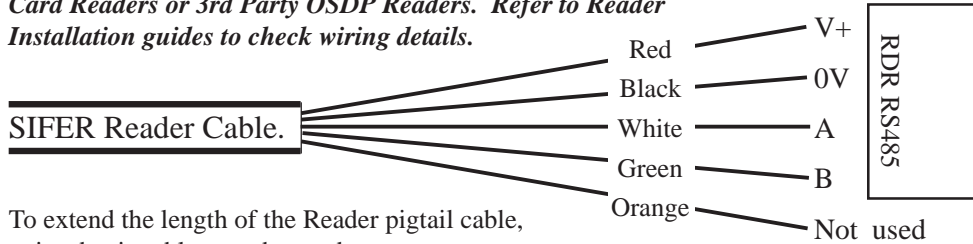


**READER WIRING. T1. (RS485)**

*T1 is provided for connecting Inner Range SIFER Smart Card Readers or 3rd Party OSDP Readers. Refer to Reader Installation guides to check wiring details.*



To extend the length of the Reader pigtail cable, twisted pair cable must be used:

Pair 1: Data A/B      Pair 2: V+/0V.      See Reader manual for details.

**Wiegand/Clock&Data Reader Supply Voltage Link Settings**

READER	LK2/LK3
Inner Range Secure40 Prox Reader	12V
Omron Mag Swipe / HID Swipe / Insertion / Turnstile Wiegand Card Readers	5V
HID ProxPoint / MiniProx / ThinLine / iClass R10 / R15 / R30 / R40	5V
HID ProxPro. HID iClass R90 / RKL55	12V
Indala. SlimLine(Mullion) / WallSwitch / PinProx / ValueProx	5V
Indala. Standard / Mid Range 610 / MasterProx / Long Range 620	12V

NOTE: It is recommended that Readers with wide supply voltage ranges (e.g. 4V to 14V, 5V to 16V, etc.) are powered with 5V unless 12V is required for a longer read range.

**Specifications**

**Mechanical**

PCB dimensions:            L: 200mm. W: 94mm    H: Allow 45mm.  
Installation environment:    0° to 50°C. 15-85% relative humidity (non-condensing)

**Electrical**

Power Supply Input:        11V to 14V DC  
Current Consumption.       110mA standby. 175mA with both lock relays On (Unlock).  
NOTE. These figures do NOT include the current required by Readers or peripherals such as Lamps or Warning devices connected to the Lock, Valid, Invalid or DOTL outputs.  
Relay Contact rating:       5 Amps @ 30VDC.  
DOTL Relay Contact rating: 1 Amp @ 30V DC.  
Overcurrent Protection:    250mA. Self-resetting. +VR1/+VR2 only used to supply  
(T4 +VR1 and T7 +VR2)    power to the Reader and associated LEDs and Piezo beeper.

**Integrati**  
**Cached 2-Door**  
**Standard LAN Access Module (SLAM)**  
**P/N: 996012PCB&K**  
  
**Installation Manual.**

**Overview**

The Standard LAN Access Module supports up to 2 Doors and up to 4 Inner Range SIFER Readers or up to 2 Wiegand/Clock&Data Readers. A single Reader per Door is supported regardless of Reader type. Entry & Exit Readers are supported for both Doors when SIFER Readers are used, or for a single Door with Wiegand/Clock&Data Readers.

An on-board cache of up to 2000 User cards is supported to provide continued operation if communications to the master controller is lost.

Heavy duty relays are provided for lock switching, along with Auxiliary outputs for “Valid”, “Invalid” and “DOTL Warning” to control LEDs and/or Buzzers.

The Module is supplied as a PCB kit for installation in a range of Integrati enclosures, and can be powered from a separate Integrati Battery-backed Power Supply, or from the Integrati LAN if adequate current is available from the Module providing the power source. If powered from the LAN, a separate battery-backed Power Supply should be used for Lock power.

Programming options allow for each Reader to be configured independently and Area Control to be integrated with Access Control where required. Door Contacts and/or Tongue Sense inputs are utilized to provide “Door Forced” and “Door Open Too Long” alarms and any spare Zones can be used for PIRs, PE beams, and other detection devices.

**IMPORTANT NOTES:**

- 1) A SLAM is identified on the Integrati LAN as a 2-Door Reader Module (R).
- 2) UniBus expanders CANNOT be used on SLAM Modules.
- 3) To erase Card Cache. Power down, set all DIPswitches to ON then re-apply power. Power down again, set Module number then re-apply power again.
- 4) Firmware / Software Compatability.
  - Integrati Controller Firmware V4 or later is required.
  - Integrati Software Version 4 or later is required.
- 5) Lock Relay Auxiliary Numbers.
 

