inception
WEB POWERED SECURITY

DATA SHEET
Inception Controller

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 allows 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	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)	996005PCB&K	✔
UniBus 8 Input Expander	996500PCB&K	✔
UniBus 8 Relay Expander	996515PCB&K	✔
UniBus Lift Interface	996540PCB&K	✔
Standard LAN Access Module (SLAM)	996012PCB&K	✔
Paradox RF Expander	995025	✔
Inovonics RF Expander	996008	✔
EliteX Keypad	995400	✔
Original Elite Keypad	995000U	✔
SIFER Smart Card Reader	994720 / 994720MF	✔
SIFER Keypad / Smart Card Reader	994725 / 994725MF	✔
OSDP<>Wiegand Converter	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 (Australia) 996300AU
Inception Controller (Europe) INCP-996300EU

inception
WEB POWERED SECURITY

DATA SHEET
Inception Controller

Four Door Access Control System

4 Universal Relay Outputs
Use the universal relay outputs to control the locks on up to 4 doors

8 Universal Inputs
Use the 8 universal inputs for Request to Exit (REX) buttons or to monitor the door reed and lock tongue sensors

RS-485 Reader Port
Connect up to 8 SIFER readers, or 8 Wiegand readers via OSDP <> Wiegand converters, for In & Out access on all four doors

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

4 Universal Relay Outputs
Connect 12V alarm sounders, strobe lights or switch external devices

8 Universal Inputs
Monitor a mix of EOL devices, buttons, switches or doors

inception
WEB POWERED SECURITY

DATA SHEET
Inception Controller

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, or 8 Wiegand readers via OSDP <> Wiegand converters, for In & Out access on all four doors

Inception with LAN Expansion Modules

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

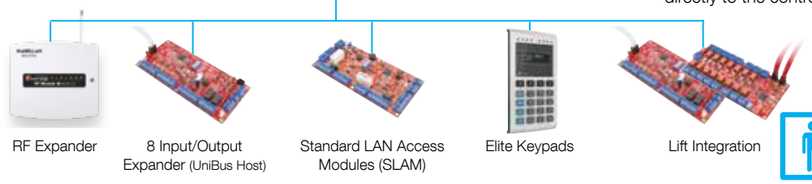
IP-Alarms over Ethernet
Use Inception's Ethernet port to send IP alarms to Multipath-IP equipped monitoring stations

8 Universal Inputs
Monitor a mix of EOL devices, buttons, switches or doors

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

RS-485 LAN Expansion
Add RS-485 LAN modules & Keypads to Inception to increase the system capacity up to 128 doors, 256 readers, 512 inputs & 512 outputs

RS-485 Reader Port
Connect up to 8 SIFER readers, or 8 Wiegand readers via OSDP <> Wiegand converters, for In & Out access for door locks connected directly to the controller



RF Expander | 8 Input/Output Expander (UniBus Host) | Standard LAN Access Modules (SLAM) | Elite Keypads | Lift Integration

www.innerrange.com
inner range
Intelligent Security Solutions

inception
WEB POWERED SECURITY

DATA SHEET
Inception Controller

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) *Note: A 12V, SLA Battery of 7AH to 18AH capacity must be connected to ‘BATT’ input.* 12.8V-14VDC 2.8A (e.g. a separate external battery-backed power supply) *Note: “DC IN” should not be connected when powered via the BATT connection*
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)	*Note: Does not include battery charging or current required by any peripheral devices.* 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	*See notes 1 & 2 below* 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 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 *(See note 2 below)*
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.

PRO636300D Inception Controller Data Sheet October 2017.