



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 Security Communicator or USB to Serial adapter for automation

System Capacities

| | On-board Inception Controller | With LAN Expansion |
|------------------------|-------------------------------|--------------------|
| Doors | 4* | 128 |
| SIFER Readers | 8 | 256 |
| Wiegand Readers | 8** | 128/256*** |
| Areas | 32 | 32 |
| 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

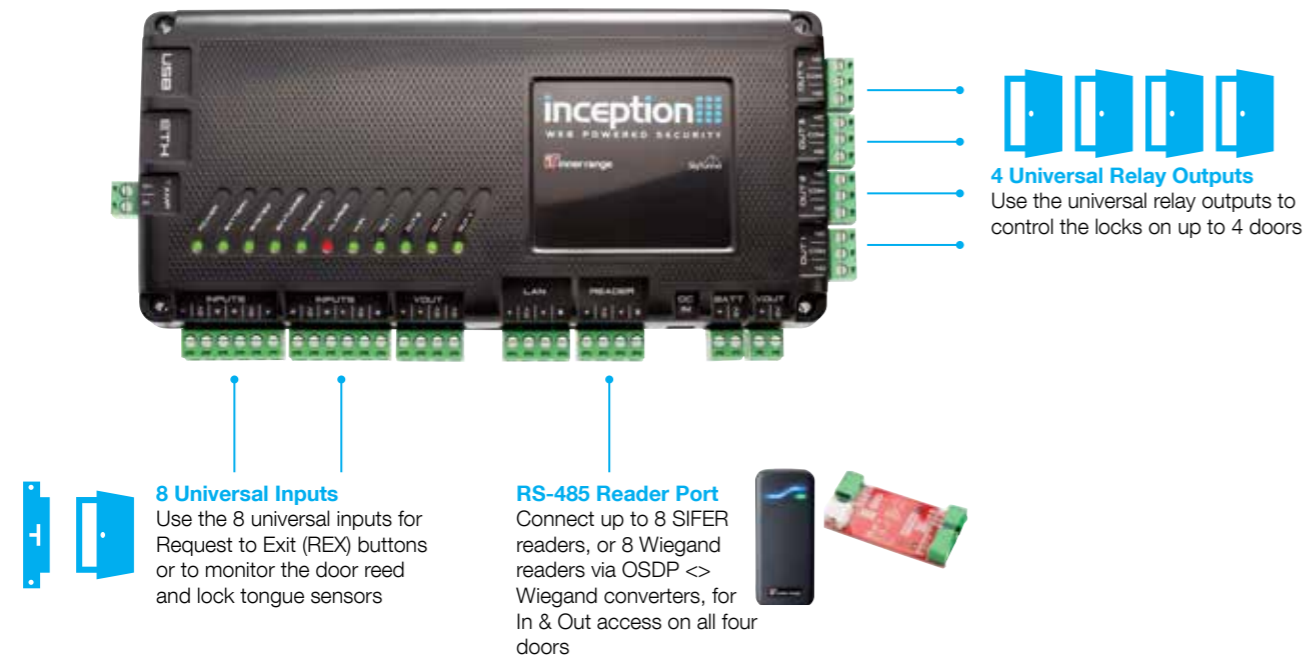
| Module / Device Description | Part Number | Compatible |
|---|--------------------------------|------------|
| 8 Input LAN Expander (UniBus Host) | INTG-996005PCB&K | ✓ |
| UniBus 8 Input Expander | INTG-996500PCB&K | ✓ |
| UniBus 8 Relay Expander | INTG-996515PCB&K | ✓ |
| UniBus Lift Interface | INTG-996540PCB&K | ✓ |
| Standard LAN Access Module (SLAM) | INTG-996012PCB&K | ✓ |
| Paradox RF Expander | 995025 | ✓ |
| Inovonics RF Expander | INTG-996008 | ✓ |
| EliteX Keypad | 995400 | ✓ |
| Original Elite Keypad | 995400 | ✓ |
| SIFER Smart Card Reader | INTG-994720 INTG-994720MF | ✓ |
| SIFER Keypad / Smart Card Reader | INTG-994725 / INTG-994725MF | ✓ |
| OSDP<->Wiegand Converter | INTG-994200 | ✓ |
| Multipath-IP T4000 Security Communicator | 998530LT / 998530 | ✓ |
| LAN Over Ethernet Device (CLOE) | 995093 | ✓ |
| LAN Isolator | 995080 | ✓ |
| Fibre Modem (Single or Multi Mode) | 995081 / 995087 | ✓ |

