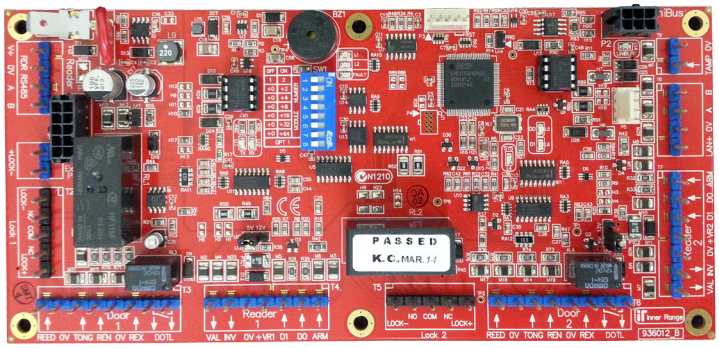
Intelligent LAN Access Module (ILAM)

Controls and monitors up to 8 Doors or Lift cars on the Integriti RS-485 LAN

The Integriti Intelligent LAN Access Module (ILAM) can be used to control and monitor up to 8 Doors or Lift cars on the Integriti RS-485 LAN, or via IP LAN if connected with CLOE modules (Code# 20500). The base module supports two doors/two readers and is expandable up to eight doors/eight readers with the simple addition of 2 Door expander boards via the UniBus in-cabinet expansion interface.



The Integriti 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 master controller.

The ILAM is also used for integration of Salto Sallis wireless door locking systems. Please refer to the Integriti – Salto Integration Guide for more details. The power supply requirement is 11 to 14VDC and a range of Integriti plug on external 2Amp, 3Amp or 8Amp switchmode power supplies are available. Integriti external power supplies are fully monitored via the Intelligent LAN Access Module.

Key Features

- RS-485 LAN connectivity
- Reader options to control Doors, Lifts, Areas and User Logon
- Supports 2 Wiegand card readers up to 88bits (up to 8 with UniBus Expansion)
- Supports up to 16 Inner Range RS-485 SIFER readers
- Reader outputs with individual self-resetting over current protection
- UniBus in-cabinet expansion interface
- Dedicated lock power input
- External Integriti power supply connection
- Full monitoring of external Integriti 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

Doors & Expansion Options

- Expandable to 8 Doors (2 Doors on board)
- 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, 3A or 8A Switchmode)
- Salto Sallis integration - up to 8 Doors via dedicated RS-485 reader port
- Lift button I/O interfacing via optional UniBus Lift interface card** (Up to 96 Floors)
- Expandable to 16 RS-485 readers via the dedicated RS-485 reader port*

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

* Product under development at time of publication.

Uni-Bus In-Cabinet Expansion

UniBus is an innovative in-cabinet bus which allows the connection of Expansion devices, Communications devices and Door & Reader expansion devices on a common Plug & Play bus.

UniBus is built on the highly reliable CANBus technology and replaces the need for ribbon cables and specialised connectors. Up to six UniBus devices can be daisy chained to a UniBus host module.

Uni-Bus Compatibility

		Host Modules			
		ISC	IAC	8 Zone Exp	ILAM
Unibus Modules	8 Zone Exp	2	0	3	0
	8 Relay Exp	4	4	4	2
	16 Floor Lift	6	6	6	6
	2 Door Exp	0	3	0	3
	2 Way UART	4	4	0	0

Specifications

Physical	
PCB Size Code:	Integriti “B” size
PCB Dimensions:	200(L) x 94(W) x 45(D) (mm)
Weight:	8.2 k.g. (Based on medium enclosure, mains transformer, 7AH battery and cover)
Installation Environment:	0ºC - 40ºC @15% - 85% Relative humidity (non-condensing)
Electrical (For PCB Only)	
Power Supply Input:	11V to 14VDC
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 @ 30VDC
DOTL Relays:	1 Amp @ 30VDC (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 (Serial reader interface - under development at time of publication)
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	CE
Environmental	RoHS

Enclosure Options

Code#	Description
21151	Integriti - Intelligent LAN Access Module - Standard Cabinet - 2 Amp PSU
21154	Integriti - Intelligent LAN Access Module - Standard Cabinet - 3 Amp Smart PSU
21152	Integriti - Intelligent LAN Access Module - Large Cabinet - 2 Amp PSU
21155	Integriti - Intelligent LAN Access Module - Large Cabinet - 3 Amp Smart PSU
21158	Integriti - Intelligent LAN Access Module - Large Cabinet - 8 Amp Smart PSU
21153	Integriti - Intelligent LAN Access Module - Mega Cabinet - 2 Amp PSU
21156	Integriti - Intelligent LAN Access Module - Mega Cabinet - 3 Amp Smart PSU
21157	Integriti - Intelligent LAN Access Module - Mega Cabinet - 8 Amp Smart PSU