inner range

WIDE BODY LOW PROFILE ENCLOSURE

MANUAL

INNERRANGE.COM

P/N: 995204 / 995204NA

And powered variants depending on region.

OVERVIEW

The Wide Body Low Profile Enclosure is a locking general purpose ancillary enclosure.Powered variants of the product may also be available in your region, which incorporate a Battery-backed Inner Range 3A, 8A or 10A Smart Power Supply. (Note: Battery purchased separately). For availability, refer to your dealer &/or the Inner Range Catalogue for your region.

The enclosure can accomodate various combinations of a Power Supply, an Integriti, Infiniti or Inception Controller, LAN Modules, UniBus Boards &/or peripheral devices. Space is also provided for one or two Sealed Lead-Acid Batteries in the range of 6.5AH to 18AH capacity. Examples are provided on pages 5 to 8.

The Smart Power Supply provided in a “powered” variant, or available as a separate sub-assembly, can be used to power Integriti Modules and associated devices such as Detectors and Auxiliary Devices. Inner Range Smart Power Supplies feature a high reliability design that offers exceptional stability when used with the recommended battery type and is also compatible with Proximity type reader heads. Refer to the relevant Power Supply Installation Manual for details and specifications.

PARTS LIST

- Items marked with an asterisk are only provided in Powered variants.
- ‘NA’ variants only. Powered: Wiring diagram is pre-fitted to the inside of the cover.
- Un-powered: 2 wiring diagrams are provided. Installer must fit the relevant wiring
- diagram to the inside of the cover after the power supply option is chosen.
    - Locking Wide Body Metal Enclosure with Cover secured by M4x10 screws (x2)
    - 2 Keys. These are taped to the rear of the enclosure. Note that all enclosures are keyed alike.
    - Integriti Medium PCB Mounting Plate secured with M4 screws.
    - Tamper Switch Bracket Post secured with M3x6 screws, shakeproof and flat washers (x2).
    - Installation Manual. (This document)
    - Expansion Plate information note.
    - Smart Power Supply secured with appropriate hardware.
    - Mains Cable and associated hardware relevant to power supply type. e.g. grommet and cable entry plate.
    - Relevant Earth cables and installation hardware.
    - Smart Power Supply Installation Manual.
    - Self-adhesive Internal Wiring Diagram.
    - Panel-mount LED for mains present indication.
    - Installation Kit containing:
    - PCB Mounting Clip pack M3. (25 clips/screws)
    - 1 x Tamper Switch and Metal bracket.
    - 2 x 4.8mm Tamper switch connectors.

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- 1 x Integriti 10-way PSU Cable. 430mm. (P/No: 605062)
- 1 or 2 x Battery cable relevant to PSU installed.

SPECIFICATIONS

Dimensions: Length: 595 mm. (Allow at least 20mm at bottom of case for Mains cable entry)
Width: 512 mm. Depth: 90 mm.
Approx. Weight. Enclosure only: 8kg. (Not including Power Supply, Battery/s or PCBs) Typical installation: 16 kg. (Enclosure with 8A or 10A Power Supply, 18AH battery and Controller)
Operating Environment: 0º to 49º Celsius. 32º to 120º F. Ambient. 15% to 85% Relative humidity (non-condensing)
For Electrical Specifications of 'Powered' variants, see the relevant Power Supply Installation Manual".

REGULATORY INFORMATION

UL294 Requirements (North America)

Inner Range Power Supplies installed in this enclosure must be UL listed sub-assemblies.
e.g. Inner Range 3A Smart Power Supply. P/N: 996091PCB&K
Inner Range 10A Smart Power Supply. P/N: 996095

When purchased as an Un-powered Enclsoure, two (2) self-adhesive internal wiring diagrams are provided. The Installer must fit the relevant wiring diagram to the inside of the cover after the power supply option is chosen.

Cover Earthing. The enclosure cover has an M4 earthing stud. An earth wire is connected to this stud via an eyelet, M4 locking nut & washer. The other end of the earth wire must be connected to the Quick Connect terminal fitted to thebase of the enclosure. If cover is removed, when refitting the cover, ensure that the earthing wire from the cover isreconnected to the Quick Connect terminal.