Ordering Options



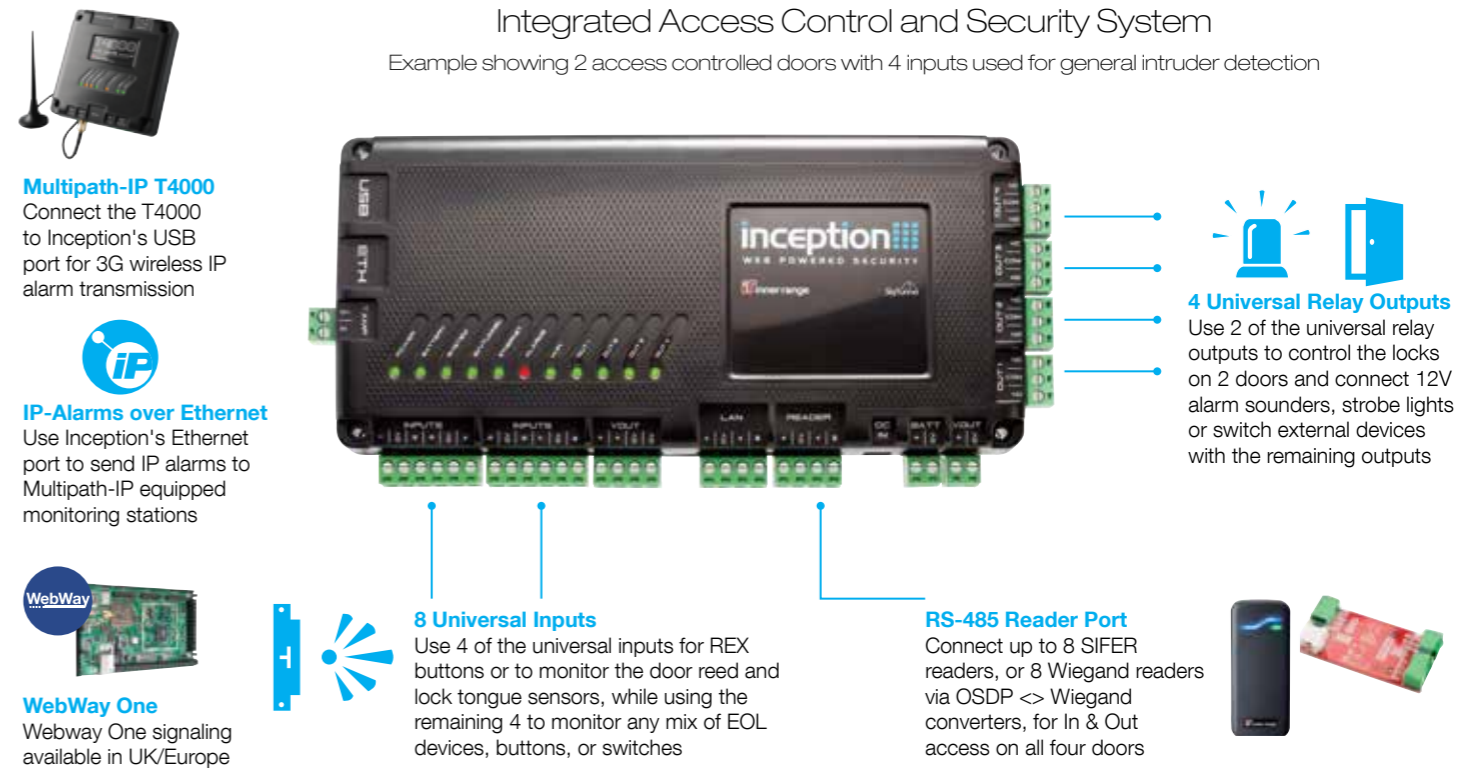
Inception Controller (Europe) INCP-996300EU

