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VERSATILE INTERFACE

Octal Serial Channel 3U CompactPCI®

The PCISIO-4/8 is a four/eight-channel serial interface board for CompactPCI systems. This module is fully compatible with the 16Cx5x Universal Asynchronous Receiver/Transmitter (UART), allowing data transfers at speeds up to 115 kbauds (1 Mbauds with 550 compatibility mode). Each channel can be individually configured for RS-232 or RS-422 operation by means of user-selectable jumpers.

The PCISIO-4/8 is a 32-bit CompactPCI peripheral adapter in a 3U, single-slot form factor. Featuring one (PCISIO-4) or two (PCISIO-8) quad 16C954 UARTs, each serial channel contains a 128-byte Transmit/Receive FIFO buffer and a programmable baud rate generator operating from 50 to 115 kbauds. In addition, each channel is individually programmable for 5, 6, 7, or 8-bit character transmission, even, odd, or no parity bit generation and 1, 1-1/2, or 2 stop bits generation. The board also offers a 9-bit data framing for industrial applications.

The PCISIO-4/8 front panel is 4TE in width and is fully compliant with the IEEE 1101.10 specifications. Direct interface to each port is achieved by using a high density, 62-pin female D-sub front panel connector. An optional breakout cable to adapt to standard DB25 connectors is available. The front panel interface includes the signals TD, RD, RTS, CTS, DSR, DTR and DCD for each RS-232 port, and TD, RD for each RS-422 port. The RI signal for the RS-232 ports and the RTS, CTS signals for the RS-422 ports are available on one serial line per quad UART. The PCISIO-4/8 is fully compliant with the EMC requirements.

Optional rear I/O connection can be implemented through the P2 connector of the CompactPCI backplane so that the serial cables can be connected to the back of the chassis by using a rear plug-in adapter module. This feature allows the PCISIO-4/8 to be removed and reinserted without cable disassembly, meeting the requirements of telecommunication systems and other high availability applications.

Software drivers are provided by GESPAC for use with Windows NT™. VxWorks®, QNX® and Linux.

Technical features

Serial Ports:

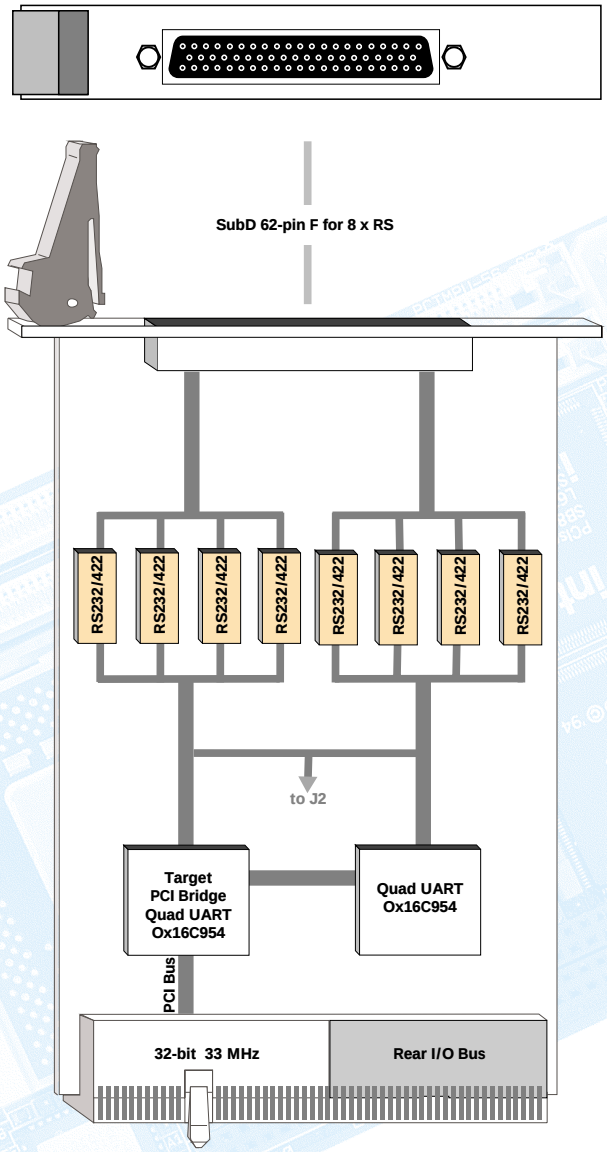
- Four/Eight independent serial channels
- EIA Standard RS-232 or RS-422 modes supported
- Fully compatible with UARTs 16Cx5x
- Programmable transfer rate up to 115 kbaud
- Shared interrupts
- 128-byte transmit and receive FIFOs for each channel
- Short circuit protection for both the RS-232 and RS-422
- Windows NT™, VxWorks®, QNX® and Linux supported

CompactPCI Interface:

- 32-bit, 33 MHz single-slot CompactPCI interface
- Automatic addressing (Plug and Play)
- Fully compliant with CompactPCI bus specifications PICMG 2.0 R3.0
- 3U format (100 x 160 mm), 4TE Front Panel, 5V signalling
- Power consumption: +5V/0.5A

Optional Features:

- Rear I/O connection



Order Information

PCISIO-4	Four channel CompactPCI Serial Interface board (RS-232/422)
PCISIO-8	Eight channel CompactPCI Serial Interface board (RS-232/422)
	RP-Suffix for Rear I/O on J2
RPISIO-8	Rear Plug-in Module for the PCISIO-8RP Board
PCISIO25-4	4-port serial breakout cable. Adapts the 62-pin front panel connector into four ports, 25-pin D-shell female connectors. L: 30 cm.
PCISIO25-8	8-port serial breakout cable. Adapts the 62-pin front panel connector into eight ports, 25-pin D-shell female connectors. L: 30 cm.

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