AC Mains Present Indication. North American versions of this product inlcude a red 'mains present' indicator LED in the top panel of the enclosure. This LED must be connected to an output that is configured to turn the LED On when mains is present and Off when not present. See page 3 for details and wiring diagrams.

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), local codes, and the authorities having jurisdiction.

The Integriti or Inception Controller, remote Modules and UniBus in-cabinet expansion boards are acceptable for indoor use only and must be installed within the protected premises.

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The AC power cord must not be plugged into an outlet controlled by a switch.

If a separate power supply is utilized for ancillary power (e.g. For electric locks), the power supply must be a UL Listed Access Control or Burglar Alarm, Low-Voltage Class 2, Power-Limited, power source capable of a minimum of 4 hours standby power.

All cabling must be UL Listed and/or Recognized wire

All interconnecting devices must be UL Listed.

Connect outputs to power limited sources only.

An Integriti or Inception access control system must be used with UL listed Card Readers. The following Listed Card Readers configured for Wiegand or RS485 (OSDP) output are compatible with the system:

- Inner Range SIFER Reader - HID Proximity
- Inner Range SIFER-Keypad Reader - HID iClass/iClass SE

Fuse Replacement: CAUTION - FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE, REPLACE WITH ONLY THE SAME TYPE AND RATING OF FUSE

OPTIONAL PARTS & ACCESSORIES

NOTE: Availability varies by region.
Check notes below and your local catalogue or dealer.

PART NUMBER	DESCRIPTION	NOTES
999002	PCB Mounting Clip Pack.	25 Clips & Screws
999013	Tamper Switch Bracket for 15mm Tamper Switch	Pack of 4.
999064	Tamper Switch N/C.	Pack of 2.
996091PCB&K	3A Smart Power Supply	
996092	8A Smart Power Supply 220-240VAC only.	Not available in all regions.
996095	10A Smart Power Supply Not available in all regions	Check with supplier.
996792	Smart PSU Patch Cable 430mm10-way	
999027	Widebody Hinged Expansion Plate Option	
995915	Mini LAN Hub Board 8-Way RS-485 Hub	

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AC MAINS PRESENT INDICATION

In regions where AC mains present indication is required, this can be implemented via:

a) The low-level Open-Collector outputs provided on Inner Range Smart Power Supplies.

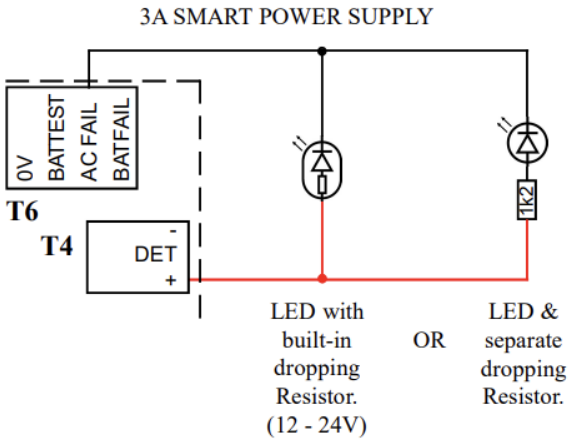
b) The AC Indicator LED Adapter (P/N: 995917). e.g. For Inception Controllers powered by the 2.5A 24V DC Adapter.

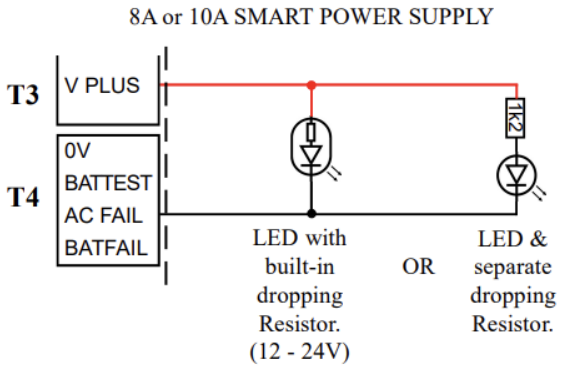
NOTE: Any LED used for this purpose, must have an appropriate series dropping resistor fitted to the LED or integrated into the

An LED mounting hole is provided in the top panel of the enclosure.

