

GX3904

4 PORT RS-232 & 4 PORT RS-422 INTERFACE CPCI CARD

- 8 16550-based asynchronous communication ports
- 4 ports configured for RS-232
- 4 ports configured for RS-422
- All 8 ports accessible via a front panel 68-pin SCSI connector
- Supports data rates up to 115 K baud



DESCRIPTION

The GX3904 is an 8-port, cPCI asynchronous communications interface board supporting 4 RS-232 and 4 RS-422 signal levels. The four RS-232 ports offer a full set of data and modem control lines configured for DTE operation. The four RS-422 ports offer differential signaling and support DTE operation. Each RS-422 differential pair is terminated by a 150 parallel resistor. An optional transition cable is available to convert the front panel SCSI connector to 8 DB-9, D-sub connectors.

FEATURES

Support for each port is provided by a 16550 UART which operates at data rates up to 115 K baud. Mapping of PCI interrupts to each of the 8 interrupts associated with each UART is done via on-board programmable routing logic, allowing any UART interrupt to be routed to any of the PCI INTx request lines. The default routing after reset is for all interrupts to be routed to the INTA line.

SOFTWARE

Standard Windows COM drivers can be used with the GX3904.

APPLICATIONS

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

GX3904

SPECIFICATIONS

ASYNCHRONOUS COMMUNICATION CHANNELS	
Supported Protocols	RS232 & RS422
Number of Ports	(4) RS232 (4) RS422
Connector	68 pin SCSI
Supported RS232 Signals	RTS, CTS, TXD, RXD, DCD, DTR, DSR, RI
Supported RS422 Signals	RTS+, RTS-, CTS+, CTS-, TXD+, TXD-, RXD+, RXD-; all signals are differential pairs
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. Interrupts from each UART can be mapped to any of the four INTA – INTD PCI interrupt lines.
Maximum Baud Rate	115 K
RS433 / RS485 Termination	150 for each differential pair
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

GX3904	4 Port RS232 / 4 port RS422, Comm I/F
ACCESSORY	
GX39001	SCSI to DB9, 3 Foot Cable Assembly for GX3904