Xtreme/104 Opto

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Features

- Two or four asynchronous serial ports in various electrical interface configurations (jumper selectable)
- 3kV optical isolation
- Supports full duplex (4 wire), half duplex (2 wire) with auto TxD echo cancellation and multi-drop (4 wire) communication modes in RS-422/485
- Maximum data rates of 460.8 Kbps
- Jumper selectable 120 Ohm termination resistor included on each RS-422/485 transmitter and receiver
- Each port is configurable for baud rate, parity, data and stop bits.
- Industrial temperature models available (-40˚C to 85˚C)

Specifications

Number of Ports	2 or 4 ports
Electrical Interface	RS-232 or RS-422/485 (electrical interface is jumper selectable)
Connectors	10-pin header connectors custom connectors and optional DB-9 male cables available)
Control Signals	RS-232: TxD, RxD, RTS, CTS RS-422/485: TxD+/-, RxD+/-, CTS+/-, RTS+/-
Baud Rate	RS-232: 50 bps to 230.4 Kbps RS-422/485: 50 bps to 460.8 Kbps *(Custom baud rates available)*
Interrupts	Jumper selectable for IRQs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15
I/O Addresses	Eight pre-defined sets of I/O addresses are jumper selectable
UART Type	16C2850 dual UARTs with 128 byte transmit and receive FIFO buffers
Dimensions	*Width:* 9.60 cm/3.77" *Length:* 10.41 cm/4.09" (includes 10 pin headers) *Height:* 1.12 cm/0.44"
Environmental	Operating Temperature: 0º C to 70º C (32º F to 158º F) Industrial Temperature models: -40º C to 85º C (-40º F to 185º F) Storage Temperature: -40º C to 150º C (-40º F to 302º F) Humidity: 95% non-condensing
Bus	ISA bus compatible with 16 bit PC/104 connector
Software Compatibility	Windows 95/98/Me/CE/CE.NET/NT/2000/XP, Linux, QNX, SCO Unix, VxWorks, DOS and Solaris
Optical Isolation	Each port is isolated up to 3 kV AC peak, 3.0 kV DC and 2.1 kV AC RMS on all signals
System Requirements	One available PC/104 module stack connector and hardware interrupt *(if required)*
Power Requirements	+5 V DC @ 260mA (typ) +/-5%

Compact yet powerful, the Xtreme/104 Opto performs where others fail. Durable and stackable, Xtreme/104 Opto's small form factor makes it the ideal serial communications link in today's demanding embedded systems.

Xtreme/104 Opto offers 3 kV optical isolation on all signals and ports to ensure smooth, error-free transmission of data even in the noisiest environments.

With the added feature of industrial temperature range operation, Xtreme/104 Opto is well suited to any embedded computer system that is exposed to harsh conditions.

Based on the 16C2850 UART with 128 byte transmit and receive FIFO buffers, Xtreme/104 Opto provides rapid data communications for your military, aerospace, medical, transportation and industrial automation applications.

All Xtreme/104 Opto cards include lifetime warranty and free technical support.

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