Lock 1 Relay (RLY1)	Rxx:X01
Lock 2 Relay (RLY2).	Rxx:X02

## Installation.

### Parts List.

- Integriti Standard LAN Access Module PCB assembly.
- Installation Manual. (This document)
- **Installation Kit containing:**
  - 10 x 2k2 End-of-line resistors. (red-red-black-brown-brown)
  - 10 x 6k8 End-of-line resistors. (blue-grey-black-brown-brown)
  - 2 x 1N4004 protection diodes. (For connecting across lock strike)
  - 2 x 8 Way Plug on Screw Terminals. - 4 x 3 Way Plug on Screw Terminals.
  - 2 x 4 Way Plug on Screw Terminals. - 8 x 2 Way Plug on Screw Terminals.
  - 6 x Metal M3 Mounting Clips. - 1 x 0.1" Jumper Link.
  - 6 x M3 x 10mm screws. - 1 x Earth Cable, Chassis to PCB.
  - 1 x Integriti SLAM enclosure label. - 1 x 4.8mm QC connector.

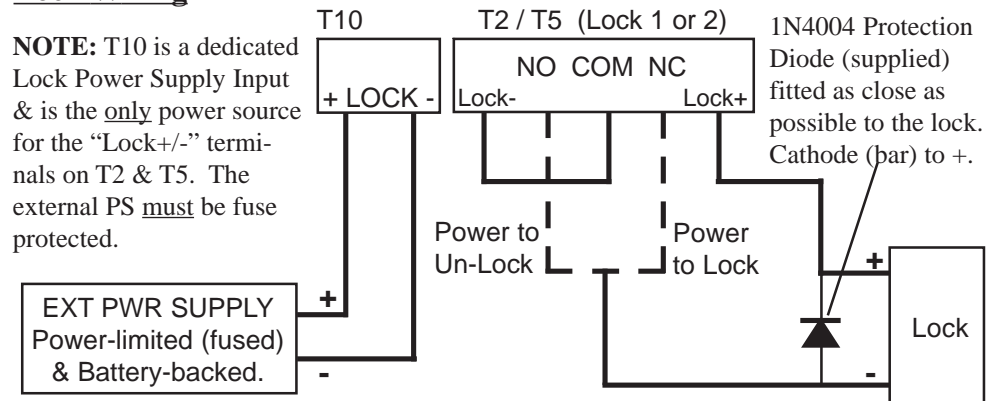
### Installation

1. Install the Module in a suitable Integriti enclosure using the PCB mounting clips.
 

995200PEI Small Encl. 2A PSU.	995201PEI Medium Encl. 3A PSU.
995203PEI XLarge Encl. 3A PSU.	995203PE8 XLarge Encl. 8A PSU.
995204PE8 Widebody Encl. 8A PSU.	
2. Mount the enclosure in a convenient location using fasteners through the four or six mounting holes in the base.
3. Insert the "Normally Closed" Tamper Switch into the hole provided in the Tamper switch bracket. The Tamper Switch bracket must then be positioned in either of the two slots provided in the chassis before the chassis is mounted on the wall. The Tamper switch is wired between the "TAMP" and "0V" terminals on T9. (Switch is Open circuit when plunger depressed)
4. Using the Earth cable provided, connect the Earth LUG on the SLAM PCB to either:
  - The Earth terminal on the Power Supply. e.g. Integriti 2A or 3A Smart PSU.
  - The earth stud (if provided) or another suitable point on the metal chassis.
5. Set the Module Number using DIPswitches 1 to 7. *See table on page 3.*
6. Door Reed, Tongue, REN and REX Inputs are wired using End-of-Line (EOL) Resistors (default option). ARM button Inputs are wired to the Normally Open contact of the button, while the COMMON contact is connected to GND and no EOL Resistors are used. An "Override EOL" option is provided in Module programming in the Integriti Software to allow REX and REN Inputs to be wired in the same manner as the ARM button (no EOL) for compatibility with existing installations. *See wiring diagram on page 6.*

### Lock Wiring

**NOTE:** T10 is a dedicated Lock Power Supply Input & is the only power source for the "Lock+/-" terminals on T2 & T5. The external PS must be fuse protected.



Heavy duty Fig. 8 cable (24/0.20 or 14/0.20) recommended for all Power & Lock wiring.