A 12-24V red LED (with integral dropping resistor) is pre-fitted in North American enclosures. This LED may be connected to the 'AC' input on an Integriti Security Controller (ISC) if an Inner Range Smart Power Supply is not present in the enclosure. The mounting hole is sealed with a blanking plug in other regions.

The diagrams below show how to connect the LED to an Inner Range Smart Power Supply for visual indication of 'AC Mains Present'. (LED On = AC mains is present) For the AC Indicator LED Adapter refer to the Installation Manual for that product; Document P/N: 635917.





INSTALLATION

(Refer to drawings on pages 3 to 6)

1. Installation environment should be maintained at 0º to 49º Celsius (32º to 120º F) and 15% to 85% Relative humidity (non-condensing).
2. The enclosure must be secured to a flat, vertical surface using appropriate fasteners through the six "keyhole "mounting holes in the base. The Power Supply and Battery space must be at the bottom as shown on pages 3 & 6.
3. When mounting this product onto flammable surfaces, a fire protection backplate MUST BE INSTALLED. Any Conduit entry points that have had the knockout removed but are not used, must also be resealed using 25mm Conduit Plugs. See Diagram 1 below.

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4. Fit the tamper switch into the tamper switch bracket. Install this assembly by placing the tamper switch plunger in the round hole provided in the base, and the tongue on the bracket through the slot provided in the lip in the top of the chassis. See Diagram 2 below and page 3.
5. An additional Tamper switch may be fitted in the centre of the enclosure if required. A Tamper switch bracket mounting post is provided for this purpose. Installation is done in the same manner as described in Step 4.See Diagram 2 below and page 3.
6. A hinged extension plate may be purchased that can be mounted in the top left of the enclosure. This plate provides an additional PCB mounting surface above other PCBs mounted in that area .P/No: 999027. See page 5 for details.
7. One or two Batteries may be installed in the bottom of the enclosure. See Page 6.
8. The metal chassis is electrically earthed and the Circuit Board Assemblies are electrically isolated from the chassis. When mounting and wiring the Module, the Installer must ensure that this isolation is maintained.

Power Supply connections.

See the relevant Smart Power Supply Installation Manual.

Fitting the Cover.

To comply with regulations, the cover must be fitted and the two screws provided to fix the cover to the chassis must be tightly secured.

Diagram 1.
Refer to "Mounting the Unit", Step 3.

