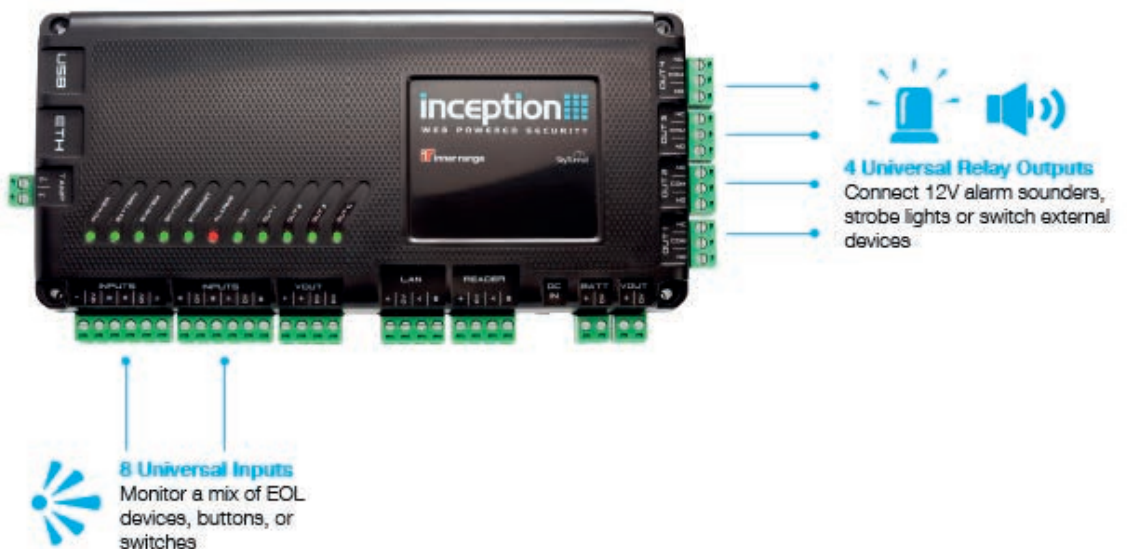
Eight Zone Security System



Multipath-IP T4000
Connect the T4000 to Inception's USB port for 3G wireless IP alarm transmission



IP-Alarms over Ethernet
Use Inception's Ethernet port to send IP alarms to Multipath-IP equipped monitoring stations





Integrated Access Control and Security System

Example showing 2 access controlled doors with 4 inputs used for general intruder detection



Multipath-IP T4000

Connect the T4000 to Inception's USB port for 3G wireless IP alarm transmission



IP-Alarms over Ethernet

Use Inception's Ethernet port to send IP alarms to Multipath-IP equipped monitoring stations



4 Universal Relay Outputs

Use 2 of the universal relay outputs to control the locks on 2 doors and connect 12V alarm sounders, strobe lights or switch external devices with the remaining outputs



8 Universal Inputs

Use 4 of the universal inputs for REX buttons or to monitor the door reed and lock tongue sensors, while using the remaining 4 to monitor any mix of EOL devices, buttons, or switches

RS-485 Reader Port

Connect up to 8 SIFER readers for In & Out access on all four doors



Multipath-IP T4000

Connect the T4000 to Inception's USB port for 3G wireless IP alarm transmission



IP-Alarms over Ethernet

Use Inception's Ethernet port to send IP alarms to Multipath-IP equipped monitoring stations



8 Universal Inputs

Monitor a mix of EOL devices, buttons, switches or doors

Inception with LAN Expansion Modules



4 Universal Relay Outputs

Outputs are truly universal. Control door locks, connect alarm sounders or switch automation controls and external devices

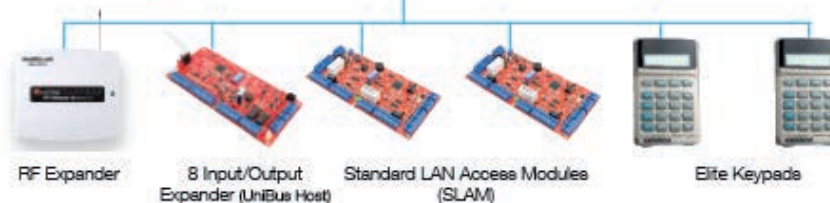


RS-485 Reader Port

Connect up to 8 SIFER readers for In & Out access for door locks connected directly to the controller