### LOCK/DOTL Relay Auxiliary ID Numbers.

<b>SLAM Board</b>	<b>Door 1.</b>	Lock: Ixx:X01	DOTL: Ixx:X09
	<b>Door 2.</b>	Lock: Ixx:X02	DOTL: Ixx:X10

### Reader Wiring. T4 & T6. (Wiegand / Clock & Data)

*Always refer to Reader Installation guides to check wiring details. Readers connected to T4 or T6 must be wired with Shielded Data cable. DO NOT use twisted pairs!*

Reader power and data connections are wired according to the following table.

READER	D0 R#	D1 R#	+VE	GND
Omron Swipe	Brown (Data)	Red (Clock)	Yellow	Green
IR Secure40 Prox Reader	Green	White	Red	Black/Shield
HID/Indala with flying leads	Green	White	Red	Black/Shield
HID with screw terminals	Data 0	Data 1	+VE	GND

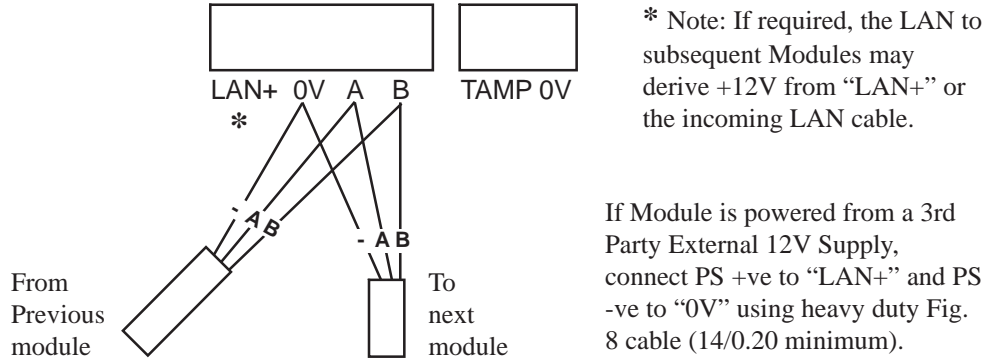
The LED control wires provided on many Readers can normally be wired directly to the VALID / INVALID outputs on the Reader Module if required. (The dropping resistor is usually built in to the reader) Check information supplied with the Reader for LED control details before connecting.

If +VR is used to power external LEDs or dropping resistors are not provided in the Reader, connect a 1.2kOhm resistor between +VR & the LED Anode.

When "No LEDs" option enabled: Rdr1 VAL = X05	Rdr2 VAL = X07
Rdr1 INV = X06	Rdr2 INV = X08

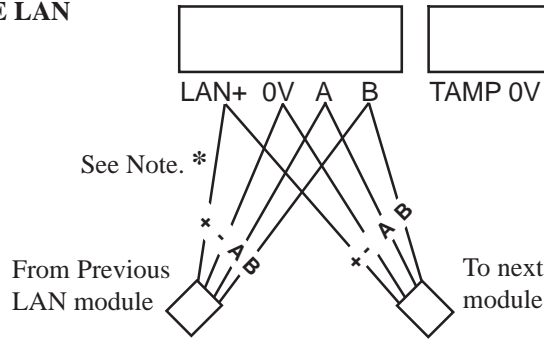
**LAN Wiring**

**MODULE POWERED FROM INTEGRITI EXTERNAL SUPPLY (Recommended)**



**MODULE POWERED FROM THE LAN**

\* Note: If both “LAN +VE” wires provide a Power supply source, the one that is not required to power the Module must not be connected.

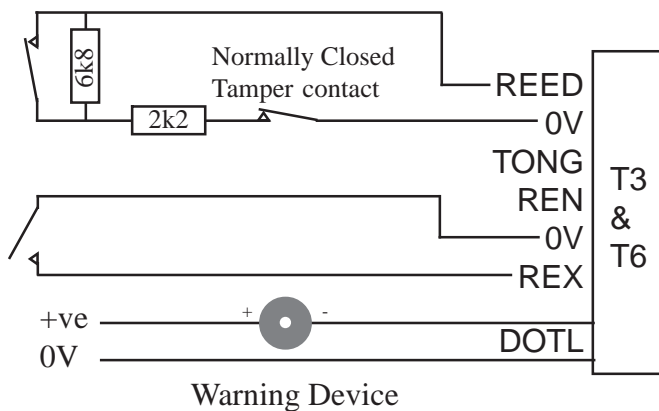


**Zone Input, Button & DOTL wiring**

Normally Closed contact.  
- REED & TONGUE.  
- REX & REN if “Override EOL” Disabled (default).

