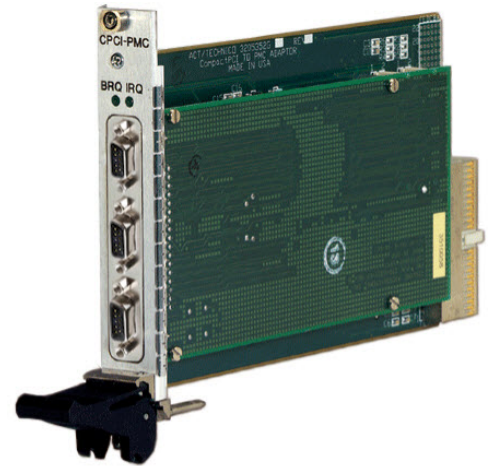


GX3903 SERIES



3 PORT RS-232/RS-422/RS-485 INTERFACE CPCI CARDS

- (3) 16550-based asynchronous communication ports
- Each port can be configured for RS-232, RS-422 or RS-485 operation
- 9-pin micro-D subminiature connectors for each port
- Supports data rates up to 115 K baud



DESCRIPTION

The GX3903 is a 3-port, cPCI asynchronous communications interface board supporting RS-232, RS-422, and RS-485 interfaces. Each port is configured at the time of order for RS-232, RS-422 or RS-485 signaling. The default configuration is RS-232. For RS-232 mode, each port supports RTS, CTS, TXD, RXD, DCD, DRC, DSR, and RI signaling. The RS-422 mode supports TXD, RXD, CTS, and RTS with each line operating differentially with a uni-directional drive.

In RS-485 mode, the card supports both 2-wire and 4-wire configurations. In 2-wire mode, a single differential RS-422 pair operates in half-duplex mode. For 4-wire mode, the TXD is driven on an additional RS422 uni-directional output. Control of the Tx/Rx direction is performed via the RTS control signal from the 16550 UART.

FEATURES

The differential RS-422 / RS-485 ports are terminated with 150 ohm parallel terminations. Alternate terminations can be specified at time of order. Interfacing to the 3 ports is provided via (3) front panel mounted Micro D9 connectors.

Support for each port is provided by a 16550 UART which operates at data rates up to 115 K baud. Mapping of interrupts, INTA/INTB/INTC/INTD from the PCI bus to each UART is done via switches located on the board, supporting both shared and dedicated interrupt requests.

SOFTWARE

Standard Windows COM drivers can be used with the GX3903.

APPLICATIONS

- Automatic Test Equipment (ATE)
- Control of computer peripherals
- Computer to computer interfacing
- Control of industrial equipment

GX3903 SERIES



SPECIFICATIONS

ASYNCHRONOUS COMMUNICATION CHANNELS	
Supported Protocols	RS232, RS422, RS485 Factory configurable. Default configuration is RS232.
Number of Ports	3
Connector	9-pin, Micro D-subminiature, male
Supported RS232 Signals	RTS, CTS, TXD, RXD, DCD, DTR, DSR, RI
Supported RS422 Signals	TXD, RXD, CTS, RTS; differential levels, unidirectional drive
Supported RS485 Signals	2-wire mode: TXD / RXD (half duplex), CTS, RTS 4-wire mode: TXD, TXD / RXD (half duplex), CTS, RTS Differential levels
UART	16550, one per port. Configurable interrupts, shared or dedicated. Configurable via on-board DIP switches
Maximum Baud Rate	115 K
RS433 / RS485 Termination	150 Ω , optional
POWER	
3.3 VDC	TBD
5 VDC	TBD
ENVIRONMENTAL	
Operating Temperature	+5 °C to +50 °C
Storage Temperature	-20 °C to +60 °C
Humidity (Non-Condensing)	5% to 90% @ +40 °C
Size	3U cPCI
Weight	200 g

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX3903	3 Port RS232/422/485, DB-9 I/F
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