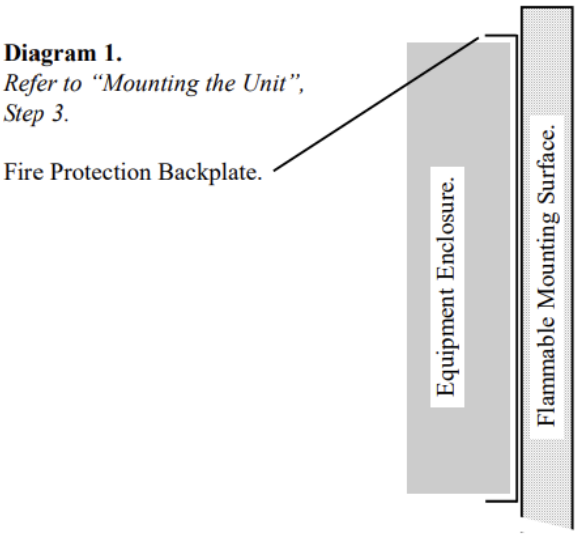


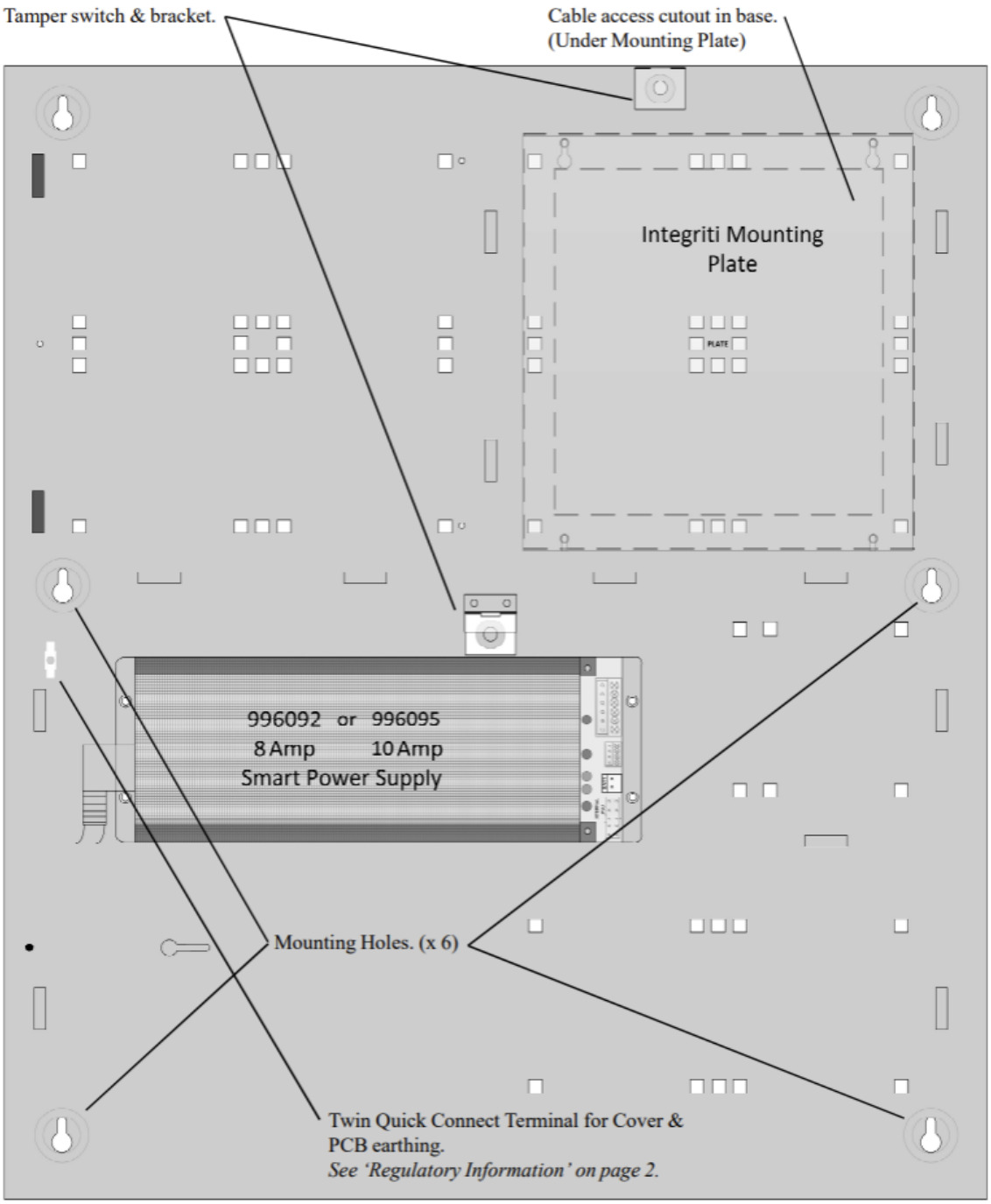
Diagram 2.
Refer to "Mounting the Unit", Step 4.

Tamper Switch in bracket.



