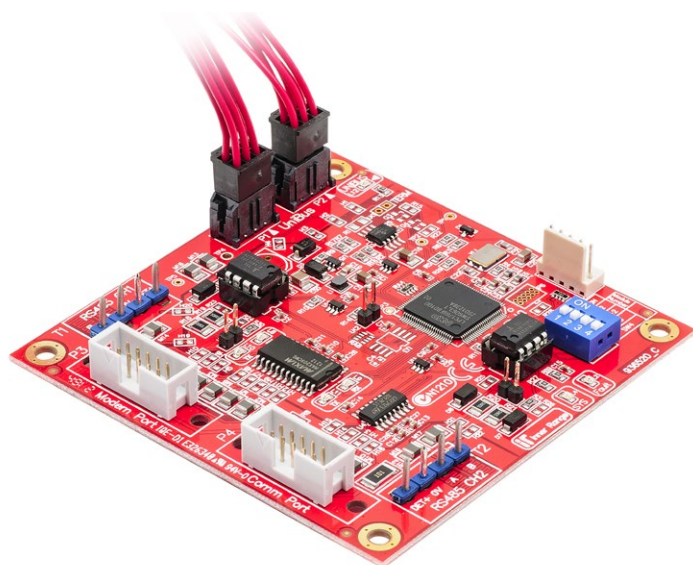# integriti

Integriti UniBus 2 Port RS-232/RS-485 UART

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.

DIP switch options allow each Port to be configured for RS-232 or RS-485 operation.

The UniBus 8 Relay Expander is designed for installation within the same enclosure as its UniBus host module and the board is connected directly to the host module or another UniBus Board via the UniBus cable supplied.

Specific RS-232 cables are available separately for the connection of a Computer, Modem or other serial devices including the Inner Range GSM modem or Multipath IP STU.

Host Module Compatibility

The UniBus 2 Port UART is compatible with the following UniBus Host Modules:

Integriti ISC Controller (Part. 996001) Connect up to 4

Features

- 2 Software configurable UART Ports
    - Channel 1 - RS-232 Modem / RS-485 Port
    - Channel 2 - RS-232 Comm / RS-485 Port
- DIP switch addressable module number 1, 2, 3 or 4
- DIP switch selectable CH1/CH2 mode, RS-232 or RS-485
- LED indication of CH1 & CH2 RX & TX activity
- LED UniBus status indicator
- 2 LED system status / fault indicators
- UniBus loop-through connectors
- Over-The-Wire firmware upgradable
- Integriti "C" size footprint 94 x 94mm
- Can be installed above other "C" size PCB's**
- A Snap off strip is included to allow installation above Integriti "B" size PCB's**

*** 35mm standoff kit required - Part Number 999009*

UniBus In-Cabinet Expansion

UniBus is an innovative in-cabinet bus which allows the connection of Expansion modules, Communications modules and Door & Reader Modules 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
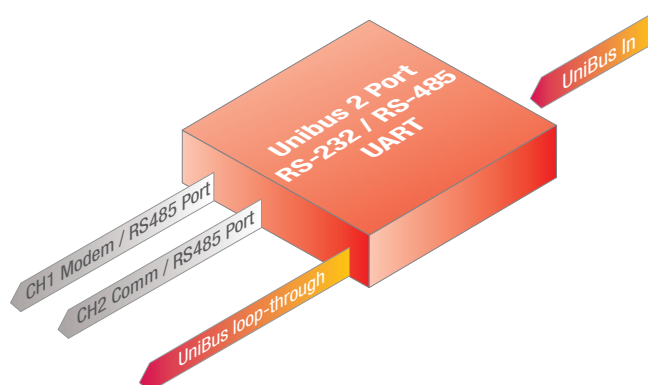
Up to six UniBus modules can be daisy chained to an ISC controller
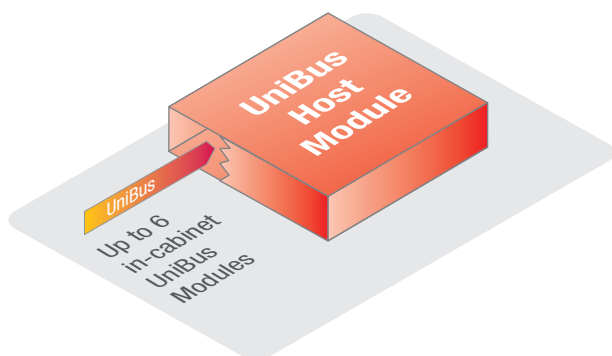
UniBus Modules Available

- 8 Auxiliary Relay Card
- 8 Zone Input Expander Card
- 4 Zone Industrial Analogue input card*

*UniBus device planned for future release

Connectivity

inner range

UniBus Installation

UniBus Devices are designed for installation within the same enclosure as the UniBus host module. A UniBus host can interface a maximum of six UniBus devices in any combination, provided they are all within the intended functionality of the host module

Specifications

Physical

PCB size code:	Integriti "C" size
PCB size:	94(L) x 94(W)(mm)
PCB size including snap off strip:	105(L) x 94(W)(mm)
Height:	15(D)(mm) (28mm with UniBus cable connected)
Installation environment:	0ºC - 40ºC @15% - 85% Relative humidity (non-condensing)

Electrical

Power Supply Input:	11V to 14V DC via host module
Static Current Consumption:	40mA PLUS 5mA per active port

Connections

Port 1:	CH1 Modem Port or RS-485
Port 2:	CH2 Comm Port or RS-485
UniBus loop-through port:	1
Connection to Host Module:	Via 270mm UniBus patch lead (supplied)

Communications Formats

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 not supported. Use Port 1 for these formats.

Power Considerations

The UniBus host module supplies DET+ current and static device current to all connected UniBus devices.

Total current consumption is therefore the sum of all:
- Static Current of all connected UniBus devices
- Static Current of host module
- Host module battery charging current
- Ancillary devices connected to all DET+ connections
- Ancillary devices connected to host module's RS485 LAN+

Compliance

Electrical	
Environmental	RoHS

Ordering Options

Integriti UniBus 2 Port RS-232/RS-485 UART PCB & Accessories (Includes 270mm UniBus patch cable)

Part 996520PCB&K

Spare UniBus patch cables

Part 996791L UniBus Patch Cable 270mm six way

Part 996791S UniBus Patch Cable 220mm six way

PRO636520 Integriti UniBus 2 Port UART Data Sheet April 2013

The specifications and descriptions of products and services contained in this datasheet were correct at the time of publishing. Inner Range reserves the right to change specifications or withdraw products without notice

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