Comms Task Formats supported by each UART Serial Port.

Port 1 (Connector P3). Modem:
All formats listed for Port 2 below plus E Modem.
Port 2 (Connector P4). Comm:

Integriti	Monitor	GSM	Automation
EMS	Securitel	Intercom	BMS

Check “Communications Programming” in the Integriti Programming Reference manual for latest details of Comms Task formats.

Pre-assembled Cables for UART Serial Ports.

993009: Computer interface cable. (DB9)
993025: Computer interface cable. (DB25)
993026: Serial Printer interface cable. (DB25)
993027: Modem interface cable. (DB25)
993035: Securitel interface cable. (Flying leads)
995009: Internal PC Interface cable kit. Installed inside the cabinet to the DB9 knockout, to provide an external DB9 serial connection.

Specifications

Power Supply Input:	11V to 14V DC from Host Module
Current Consumption:	40mA plus 5mA per active Port.
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)

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: 636520

Integriti UniBus 2 Port UART P/N: 996520PCB&K

INSTALLATION MANUAL

Introduction

The UniBus 2 Port UART provides 2 high speed, software configurable, Serial Ports allowing connection of peripheral serial devices. Up to 4 UniBus UART Boards may be connected to an Integriti Controller.

DIPswitch options allow each Port to be configured for RS-232 or RS-485 operation. Specific RS-232 cables are available for the connection of a Computer, Modem or other serial device including the Inner Range GSM modem or Multipath IP STU.

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.

SERIAL PORT APPLICATIONS.

Port 1 (Modem):	Supports any Comms Task format that requires UART Serial Port communications, including all “Modem” Comms Task formats.
Port 2 (Comm):	Supports the Comms Task formats that utilize TXD/RXD and CTS/RTS for UART Serial Port communications. “E Modem” and any formats that require CD, DSR, DTR or RI signals are <u>not</u> suported. Use Port 1 for these formats.

See Page 4 for full details of Comms Task Formats supported by each Port.

<u>Parts List</u>

- UniBus 2 Port UART PCB sub-assy.
- 2 x 4 way plug-on screw terminals.
- 1 x UniBus Cable. 270mm.
- 4 x Metal M3 Mounting Clips.
- 4 x M3 screws.
- Installation Guide. (This document)

<u>UniBus Cable options</u>

Supplied:
996791L 270mm
Purchased separately:
996791SS 150mm
996791LL 475mm
996791XL 675mm

Installing the UniBus 2 Port UART

1a) Determine which UniBus UART Ports this board will provide, then adjust the address settings of Switches 1 and 2 on DIPswitch SW1 accordingly. *See the table on page 3.*
1b) If either of the Ports are to provide an RS-485 connection, set Switch 3 (Port 1) and/ or 4 (Port 2) on DIPswitch SW1 to the ON position. *See the table on page 3.*

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

3) Choose a mounting location that will allow an Integriti 6-way UniBus cable to be connected between the 2 Port UART and the Host Module or an existing UniBus Board, without strain, then install the appropriate Standoffs.
NOTE: The 2 Port UART 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 separately (Part Number 999009). Snap-off strip on PCB must be retained.

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

5) 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 1.
2) A maximum of 4 UniBus 2 Port UART Boards can be connected.
2) A maximum of 6 UniBus Boards can be connected to a single Host Module.
3) All UniBus Boards must be in the same enclosure as the Host Module.
4) Total combined length of UniBus cables must not exceed 1620mm.

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

7) Wait about 45 seconds, then check the Status LEDs; L12, L2 and L4.

L12	OFF	OK
"UNIBUS"	Flashing	Getting Address
	ON	Address Clash or Too High. Choose another address.
L2	OFF	OK
"Fault"	ON	If On during normal operation, a fault has been detected. OK if On during bootup or firmware download.
L4	Flashing	OK
"SYS"		

UniBus 2 Port UART

NOTE: Links LK1 (Term), LK2, LK3 & LK4 and Headers P5 & P6 are not used in the field.

P1 & P2. UniBus Connections

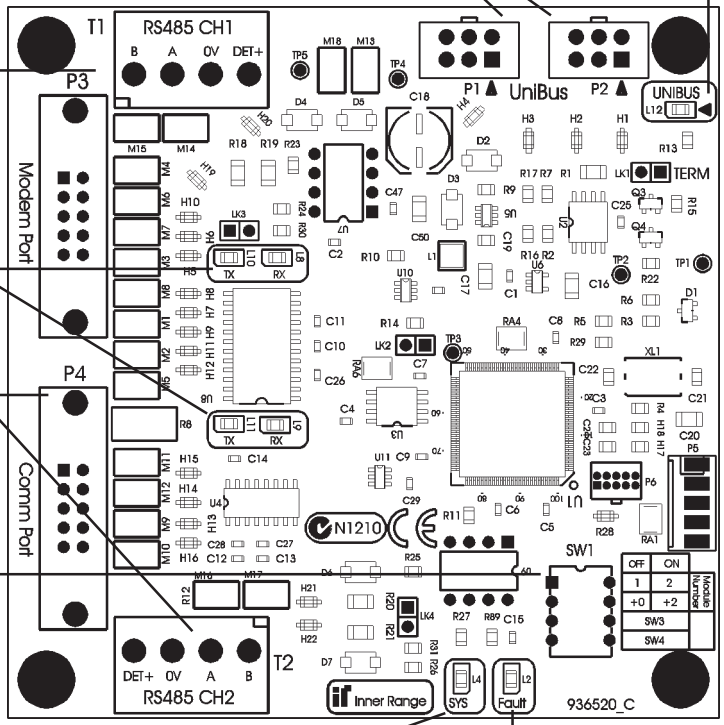
L12. UniBus Status *See table on p2.*

T1 & P3. Channel 1 Modem/RS485 Ports.

L8 to L11 UART Port Transmit / Receive LEDs.

T2 & P4. Channel 2 Comm/RS485 Ports.

SW1. Options DIPswitch. S1 & S2: Address. S3 & S4: Protocol. *See tables below.*



L4. System Status. *See table on p2.*

L2. Fault *See table on p2.*

UniBus UART Address.	DIPswitch 1	DIPswitch 2
1	OFF	OFF
2	ON	OFF
3	OFF	ON
4	ON	ON

DIPSwitch	OFF	ON
Switch 3. CH1	RS232 (Modem)	RS485
Switch 4. CH2	RS232 (Comm)	RS485