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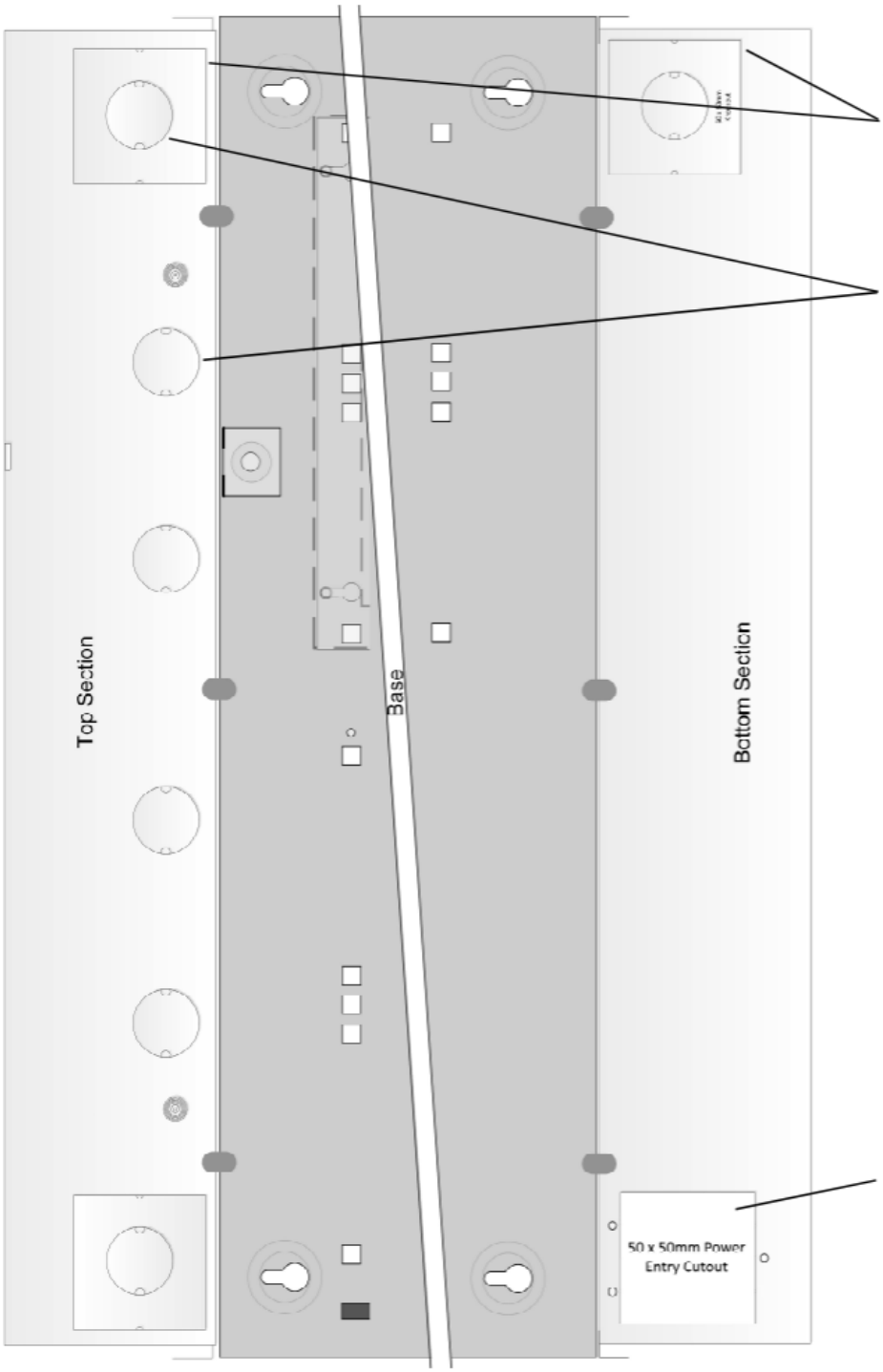
Top and bottom sections of the base of the enclosure as viewed from the inside.



Power Supply example shown is the optional 8A or 10A Smart Power Supply. Availability depends on region.

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Top and bottom sections of the base of the enclosure as viewed from the inside.



Knockouts are provided for:

50mm Square Conduit.
3 in total.

and

25mm Round Conduit.
7 in total (Note that 3 are incorporated into the 50mm knock-outs)

Mains Power entry.
Fit appropriate cable entry plate or conduit entry plate if not already fitted.