RS-485 LAN Expansion

Add RS-485 LAN modules & Keypads to Inception to increase the system capacity up to 32 doors, 64 readers, 512 inputs & 512 outputs



RF Expander

8 Input/Output Expander (UniBus Host)

Standard LAN Access Modules (SLAM)

Elite Keypads

Inception Peripherals

SIFER Smart Card Reader

The SIFER card reader is a Smart card reader designed and manufactured by Inner Range. It is a multi-drop RS-485 connected 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. SIFER allows the colour scheme of the indicator LEDs to be customised according to the sites requirements. The internal beeper is used to provide audible feedback to indicate valid access, access denied and other event or warning sounds.

Up to 8 SIFER readers may be connected to the RS-485 reader port on the Inception controller and up to 4 may be connected to the Standard LAN Access Module (SLAM). SIFER's bus interface allows all of the readers to be connected via just one cable. With a single connection to the controller, time and money is saved through the reduced need for cabling. SIFER readers are IP67 rated and can be configured with site specific encryption keys. The SIFER reader is available in two versions: The standard SIFER which will only read SIFER cards, and the Multi-Format SIFER which can read SIFER cards and also the Card Serial Number (CSN) of other smart cards such as MiFare & iClass.

21030 SIFER Smart Card Reader

21031 SIFER Smart Card Multi-Format Reader

XXXXX SIFER Keypad/Smart Card Reader

XXXXX SIFER Keypad/Smart Card Multi-Format Reader

SIFER Cards & Fobs

1. **SIFER-P:** Pre-programmed 'stock' cards. The most cost-effective card option without customisation options. 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 via the SIFER Programming Station (Code 21036)
3. **SIFER-C:** Custom batch orders configured by our 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 our factory.

ISO Cards **21040** SIFER-P DESFire EV1 4K ISO - Pre-programmed - Printed

21041 SIFER-U DESFire EV1 4K ISO - User Programmable - Printed

21042 SIFER-C DESFire EV1 4K ISO - Custom Programmed - Printed

FOB's **21043** SIFER-P DESFire EV1 4K FOB - Pre-programmed - Printed

SIFER Tools **21036** SIFER Card Enrolment Station for SIFER-U cards





OSDP to Wiegand / Wiegand to OSDP Converter

The OSDP to Wiegand / Wiegand to OSDP Converter is a small inline device that can operate in two main modes that can open up many new options when determining and designing a site's hardware requirements.

Option 1:

Connect Wiegand readers to OSDP ports

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

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

In practice, this allows up to 8 Wiegand readers to be connected directly to an Inception Controller, allowing read-in and read-out abilities on up to 4 doors without extra hardware, which is perfect if upgrading an existing site with access control to Inception. In addition, two extra Wiegand readers can be connected to SLAMs, again allowing read-in and read-out abilities on both doors of a SLAM.

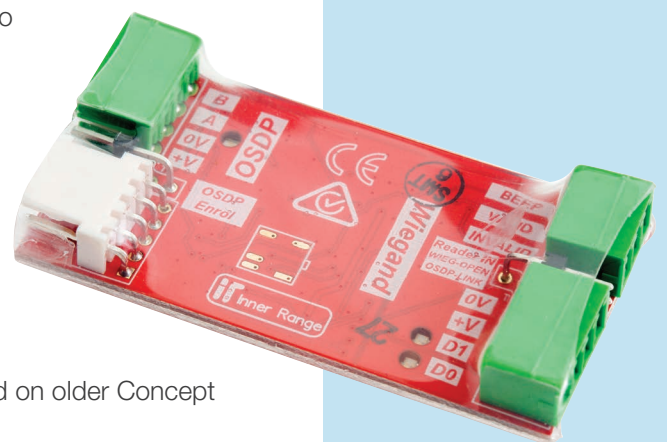
The advanced control that Inception offers for a Wiegand reader's beeper and valid/invalid LEDs are also available when connected to the OSDP to Wiegand / Wiegand to OSDP converter. This allows numerous area events like arm success or failure, entry delay, exit delay, alarm and area arm warning, or door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

Option 2:

Connect OSDP readers to Wiegand reader port.

