

Xtreme/104

Applications

Xtreme/104 adapters offer four and eight asynchronous RS-232 and/or RS-485/422 serial ports for data collection devices, barcode readers, time clocks, scales and other industrial automation equipment. Xtreme/104 adapters are ideal industrial strength solutions for control and automation applications requiring single node or multi-drop communications over short or long distances using PC/104 bus compatible computers.

Features

- Four and eight asynchronous RS-232, and/or RS-485/422 serial ports - each port's electrical interface is jumper selectable (Xtreme/104 models)
- Four and eight asynchronous RS-232 (Xtreme/104 232 models)
- Supports data communications speeds up to 230.4 KBPS (RS-232) or 460.8 KBPS (RS-485)
- 16C654 UARTs control each port providing 64 bytes of Tx/D/RxD FIFO buffers
- Supports two RS485 modes:
 - Full Duplex
 - Half Duplex with auto Tx/D echo cancellation
- Each RS-485 transmitter and receiver has a jumper selectable 120 Ohm termination resistor
- Eight pre-defined sets of I/O addresses are jumper selectable.
- IRQ lines are jumper selectable. A choice of IRQ lines 3, 4, 5, 6, 7, 9/2, 10, 11, 12, 14, 15 is available and each Xtreme/104 board can be set to run on one or two interrupts.
- Independent port configuration with baud rates from 50 BPS to 230.4 KBPS (Xtreme/104 232 models); 50 BPS to 460.8 KBPS (Xtreme/104 models RS-485); data bits of 5, 6, 7 or 8; stop bits of 1, 1.5, or 2, and odd, even, or stick parity
- Optional DB9 male cables available
- Includes SeePORT, a full featured Windows 95/98 software data analyzer
- Easy installation comes with comprehensive manual and driver software

Benefits

High Speed, High Performance Communications

Achieve rapid data transfer rates up to 460.8 KBPS. State of the art 16C654 quad UARTs with 64 bytes of transmit and receive FIFO buffers offload interrupt handling and buffering from the main CPU, thus improving overall system performance.

Hardware Flexibility

Xtreme/104 offers hardware flexibility and adaptability for your application. You can configure each port's electrical interface, baud rate, parity, data and stop bits independently and various connector options are offered to suit your needs. Xtreme/104 supports two RS-485 modes: Full Duplex; and Half Duplex with auto Tx/D echo cancellation.

Software Compatibility

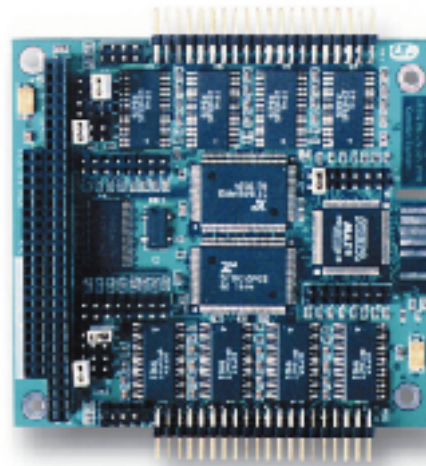
Because of its compatibility with standard PC serial ports, the Xtreme/104 boards support all the most popular operating systems and communication software. For applications that do not support multi-port adapters, the Xtreme/104 board comes with a DOS and a Windows 95/98 driver.

Easy to Use

The Xtreme/104 comes ready for simple installation. Included are board, DOS and Windows 95/98 driver software and a comprehensive manual.

Diagnostic Tools

Xtreme/104 adapters include the Windows 95/98 software data line analyzer, SeePORT to help you diagnose communication problems and therefore minimize downtime.



Warranty and Service

Connect Tech, an ISO 9001 registered company, has provided high performance communication solutions since 1985, building and testing products to meet high standards of quality and reliability. Xtreme/104 adapters come with a one year warranty.

Specifications

	Xtreme-4/104 Xtreme-4/104 232	Xtreme-8/104 Xtreme-8/104 232
Number of ports	4	8
Electrical Interface	<i>Xtreme/104 models:</i> RS-232 and/or RS-485/422 each port is jumper selectable <i>Xtreme/104 232 models:</i> RS-232 only	
Connectors	40 pin header connectors (optional DB9 male cables available)	
Control Signals	<i>RS-232:</i> DTR, DSR, RTS, CTS, RI, Tx/D, RxD, DCD <i>RS-485:</i> Tx/D \pm , RxD \pm , CTS \pm , RTS \pm	
Baud Rates	<i>RS-232:</i> 50 BPS - 230.4 KBPS <i>RS-485:</i> 50 BPS - 460.8 KBPS	
I/O Addresses	eight pre-defined sets of I/O addresses are jumper selectable - requires one set of eight addresses	
Interrupts	jumper selectable for IRQs 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15	
UART Type	16C654 quad UARTs c/w 64 byte Tx/D/RxD FIFO buffers	
Dimensions	Height: 9.60 cm Length: 10.41 cm Width: 1.12 cm	
Power Requirements	+5 VDC @ 100mA (max) 5%	
Environmental Requirements	Temperature: (operating) 0 to 70° C (storage): -40 to 150° C Humidity: 95% non-condensing	
Bus	ISA bus compatible 16 bit PC/ 104 connector.	
Software Compatibility	DOS, Linux, QNX, and Windows 95/98/NT/2000 (contact Connect Tech for most current list)	
System Requirements	one available PC/104 module stack connector and hardware interrupt (if required)	
Part Numbers	Model	

Please contact Connect Tech for more information about Xtreme/104 adapters

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