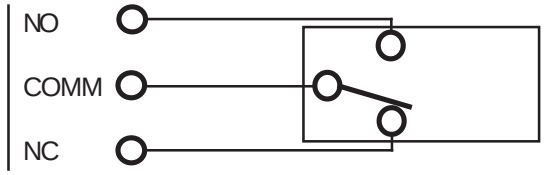
Relay Contacts Schematic diagram.

Max: 1.0 Amp @ 24VDC
0.5 Amp @ 50VAC



Commissioning

1. When wiring is complete and checked to be OK, connect power to the host Module.

2. The Auxiliaries can be tested via the Integriti System Designer Software by selecting "Auxiliaries", scrolling to the Module that you wish to test, and viewing the current Auxiliary states in the "Status" column which updates in real-time.
   Right Click on an Auxiliary to open the Popup where the Auxiliary can be controlled by selecting the ON or OFF action.

   Auxiliaries can also be tested by the Installer from an LCD Terminal via the "Test Auxiliaries" option. <MENU>, 4, 2.
   Use the DOWN ARROW to scroll to the desired Auxiliary, or use the ON key to enter the Auxiliary ID, then press OK to view the current state.
   The RIGHT ARROW key can be used to set an ON and/or OFF Time if required.

   To Test:
   -Determine the Auxiliary ID Numbers of the Auxiliaries on the Relay board under test.
   -Turn each Auxiliary On and Off in turn while monitoring the relevant LED on the Relay board to check that the Relay is functioning.

3. Program the new Auxiliary Outputs and assign them to the required functions.

While every effort has been made to ensure the accuracy of this manual, the manufacturer assumes no responsibility or liability for any errors or omissions.
Due to ongoing development, this manual is subject to change without notice.

Designed & manufactured in Australia.

 Part No: 636515

Integriti
UniBus 8 Relay Expander
P/N: 996515PCB&K

INSTALLATION MANUAL

Introduction

The UniBus 8 Relay Expander Board provides eight independent, high current relay outputs, offering a general purpose interface in applications such as warning devices (strobes, etc.), building automation, process control and access control.
The board is connected directly to the Host Module or another UniBus Board via the UniBus cable supplied.
IMPORTANT NOTE: Ensure that the current required by UniBus Boards does not cause the Host Module's ancillary current limit to be exceeded.

Specifications

Power Supply Input:	11V to 14V DC from Host Module
Current Consumption:	45mA PLUS 16mA per relay. i.e. Approximately 175mA when all Relays are On.
Contact Rating.	
Maximum switching current:	1.0 Amp @ 24VDC. or 0.5 Amp @ 50VAC
Physical dimensions:	Length: 105mm. 94mm with snap-off strip removed. Width: 94mm Depth: 28mm with UniBus cable connected.
Installation environment:	0º to 40º Celsius 15% to 85% Relative humidity (non-condensing)

NOTE: While the relays have higher AC Voltage contact ratings, the manufacturer does not recommend connection of AC voltages above 50VAC to the relay contact connections.

Parts List

- UniBus 8-Relay Expander PCB sub-assy.
- 4 x 6 way plug-on screw terminals.
- 1 x UniBus Cable. 270mm. (Other lengths available. See page 3 for details)
- 4 x Metal M3 Mounting Clips.
- 4 x M3 screws.
- Installation Guide. (This document)

Installing the UniBus 8-Relay Expander

1) Remove the power and disconnect the battery from the Host Module.

2) Choose a mounting location that will allow an Integriti 6-way UniBus cable to be connected between the Relay Expander and the Host Module or an existing UniBus Board, without strain, then install the appropriate Standoffs.
NOTE: The 8-Relay Expander Board may be installed by one of the following methods:
a) Mounted on the chassis using the 4 PCB mounting clips provided.
b) Mounted above an existing Integriti Size B Board using 35mm Hex Brass standoffs purchased seperately (Part Number 999009). Snap-off strip on PCB must be retained.

3) Secure the Board to the standoffs using the M3 screws provided.

4) Using an Integriti 6-way UniBus cable, connect P1 to the UniBus connector on the Host Module or the spare UniBus connector on an existing UniBus Board.
NOTES: 1) Only use Inner Range UniBus cables.
A 270mm UniBus cable is provided. Other lengths are listed on page 3.
2) A maximum of 4 UniBus 8 Relay Expanders can be connected.
3) A maximum of 6 UniBus Boards can be connected to a single Host Module.
4) All UniBus Boards must be in the same enclosure as the Host Module.
5) Total combined length of UniBus cables must not exceed 1620mm.

