

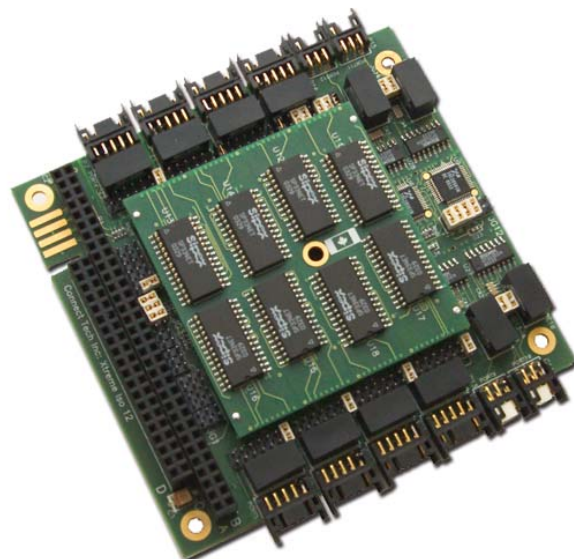
Xtreme/104 Isolated

Serial Communications



Xtreme/104 Isolated

Features

- 12 asynchronous I/O ports, including eight jumper selectable RS-232/422/485 ports and four RS-232 ports
- Provides electrical isolation on every port using Analog Device iCoupler® technology
- Supports full duplex (4 wire) with RTS/CTS flow control, half duplex (2 wire) with auto TxD echo cancellation and multi-drop (4 wire) modes in RS-422/485
- Supports data speeds of 115.2 Kbps (RS-232) and 460.8 Kbps (RS-422/485) - *Custom baud rates available
- Jumper selectable RS-485 bias and termination available
- Operating temperature range of -40°C to 85°C



Specifications

| | |
|-------------------------------|--|
| Number of Ports | 12 ports |
| Electrical Interface | Four RS-232 and eight jumper selectable RS-232/422/485 |
| Connectors | 10-pin connectors for RS-232/422/485 ports 6-pin connectors for RS-232 ports |
| Control Signals | RS-232: TxD, RxD, RTS, CTS, ISOGND RS-422/485: TxD+/-, RxD+/-, CTS+/-, RTS+/-, ISOGND |
| Baud Rate | RS-232: 50 bps to 115.2 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 | Main Board: 9.0 cm/3.55" by 9.6 cm/3.775" With Connectors: 10.1 cm/3.99" by 9.6 cm/ 3.775" Daughter Board: 5.8 cm/2.27" by 5.5 cm/2.175" (Height fully compliant with PC/104 specifications) |
| Environmental | Operating Temperature: -40° C to 85° C (-40° F to 185° F) Humidity: 95% non-condensing |
| Bus | ISA bus compatible with 16 bit PC/104 connector |
| Software Compatibility | Windows 98/Me/CE/CE.NET/NT/2000/XP/XPe,   Linux, QNX, SCO Unix and Solaris |
| Electrical Isolation | Each port is isolated up to 1kV AC peak to peak |
| System Requirements | One available PC/104 module stack connector and hardware interrupt (if required) |
| Power Requirements | +5 V DC @ 500mA (typ), 1A (max) |

This high density adapter offers 12 asynchronous serial ports while maintaining full compliance with PC/104 form factor standards. It features eight jumper selectable RS-232/422/485 ports with support for all three RS-485 modes, and includes four dedicated RS-232 ports.

To ensure maximum performance an industrial temperature range and 1kV AC peak to peak electrical isolation has been incorporated on each port of the design. iCoupler® isolation technology enables high data rates, high port density and is low on power consumption, making it the superior choice for electrical isolation.

Xtreme/104 Isolated is an industrial strength solution ideal for control and automation applications requiring communications over short or long distances using PC/104 bus compatible computers.

All Xtreme/104 Isolated products include a Lifetime Warranty and free technical support

**Custom baud rate models may not support standard baud rates*



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