

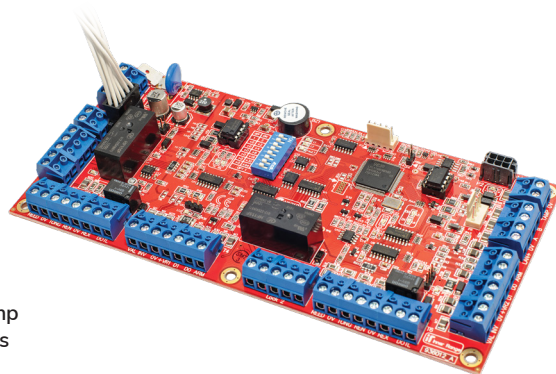
# Intelligent LAN Access Module (ILAM)

The Intelligent LAN Access Module (ILAM) can be used to control and monitor up to 8 Doors or Lift cars on the Inner Range RS-485 LAN, or via IP LAN if connected using Ethernet Bridge or CLOE devices. The base module supports 2 doors/2 readers and is expandable up to 8 doors/8 readers with the simple addition of 2 Door expander boards via the UniBus in-cabinet expansion interface.

The Intelligent LAN Access Module offers a complete suite of programmable options to provide advanced high-security access control, security area control and door alarm monitoring functions. Offline intelligence is also provided via the on-board database to provide access control functionality and event logging even if communications to the master controller are severed. Upon re-connection, all buffered events and any programming changes are automatically synchronised with the main Controller.

The ILAM is also used for integration of wireless door locking systems from Assa Abloy Aperio, SimonsVoss or Salto Sallis. Please see our website for Wireless Locking system Integration Guides for more details.

The power supply requirement is 11 to 14V DC and a range of Inner Range 2Amp, 3Amp or 8Amp Switch Mode power supplies are available. The SMART 3Amp & 8Amp models are fully monitored via the Intelligent LAN Access Module.



## Intelligent LAN Access Module with UniBus In-Cabinet Expansion

- Up to 8 Doors
- Up to 8 Wiegand readers or 16 SIFER RS-485 Readers
- Up to 8 Lift cars

### Features

- RS-485 LAN connectivity
- RS-485 Reader connectivity (up to 16 SIFER or third party OSDP Readers)
- Reader options to control Doors, Lifts, Areas and User Logon
- Supports Wiegand card readers up to 88bits
- Reader outputs with individual self-resetting overcurrent protection
- UniBus in-cabinet expansion interface
- Dedicated lock power input
- External Inner Range power supply connection
- Full monitoring of external Inner Range power supply
- Heavy duty lock relays
- Reader Valid & Invalid outputs
- Door reed & tongue sense inputs per door
- Door request to enter & exit inputs per door
- DOTL relay outputs per door
- Dedicated cabinet tamper input
- Small PCB size 200 x 95mm
- Over-The-Wire firmware upgradable
- Built-in module locater buzzer

### Doors, Expansion & Integration Options

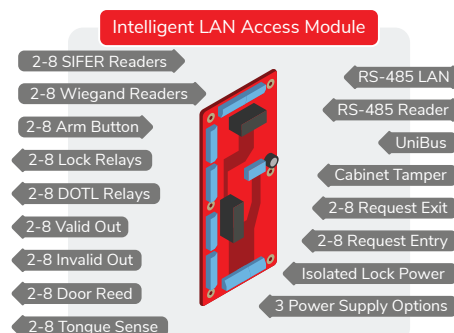
- Expandable to 8 Doors (2 Doors on-board)
- Expandable to 16 Inner Range SIFER or third party OSDP RS-485 readers via the dedicated RS-485 reader port
- Expandable to 8 Wiegand Readers (2 Readers on-board)
- Five enclosure sizes allow 2, 4, 6 or 8 Door/Reader configurations
- Three plug on external power supply options (2A, SMART 3A or SMART 8A Switch Mode)
- Aperio, SimonsVoss, Salto Sallis integration - up to 8 Doors via RS-485 Reader port
- Lift button I/O interfacing via optional UniBus Lift interface card (Up to 96 Floors)

### Offline Intelligence

- Offline intelligence provided for all Wiegand readers and standard lock outputs
- Offline Access Control database for 100,000 users
- Offline time periods
- Offline event database of 100,000 events

| UniBus Device Compatibility Guide |                            | UniBus Host Module |     |                 |      |
|-----------------------------------|----------------------------|--------------------|-----|-----------------|------|
| UniBus Device                     |                            | ISC                | IAC | 8 Zone Expander | ILAM |
|                                   | 8 Zone Expander            | 2                  | 0   | 3               | 0    |
|                                   | 8 Relay Expander*          | 4                  | 2   | 4               | 2    |
|                                   | 2 Door / 2 Reader Expander | 0                  | 3   | 0               | 3    |
|                                   | 16 Floor Lift Interface    | 6                  | 6   | 6               | 6    |
|                                   | RS-232/RS-485 UART         | 4                  | 4   | 0               | 0    |
|                                   | Analogue Expander          | 4                  | 0   | 6               | 0    |