Via the Converter, OSDP readers such as Inner Range SIFER readers or other products can now be connected to existing Wiegand reader ports. This allows SIFERs, for example, to be used on older Concept hardware or other products in preparation for a site upgrade.

When used in conjunction with an Inception system, it allows non-SIFER OSDP readers to be connected to SLAMs, allowing sites with existing OSDP readers to be changed to an Inception site.



Inception Peripherals

Multipath-IP T4000 Security Communicator

The Inception controller can natively send alarms over IP to Multipath-IP equipped monitoring stations via the local Internet connection and Inner Range's SkyTunnel service.

However, for high-security applications where multiple network paths are desired or client sites where an existing Internet connection is not available, the T4000 may be connected to the Inception controller using a USB connection. The T4000 provides the Inception controller with any combination of Ethernet plus Single or Dual SIM 3G network connectivity for wired and wireless alarm transmission, ensuring that alarms are delivered every time.

Connecting the T4000 to the Inception's built-in USB port is child's play using the specialised USB cable. Combined they are truly 'plug and play' devices taking only minutes to connect and configure. A T4000 to Inception USB Interface cable part is also required.

35409 T4000 Multipath 3G/IP Communicator

T4000 – Inception Interface Cable

The T4000 Inception interface cable is required to connect a T4000 to Inception's USB port.

22013 T4000 – Inception Interface Cable

Inception Wi-Fi Adapter

Use the Inception Wi-Fi Adapter to upgrade your Inception with Wi-Fi abilities. The Wi-Fi adapter supports two modes of operation and includes a 2dBi Antenna and external magnetic antenna base.

21011 Inception Wi-Fi Adapter





USB Hub for Inception

Use the USB hub where more than one USB device is to be connected to the Inception controller. For example, 1 x Wi-Fi adapter and 1 x T4000.

The USB hub has 4 ports and a very small footprint and can be powered from 12VDC available from the controller. This also allows the hub to be included in the backup power supply from the controller.

22012 Inception USB Hub



Wireless RF Expander Module

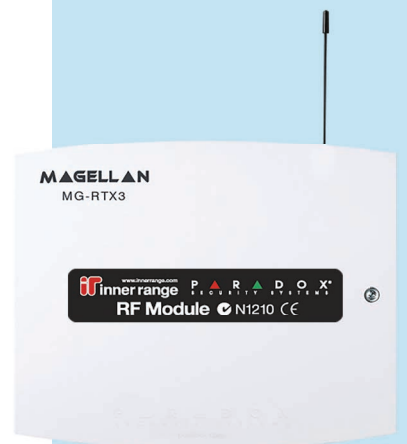
The Inner Range/Paradox RF module is a cost-effective wireless RF solution that connects to Inception's RS-485 LAN and allows Paradox Magellan wireless PIR's, reed switches, smoke detectors, remote control fobs and emergency pendants to function with the Inception system.

Paradox remote control fobs can be used to arm or disarm the Inception system with ease and can provide bi-directional audible and visual feedback for arming. Custom actions can be assigned to the fob buttons to provide convenient wireless control at the touch of a button. In addition to this, the REM 2 has an information button which can be used to indicate the current status of the security area. Additionally, each RF module will provide 32 wireless detection inputs. Low battery supervision and reporting is provided for all wireless input devices.

Inception supports the following Paradox wireless devices:

- Remote Controls, Fobs & Emergency Pendants (excluding REM 3)
- Motion Detectors
- Wireless Door Contacts (Reed Switches)
- Smoke and Glass Break Detectors

20338 Inner Range Wireless Receiver - Paradox - LAN Module



Inception LAN Expansion Modules

Standard LAN Access Module

The Standard LAN Access Module (SLAM) is used to control and monitor up to 2 doors on Inception's RS-485 LAN. Connect up to 4 Inner Range SIFER readers to accommodate entry and exit readers on both doors. Alternatively, 2 Wiegand readers may be connected to allow control of a single door with entry and exit readers or two doors with a single reader each. Programming options allow for each reader to be configured independently and security area control to be integrated with access control where required.

