

The Inception Controller is the heart of the Inception system. The controller is a powerful security system that brings together Intruder Detection, Access Control and Automation into one easy to use web based hardware solution.

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 WiFi 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.

As a standalone controller, Inception is truly flexible straight out of the box. For example, Inception's 8 universal inputs can be used to connect intruder detection devices such as PIRs and window sensors, or they can be used to connect access control sensors such as door reeds and door lock tongue sense devices.

Inception also features 4 universal outputs which can be configured to control door locks, switch strobe lights and siren screamers or control other devices for automation purposes.

Inception also features an RS-485 OSDP reader bus, meaning that up to 8 Inner Range SIFER smart card readers, or 8 Wiegand readers via OSDP <-> Wiegand converters, can be connected directly to the controller to provide card access for both in and out directions for all doors. All of this is possible without the need to add any additional hardware expansion modules to the system, however Inception's RS-485 LAN expansion port does allow for further expansion where required.

Hardware Features

- Built-in web Interface
- 8 x Universal Zone Inputs - expandable up to 512
- 4 x Auxiliary Relay Outputs - expandable up to 512
- Manage up to 4 Doors with the Controller – expandable up to 128
- Manage up to 32 Lift Cars and 96 Lift Buttons
- Connect up to 8 SIFER readers to the Controller - expandable up to 256
- Connect up to 256 Wiegand readers via SLAM's on the RS-485 LAN
- RJ45 - 10/100 Ethernet Port
- RS-485 Sub-LAN Port
- RS-485 Reader-LAN Port
- USB Port for connection of WiFi adapter & T4000 Alarm communicator

System Capacities

	On-board Inception Controller	With LAN Expansion
Doors	4*	128
SIFER Readers	8	256
Wiegand Readers	8**	128/256***
Areas	96	96
Inputs	8	512
Outputs	4*	512
Lift Cars	32	32
Users	10,000	10,000

*The Inception controller has 4 relay outputs in total. These can be used as lock relays for doors or general purpose dry contact outputs

** Via 8 OSDP <-> Wiegand converters

*** 256 Wiegand readers requires a combination of OSDP <-> Wiegand converters and 127 Standard LAN Access Modules.



Expansion Module Compatibility

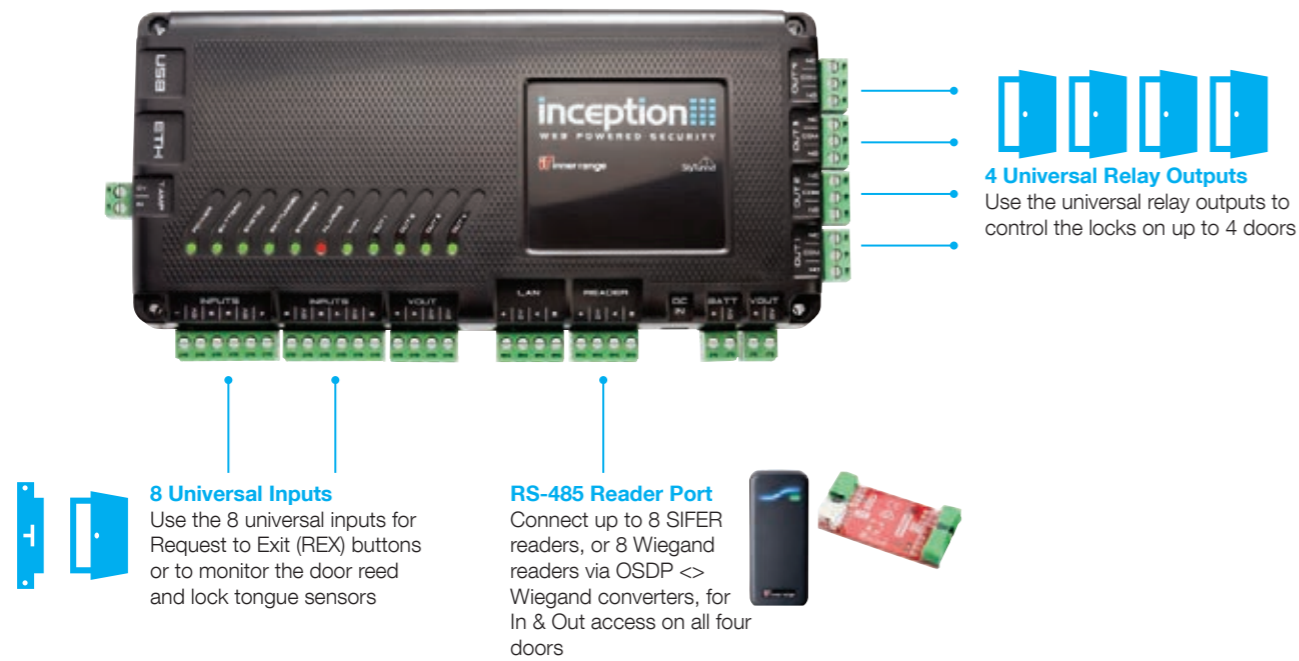
Module / Device Description	Part Number	Compatible
8 Input LAN Expander (UniBus Host)	21120	✓
UniBus 8 Input Expander	21200	✓
UniBus 8 Relay Expander	21211	✓
UniBus Lift Interface	21215	✓
Standard LAN Access Module (SLAM)	21140	✓
Paradox RF Expander	20338	✓
Inovonics RF Expander	20339	✓
EliteX Keypad	20307X	✓
SIFER Smart Card Reader	21030 21031	✓
SIFER Keypad / Smart Card Reader	21030K / 21031K	✓
OSDP<->Wiegand Converter	21039	✓
Multipath-IP T4000 Security Communicator	35407 35409	✓
LAN Over Ethernet Device (CLOE)	20500	✓
LAN Isolator	20355	✓
Fibre Modem (Single or Multi Mode)	20502 / 20503	✓