Four Door Access Control System

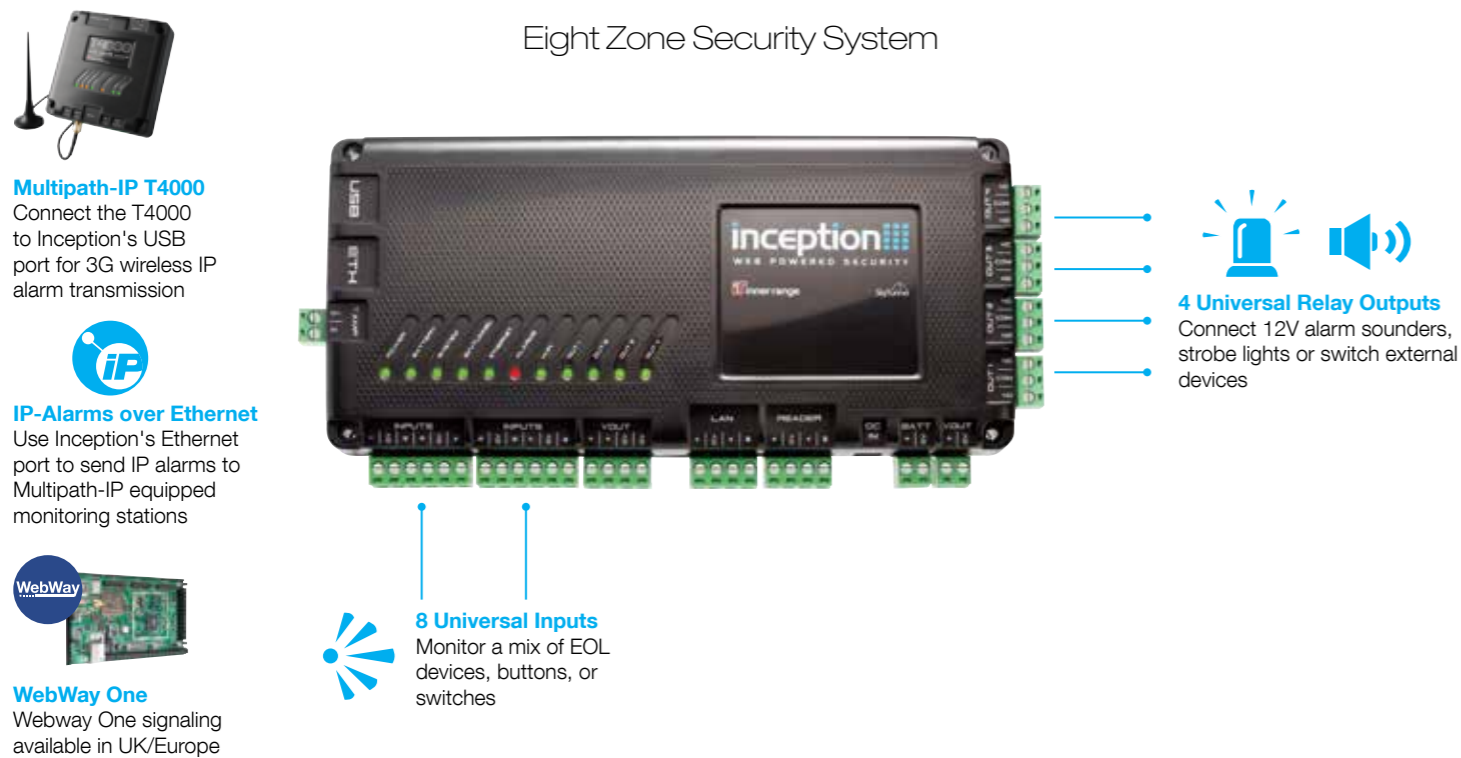


Integrated Access Control and Security System

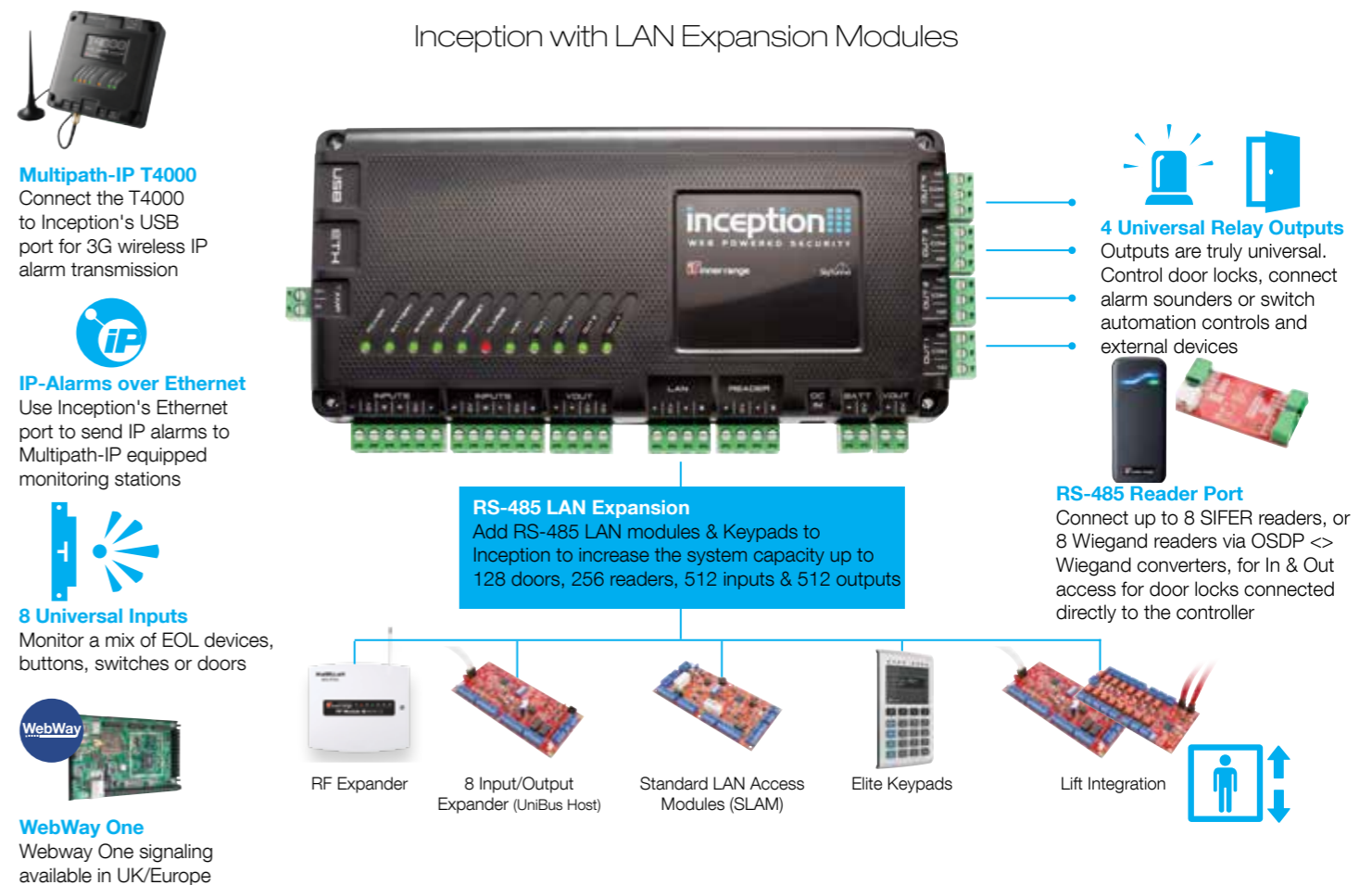
Example showing 2 access controlled doors with 4 inputs used for general intruder detection



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: - To "DC IN" (recommended): - To "BATT" (alternate method): | 18V to 24VDC 2.5A (e.g. the supplied 24V 2.5A PSU) <i>Note: A 12V, SLA Battery of 7AH to 18AH capacity must be connected to 'BATT' input.</i> 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: - DC IN: (24V DC) - BATT: (DC IN = 0V) | <i>Note: Does not include battery charging or current required by any peripheral devices.</i> 60mA (85mA with Ethernet connected) 110mA (150mA with Ethernet connected) |
| Additional Current Required For: - Built-in Relays: (out 1 ~ out 4) - Inception WiFi Adapter: - Inception 4-Port USB Hub: | 25mA per relay (33mA when Controller powered from "BATT" input) 25mA (40mA when Controller powered from "BATT" input) 20mA (40mA when Controller powered from "BATT" input) Not including current required by any device connected to a USB Port |
| Power Supply Outputs: - V OUT (4-PIN): - V OUT (2-PIN): - LAN +: - READER +: - USB 2.0: - Maximum Combined Current - All Outputs | <i>See notes 1 & 2 below</i> 13.4VDC +/-150mV 750mA max 13.4VDC +/-150mV 1.5A max 13.4VDC +/-150mV 350mA max 13.4VDC +/-150mV 1A max 5VDC 500mA max 2.5 A |
| Battery Charger Output Voltage: | 13.75VDC / Output Current: Up to 500mA |
| Typical Battery Backup Time: - 7AH Battery: - 18AH Battery: - 18AH Battery: | With Ethernet or Wi-Fi + 1 LCD Terminal + up to 200mA for other devices. 16 Hours 40 Hours 24 Hours Configuration as above but up to 500mA for other devices. |
| 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 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.