The SLAM features 4 dedicated inputs and outputs for each door including lock and DOTL (Door Open Too Long) relays. The outputs and inputs are flexible. In particular, outputs can be given DOTL, valid, invalid, beeper, generic output and follow door state behaviour. Similarly, inputs can be given reed, tongue, REX, breakglass or generic detector/switch behaviour. The door contacts and/or tongue sense inputs are utilised to provide "door forced" and "door open too long" alarms.

Cache functionality is also provided via the on-board database, which provides offline access for up to 2,000 user cards if communications to the Inception controller are lost. The power supply requirements are 11 to 14vDC and a range of Integrati plug-on external 2Amp, SMART 3Amp or SMART 8Amp switch mode power supplies are available. The SMART power supplies are fully monitored via the SLAM module.

21140 Simple LAN Access Module (SLAM) - PCB Only

UniBus 8 Input Expander

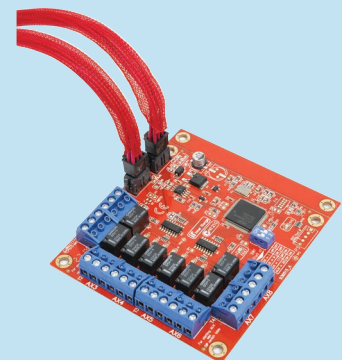
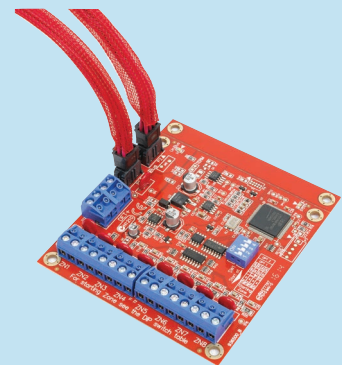
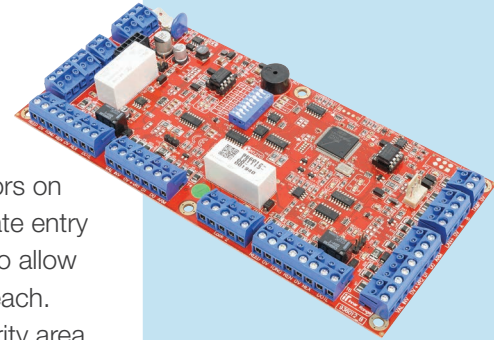
The UniBus 8 Input Expander connects directly to an 8 Input LAN Expander (host module) via the UniBus Port. It provides an additional 8 inputs along with extra detector power supply connections (DET+) to simplify device wiring. The UniBus 8 Relay Expander is designed for installation within the same tamper protected enclosure as its host module. The UniBus device is connected directly to the host module or another UniBus device via the UniBus patch cable supplied. Up to 3 UniBus 8 Input expanders can be connected to one 8 Input LAN expander.

21200 UniBus 8 Zone Expander - PCB Only

UniBus 8 Relay Expander

The UniBus 8 Relay Expander connects directly to an 8 Input LAN Expander (host module) via the UniBus Port. It provides 8 independent, high-current normally open or normally closed relay outputs, offering a general purpose interface for switching devices such as strobes, buzzers, building automation and process control. The UniBus 8 Relay Expander is designed for installation within the same tamper protected enclosure as its host module and can be connected directly to the host module or another UniBus device via the UniBus patch cable supplied. Up to four UniBus 8 relay expanders can be connected to one 8 Input LAN Expander.

21211 UniBus 8 Relay Expander (PCB, Patch Cable & Accessories)





Lift Integration

Low-level lift integration to Inception involves wiring of outputs in the Inception system to lift buttons in a lift car, allowing the individual buttons to be enabled or disabled by the Inception system. Then, a user is able to present their card at a reader located in the lift car and based on their permissions, certain floor selection buttons can be enabled. In addition, the lift buttons can also be wired into Inputs in the Inception system, allowing Inception to know which button a user pressed.

Buttons in lift cars can be configured to enable automatically on a schedule, allowing free access to floors at certain times of the day. This behaviour can also be manually overridden by the end user, letting them set floors to free access, secured or locked out if they have the correct permissions. Security area integration is included, where lift floors can be associated with areas, preventing free access to that floor if the area is armed. In addition, if button feedback is available, the area can be automatically disarmed when the user selects it. Or if they do not have permission to disarm the area, they can be denied access until an authorized user accesses the area first, preventing them from walking into an armed area that they cannot control. The lift integration can also be used to provide other security related functions, such as locker control, car garages or storage units. This could allow a single reader to unlock one or more lockers or a specific roller door based on which user presented their card.