5) Detemine the Auxiliary numbers that will be assigned to this 8-Relay Expander board and adjust the settings of Switches 1 and 2 on DIPswitch SW1 accordingly.
See the table on page 3.

6) Re-apply power and re-connect the Battery to the host Module.

7) Wait about 45 seconds, then check the Status LEDs; L9, L10 and L11.

L9	OFF	OK
"UNIBUS"	Flashing	Getting Address
	ON	Address Clash or Too High. Choose another address.
L10	Flashing	OK
"SYS"		
L11	OFF	OK
"Fault"	ON	If On during normal operation, a fault has been detected. OK if On during bootup or firmware download.

UniBus 8 Relay Expander

NOTE: Links LK1 (Term) & LK2 and Headers P3 & P4 are NOT used in the field.

P1 & P2. UniBus Connections

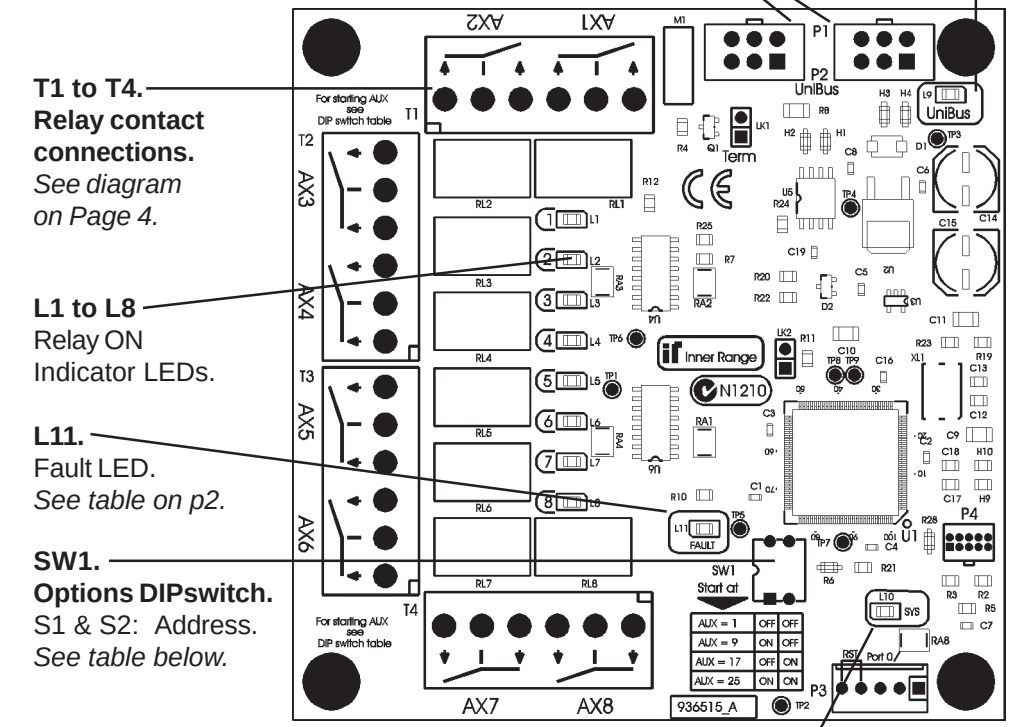
L9. UniBus Status *See table on p2.*

T1 to T4. **Relay contact connections.** *See diagram on Page 4.*

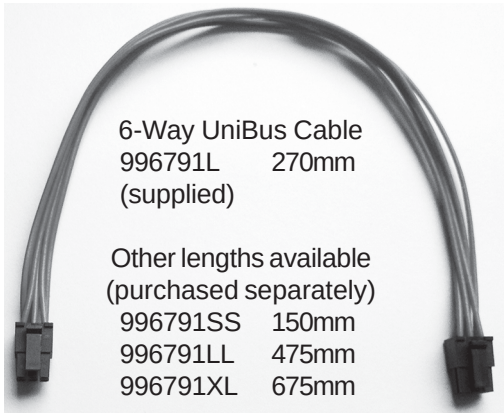
L1 to L8 Relay ON Indicator LEDs.

L11. Fault LED. *See table on p2.*

SW1. **Options DIPswitch.** S1 & S2: Address. *See table below.*



L10. System Status LED. *See table on p2.*



Assign Auxiliaries			DIPswitch 1	DIPswitch 2
1	to	8	OFF	OFF
9	to	16	ON	OFF
17	to	24	OFF	ON
25	to	32	ON	ON