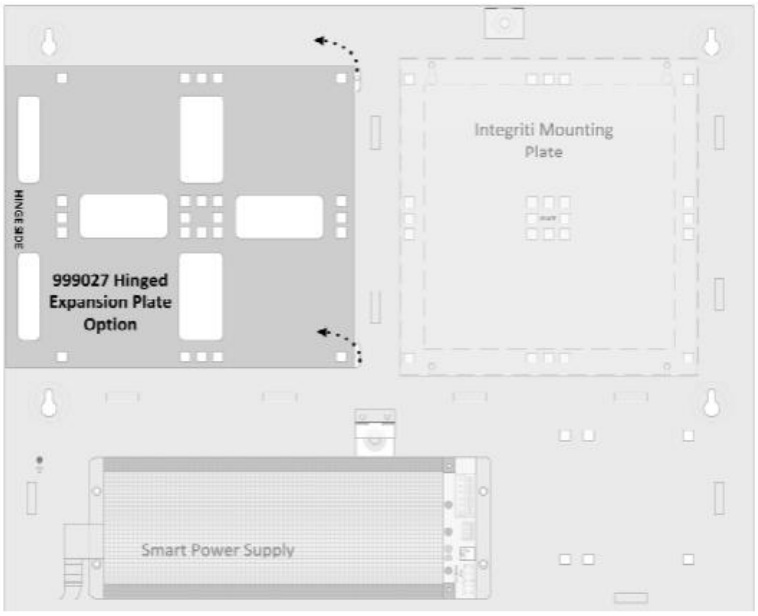
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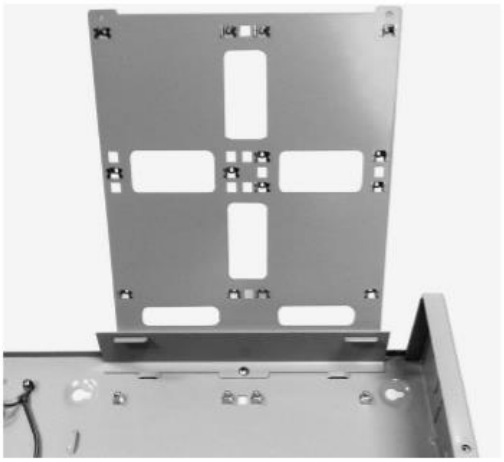
Hinged Expansion Plate Option. P/N: 999027 (Purchased separately)

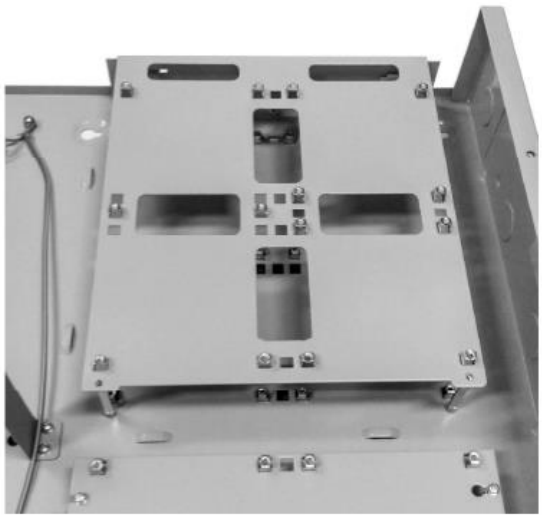
A hinged Expansion Plate can be fitted as shown below allowing an additional layer of PCBs to be fitted inside the enclosure.

When fitted, PCB assemblies up to 34mm in height can be installed both on and under the Expansion Plate.