Normally Open Button contact.  
- ARM button.  
- REX & REN if “Override EOL” Enabled)

Normally Open DOTL Relay output.



**Module Numbering**

The Reader Module number is set using DIPswitches 1 to 7. The Module number equals  $n + 1$ , where  $n$  is the binary number set on DIPswitches 1 to 7.

Module No:	DIPswitch:	1	2	3	4	5	6	7
	Binary value:	1	2	4	8	16	32	64
1		off	off	off	off	off	off	off
2		ON	off	off	off	off	off	off
3		off	ON	off	off	off	off	off
4		ON	ON	off	off	off	off	off
5		off	off	ON	off	off	off	off
6		ON	off	ON	off	off	off	off
7		off	ON	ON	off	off	off	off
8		ON	ON	ON	off	off	off	off
through to								
99		off	ON	off	off	off	ON	ON

**Status and Fault LEDs**

- L1 RX.** Valid LAN packet received or LAN Fault indication. *See table below.*
- L2 TX.** LAN packet sent or LAN Fault indication. *See table below.*
- L3 FAULT.** On = LAN Fault. Refer to L1/L2 for fault details.
- L4 SYS.** Flashing = Module is powered and firmware running OK.
- L5/L6 Reader D0/D1** Data Receive indication for onboard Reader 1 Inputs.
- L12/L13** “+VR1” / “+VR2” Fault indication. e.g. Over current.
- L14 UniBus** Flashing Idle. No UniBus cards connected.  
Off OK. UniBus Card/s communicating correctly.  
On Fault. Problem with one or more UniBus Cards. e.g. Address conflict.

**L16/L17** Lock 1 / Lock 2 Relay On indication.

L1	L2	EXPLANATION / REMEDY
ON	ON	Module is un-addressed. (Not communicating with the Controller)
ON	OFF	Too many Modules on the Network. Check limits and licencing.
OFF	ON	Module type unknown. Controller firmware upgrade required.
Flash	ON	Duplicate Module. Number already in use by module of the same type.
Flash	Flash	Module number selected is too big. Select a lower Module number that is not already in use or check limits and licencing.
OFF	Flash	Module disabled.

**T11. Earth Lug.**

Refer to "Installation" on p2.

**T1. RDR RS485.**

Connection for Readers with RS485 output format. Refer to page 8 & SIFER Reader installation guide.

**P1. External Power.**

(Does not provide Lock Power) Connects to:  
 - An Integriti Power Supply using the cable provided with the PS.  
 - A 3rd Party Power Supply using cable P/ No: 996794 (500mm)

**T10. Lock +/-.**

Power input for "Lock+/-" on T2 & T5. See "Lock Wiring" p7.

**T2 / L16. Lock 1 Relay & indicator LED.**

See "Lock Wiring" on page 7.

**T3. Door 1 Input / Output connections.**

See "Zone Input, Button & DOTL wiring" on p6.

- REED Reed Switch Input. EOL resistors required.
- 0V 0 Volt return for Input connections.
- TONG Optional Tongue Sense I/P. EOL resistors required.
- REN Entry Button I/P. EOL resistors optional.
- REX Exit Button Input. EOL resistors optional.
- DOTL "DOTL Warning" Relay output. If connecting to Reader Beeper, connect other contact to 0V.

**LK1. TERM.**

Reader RS485 Termination. Refer to Reader installation guide.

**RS485 RX (L10)** See Page 3.

**RS485 TX (L11)** See Page 3.

**DIPswitch SW1: Switch 1-7.**

Module number. See table on p3.

NOTE: To erase the Card Cache, power-up with all DIPswitches (1-8) ON. See Note 3 on page 1.

**L1** LAN Data Receive / Fault indication.

**L2** LAN Data Transmit / Fault indication.

**FAULT** LAN Comms Problem. See table on p3.

**T9. Tamper Switch Connection**

See "Installation" on page 2.

**P5. Ancillary LAN connection.**

**T8. Integriti LAN connection.**

See "LAN Wiring" on page 6.

**LK2 / L12  
LK3 / L13**

Reader Supply voltage. 5V / 12V and Fault LED. See details on page 3 and page 8.

**T7. Reader 2 connection**

See T4 for details.

- D0 (L5).** Data 0's I/P. Either Reader.
- D1 (L6).** Data 1's I/P. Either Reader.

**T6. Door 2 Input/Output connections.** See T3 for details.

**SYS. L4.** Flashing = OK. See Page 8 for details.

**T5 / L17. Lock 2 Relay & indicator LED.** See p7 (Lock Wiring) & p8 (Specs).