The UniBus Lift Button Interface

UniBus 16-Floor Lift Interface device provides an efficient integration between the Inception System and a lift system. This facilitates managed and secure floor access for users within multi-storey buildings and apartment blocks. The UniBus Lift Interface device utilises a low-level button feedback interface between Inception and the lift system. It incorporates input conditioning and switching to provide the isolation required between the two systems. Using a UniBus cable, the device connects directly to an 8 Input LAN expander, (UniBus Host) and up to 6 UniBus 16-Floor Lift Interface devices can be connected to a single host module to service up to 96 lift buttons with button feedback.

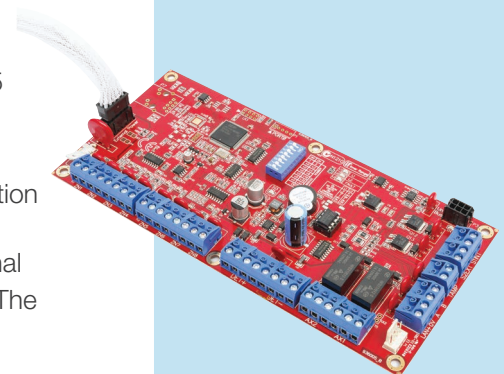
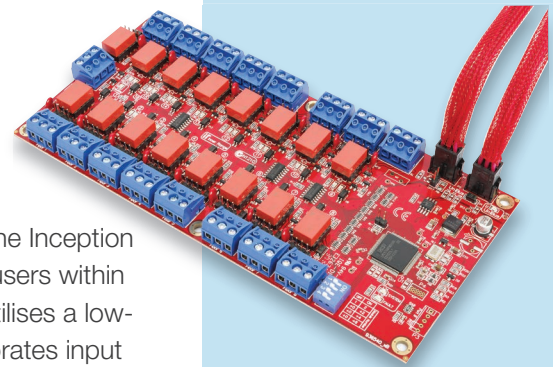
XXXXXX UniBus 16 Floor Lift Interface Device

8 Input LAN Expander

The 8 Input LAN Expander module can be connected directly to Inception's RS-485 LAN to provide an additional 8 zone inputs, 2 auxiliary outputs and 2 siren drivers. Each 8 Input LAN Expander can be expanded, up to 32 inputs or 32 outputs using plug-on UniBus expansion devices.* This flexible expansion design allows the Inception system to be expanded up to a total of 512 inputs and outputs. The 8 Input LAN Expander's power supply requirement is 11 to 14vDC and a range of plug-on external 2Amp, SMART 3Amp or SMART 8Amp switch mode power supplies are available. The SMART power supplies are fully monitored via the 8 Input LAN Expander module.

21120 8 Zone LAN Expander - PCB Only

**Limited to 32 inputs and 26 outputs or 24 inputs and 32 outputs at the same time.*



Inception Keypads & Cabinets

Elite LCD Keypad

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

Users PIN numbers can also be changed directly from the keypad.

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

EliteX can also be used by the installer to access a limited range of Inception's configuration options. The keypad's 8 indicator LEDs can also display a real-time status of the security system.

20309 EliteX LCD Terminal Keypad (Due mid 2017)

20307 Original Elite LCD Terminal Keypad (Ivory)

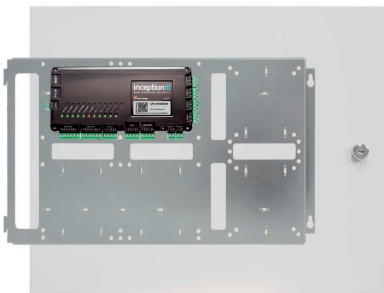
20308 Original Elite LCD Terminal Keypad (White)



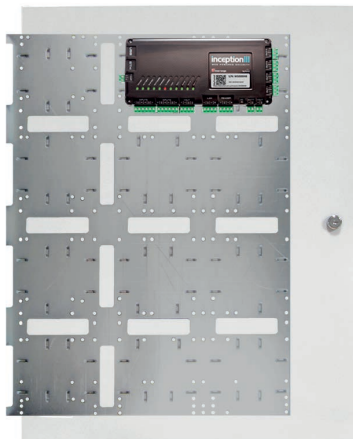
eliteX
KEYPAD

Cabinet Options

The Inception metal cabinets are sturdy universal cabinets designed to house a wide range of Inner Range products.