Note that the Integriti Security Controller (ISC) is larger than 34mm in height. If an ISC is to be installed in the enclosure, it must be installed on the original mounting plate





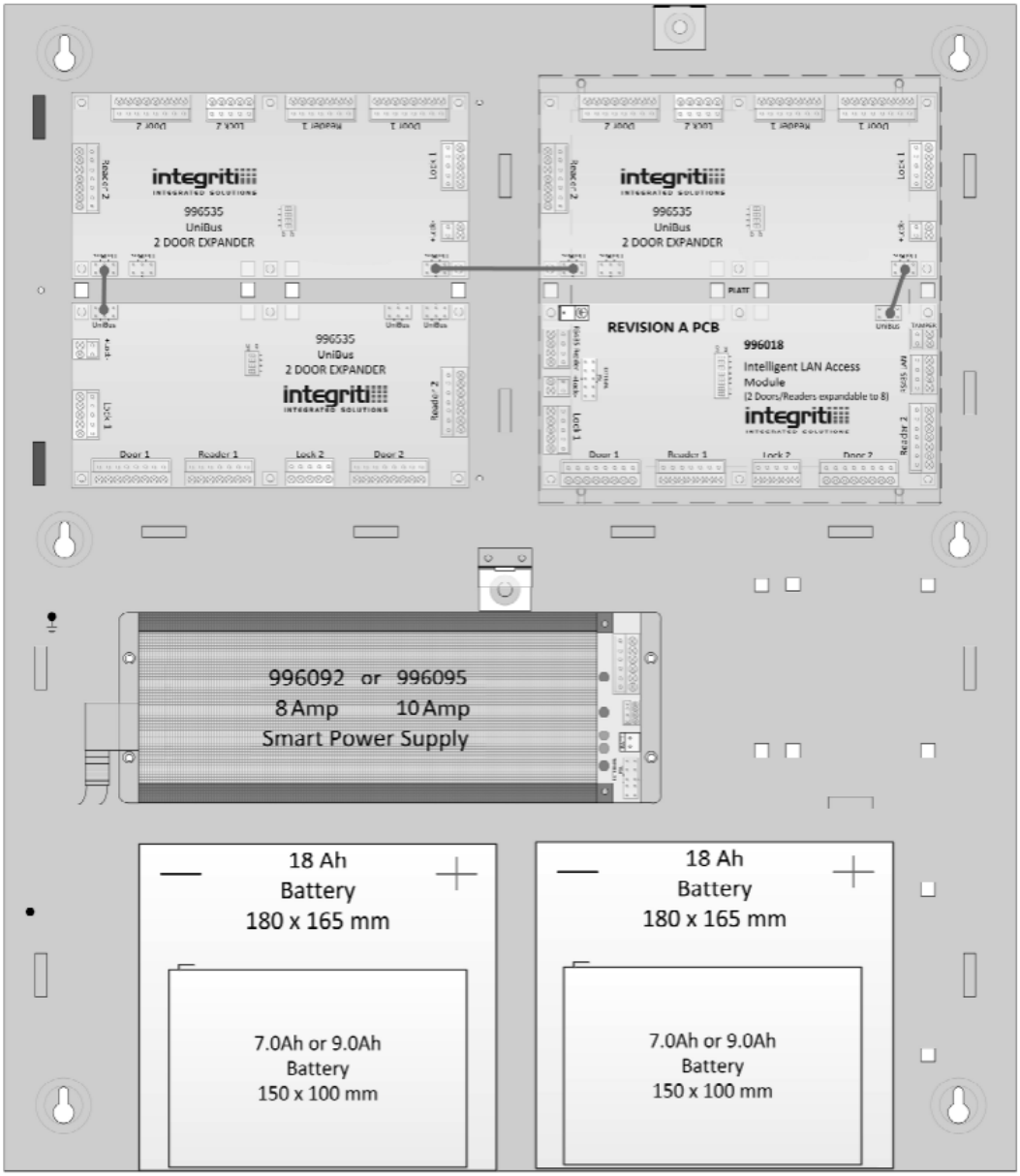


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Layout Example: 8 Door Access Control.

This layout consists of:

1. 1 x Integriti 2 Door/2 Reader Intelligent LAN Access Module (ILAM).
2. 3 x UniBus 2 Door/2 Reader Expansion Boards.
3. 1 x 8 Amp Smart Power Supply and 1 or 2 Batteries as required.



Designed in Australia.

Due to on-going product development this manual is subject to change without notice.

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