Ordering Options



Inception Controller (Australia) 996300AU
Inception Controller (Europe) INCP-996300EU

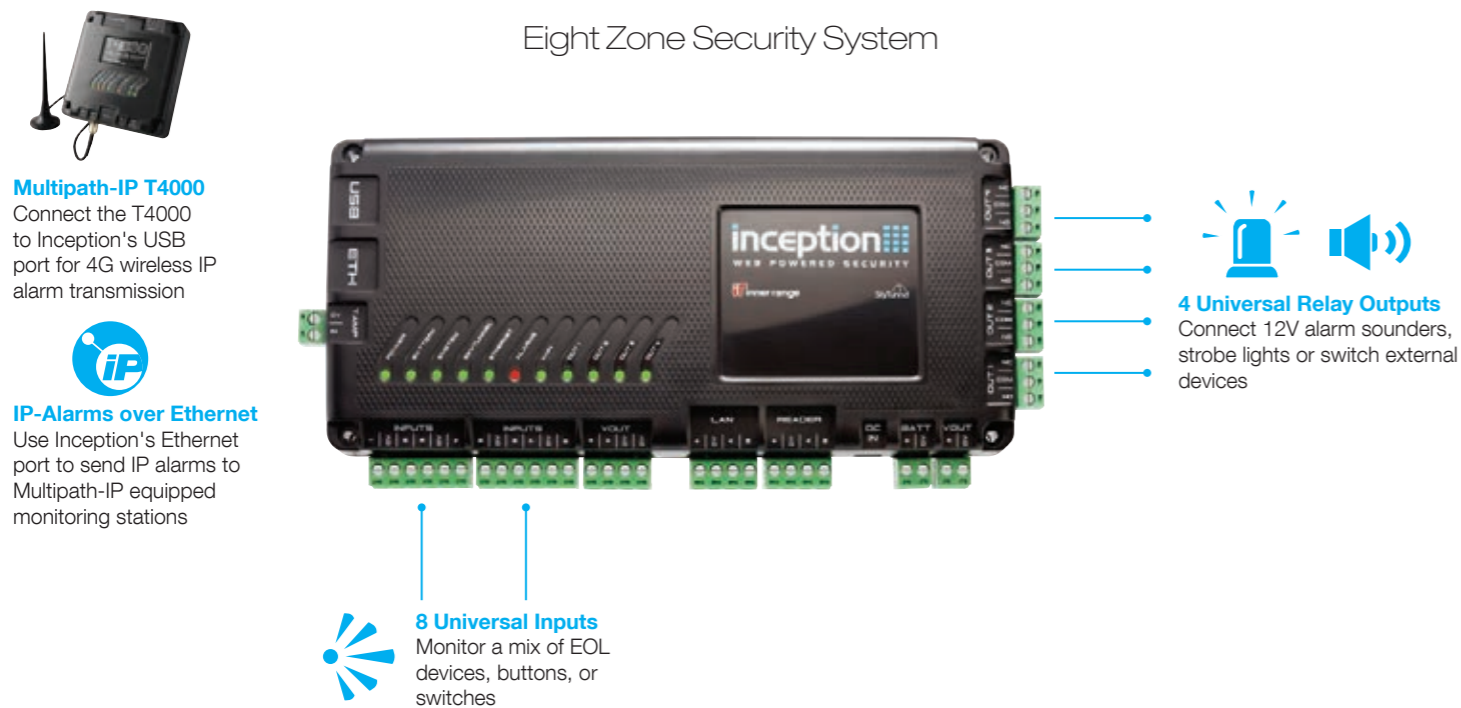
Four Door Access Control System



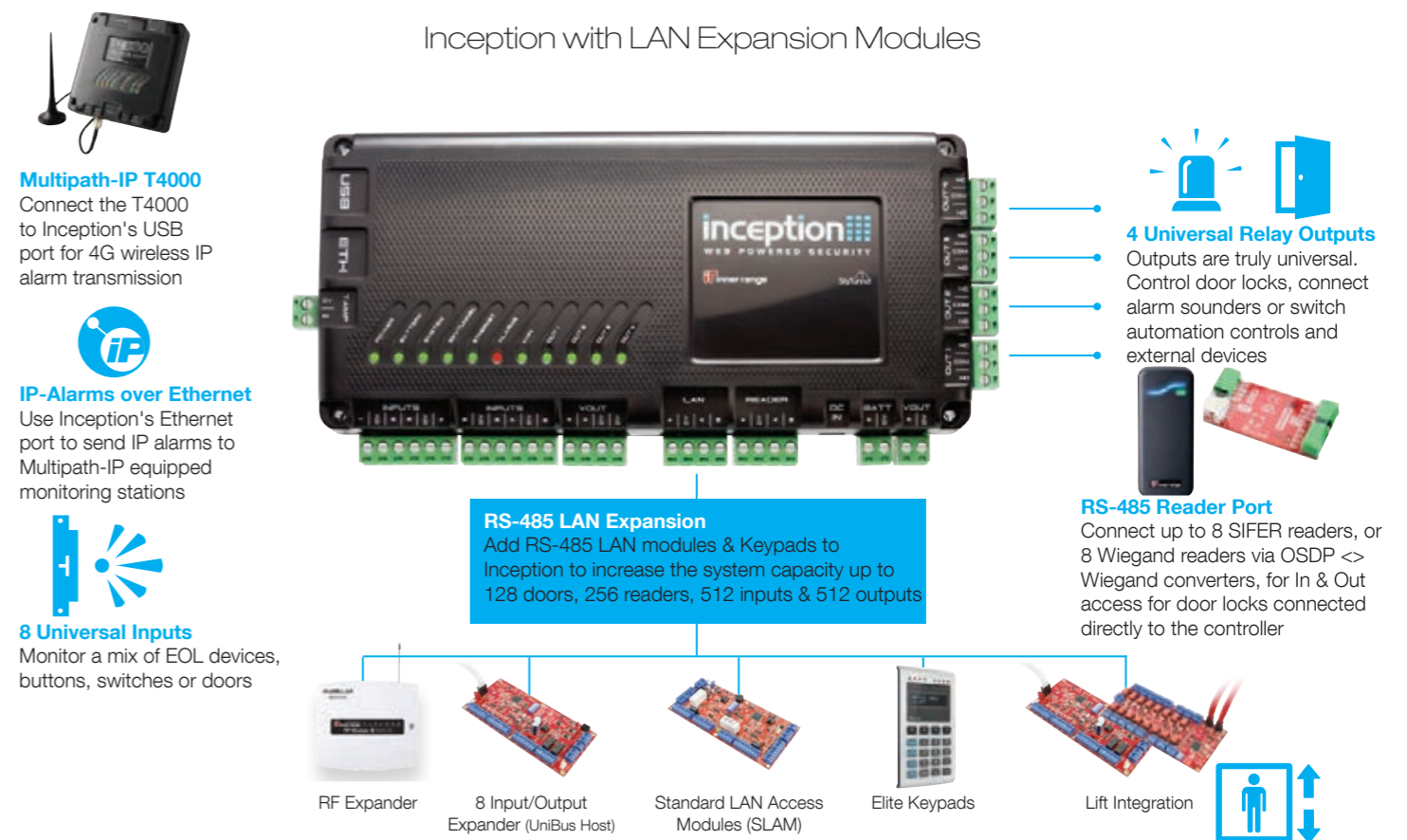
Integrated Access Control and Security System
Example showing 2 access controlled doors with 4 inputs used for general intruder detection



Eight Zone Security System



Inception with LAN Expansion Modules



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-14VDC 2.8A (e.g. a separate external battery-backed power supply) <i>Note: "DC IN" should not be connected when powered 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 WiFi 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
Power Supply Outputs:	<i>See notes 1 & 2 below</i>
- V OUT (4-PIN):	13.4VDC +/-150mV 750mA max
- V OUT (2-PIN):	13.4VDC +/-150mV 1.5A max
- LAN +:	13.4VDC +/-150mV 350mA 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:	With Ethernet or Wi-Fi + 1 LCD Terminal + up to 200mA for other devices.
- 7AH Battery:	16 Hours
- 18AH Battery:	40 Hours
- 18AH Battery:	24 Hours Configuration as above but up to 500mA for other devices.
AC Fail Detect (on "DC IN"):	16 Hours
Output Fuses:	40 Hours
Battery Input Fuse:	24 Hours Configuration as above but up to 500mA for other devices.
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 IR-fast (via T4000 or SkyTunnel)

NOTES:

1. 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.
2. 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.



For more information, visit www.innerrange.com/inception.
There you will find installation guides and videos to help you get the most out of your Inception system.