### Connectivity



### Specifications

#### Controller Compatibility

Compatible with: **Integriti, Inception**

#### Physical

|                           |                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Enclosure Options:        | Small - 252(L) x 358(W) x 85(D) (mm): Part# 995200PE2 or 995200PE3 - houses 1 x 996018*                                        |
|                           | Medium - 460(L) x 358(W) x 85(D) (mm): Part# 995201PE2, 995201PE3 or 995201PE8 - houses 1 x 996018 + up to 2 x 996535*         |
|                           | XLarge - 702(L) x 358(W) x 85(D) (mm): Part# 995203PE2, 995203PE3 or 995203PE8 - houses 1 x 996018 + up to 3 x 996535*         |
|                           | WideBody - 580(L) x 510(W) x 95(D) (mm): Part# 995204PE3 or 995204PE8 - houses 1 x 996018 + up to 3 x 996535*                  |
|                           | Rack Mount - 2RU 680(L) x 420(W) x 85(D) (mm): Part# 995220PE2, 995220PE3 or 995220PE8 - houses 1 x 996018 + up to 3 x 996535* |
| PCB Size Code:            | Integriti "B" size                                                                                                             |
| PCB Dimensions:           | 200(L) x 94(W) x 45(D) (mm)                                                                                                    |
| Shipping Weight :         | 270grams. (Circuit board & Accessories only)                                                                                   |
| Installation Environment: | 0°C - 70°C @15% - 90% Relative humidity (non-condensing)                                                                       |

#### Electrical (For PCB Only)

|                                                                                                                                                                                                                             |                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Power Supply Input:                                                                                                                                                                                                         | 11V to 14V DC                                              |
| Current Consumption:                                                                                                                                                                                                        | 110mA standby. 175mA with lock relays on                   |
| NOTE: Current consumption does not include the current required by readers or other external devices such as locks, buzzers, lamps or any device attached to the DOTL, Valid, Invalid, RS-485 Reader and UniBus connections |                                                            |
| Over Current Protection:                                                                                                                                                                                                    | Reader +V connections. Protected with self-resetting PTC's |

#### Contact Ratings

|              |                                            |
|--------------|--------------------------------------------|
| Lock Relays: | 5 Amps @ 30V DC                            |
| DOTL Relays: | 1 Amp @ 30V DC (Door Open Too Long output) |

#### Connections

|                       |                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Lock 1 & 2:           | Includes Lock+, Lock-, NO/COM/NC                                                                                                        |
| Door 1 & 2:           | Includes Reed, 2 x 0v, Tongue, REN, REX, DOTL contacts                                                                                  |
| Wiegand Reader 1 & 2: | Includes Valid, Invalid, 0V, Reader+, D1, D0, ARM                                                                                       |
| Lock Power:           | Includes Lock+, Lock- connections from external PSU                                                                                     |
| Cabinet Tamper:       | 2 pin connection for cabinet tamper switch                                                                                              |
| UniBus Port:          | 1 x UniBus Host expansion port                                                                                                          |
| RS-485 LAN:           | 1, Includes LAN+, LAN-, A, B. (LAN addressing set via DIP switches)                                                                     |
| RS-485 Reader:        | 1, Supports up to 16 Inner Range SIFER or compatible OSDP readers, or 1 Salto Sallis, Aperio or SimonsVoss wireless access control hub) |

#### External Power Supply Monitoring (Compatible with IR SMART PSU Devices)

|                |                           |
|----------------|---------------------------|
| AC Fail:       | External PS AC Fail       |
| Low Battery:   | External PS Low Battery   |
| LAN Fuse:      | External PS LAN Fuse      |
| Detector Fuse: | External PS Detector Fuse |
| Low Volts:     | External PS Low Volts     |
| PSU Fail:      | External PS Fail          |

#### Compliance

Electrical   

#### Environmental

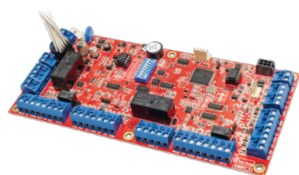
**RoHS** 

\*Additional external power is required for 6 and 8 door configurations. v

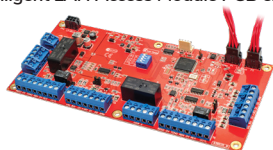
### Ordering Options

### Reader Options

### Enclosure Options



**996018PCB&K**  
Intelligent LAN Access Module PCB & Kit.



**996535PCB&K**  
UniBus 2 Door Expander PCB & Kit



**994720**  
SIFER Smart Card Reader  
**994720MF**  
Multi-Format SIFER Smart Card Reader  
**994725**  
SIFER Keypad/Reader  
**994725MF**  
SIFER Keypad/Reader Multi-Format enabled



**Small**  
995200PE2 - 2Amp PSU  
995200PE3 - 3Amp SMART PSU  
**Medium**  
995201PE2 - 2Amp PSU  
995201PE3 - 3Amp SMART PSU  
995201PE8 - 8Amp SMART PSU  
**Extra Large**  
995203PE2 - 2Amp PSU  
995203PE3 - 3Amp SMART PSU  
995203PE8 - 8Amp SMART PSU

**WideBody**  
995204PE3 - 3Amp SMART PSU  
995204PE8 - 8Amp SMART PSU  
**Rack Mount Drawer**  
995220PE2 2RU - 2Amp PSU  
995220PE3 2RU - 3Amp SMART PSU  
995220PE8 2RU - 8Amp SMART PSU