22001 Inner Range Inception Controller in Standard Cabinet with Chassis



22002 Inner Range Inception Controller in Large Cabinet with Chassis



22003 Inner Range Inception Controller in Mega Cabinet with Chassis



Inception Controller

22000

SPECIFICATIONS

Case Material:	ABS plastic
Dimensions:	205mm x 94mm x 36mm
Shipping Weight (gross):	1.2kg
Installation Environment:	0°C - 50°C @ 15% - 90% relative humidity (non-condensing)
Power Source:	18V to 24VDC 2.5A (e.g. the supplied 24V 2.5A PSU) - To "DC IN" (recommended): <i>Note: A 12V, SLA Battery of 7AH to 18AH capacity must be connected to 'BATT' input.</i> - To "BATT" (alternate method): 12.8V to 14VDC 2.8A (e.g. a separate external battery-backed power supply) <i>Note: "DC IN" should not be connected when powered to via the BATT connection.</i>
Battery (supplied separately):	12 Volt Sealed Lead-Acid (gel) type - 7 to 18 Amp-Hour
Idle Current Consumption:	<i>Note: Does not include battery charging or current required by any peripheral devices.</i> - DC IN: (24V DC) 60mA (85mA with Ethernet connected) - BATT: (DC IN = 0V) 110mA (150mA with Ethernet connected)
Additional Current Required For:	- Built-in Relays: (out 1 - out 4) 25mA per relay (33mA when Controller powered from "BATT" input) - Inception Wi-Fi Adapter: 25mA (40mA when Controller powered from "BATT" input) - Inception 4-Port USB Hub: 20mA (40mA when Controller powered from "BATT" input) Not including current required by any device connected to a USB Port
Typical Battery Backup Time:	With Ethernet or Wi-Fi + 1 LCD Terminal + up to 200mA for other devices. - 7 AH Battery: 16 Hours - 18AH Battery: 40 Hours - 18AH Battery: 24 Hours Configuration as above but up to 500mA for other devices
Power Supply Outputs:	<i>See notes 1 & 2 below</i> - V OUT: 13.4vDC +/- 150mV 1A max - LAN +: 13.4vDC +/- 150mV 1A max - READER +: 13.4vDC +/- 150mV 1A max - USB 2.0: 5vDC 500mA max - Maximum Combined Current - All Outputs: 2.5 A
Battery Charger Output Voltage:	13.75vDC / Output Current: Up to 500mA
Typical Battery Backup Time (7Ah battery):	16 hours (with controller connected to Ethernet or Wi-Fi with 1 x Elite keypad and up to 200mA for other devices such as PIR's or readers, etc)
AC Fail Detect (on "DC IN"):	16.5vDC / Low Battery Detect (on "BATT" input): 11.0vDC
Output Fuses:	Individual PTC protection - self-resetting
Battery Input Fuse:	7A onboard fuse - non-replaceable
Battery Deep Discharge Protection	Activated: 10.4V / Restored: 12.5V
Zone Inputs:	8
Relay Outputs:	4 ("OUT1-4")
Relay Contact Rating:	5A 30vDC or AC (<i>see note 2 below</i>)
Indicator LED's:	11
Alarm Reporting Formats:	ContactID or OR-fast (via T4000 or SkyTunnel)

NOTES:

- Please refer to the respective product data sheets for details of power supply current requirements of the accessories and expansion modules that may be powered from the Inception controller power supply.
- A separate external battery-backed power supply may be required for devices connected to the Inception controller if the current required is in excess of the maximum current allowed for that output, or causes the maximum combined output current specification to be exceeded.

ATLAS GENTECH

DATA COMMUNICATIONS SECURITY



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For more information, visit www.atlasgentech.co.nz/brands/innerrange.html

There you will find installation guides and videos to help you get the most out of your Inception systems.