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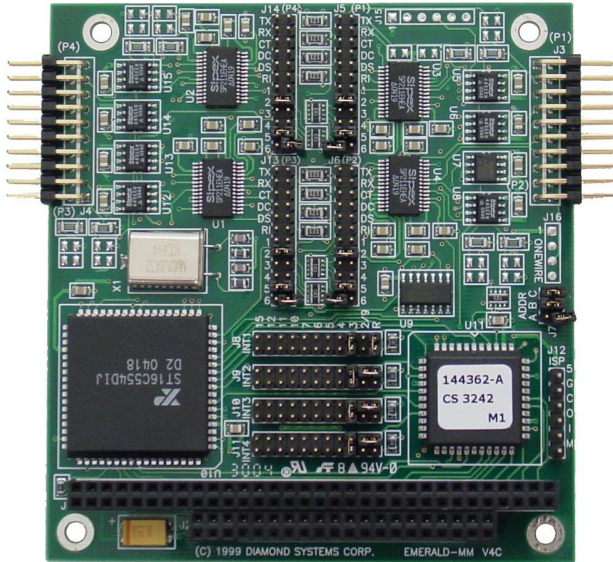
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## 4-Port RS-232/422/485 PC/104™ Module



### Key Features

- ◆ 4 serial ports, RS-232/422/485 protocols
- ◆ Full handshake RS-232
- ◆ Jumper-selectable protocols, addresses, and interrupts
- ◆ 16C554 UARTs with 16-byte FIFOs
- ◆ 115.2K maximum baud rate
- ◆ Built-in interrupt sharing

### SPECIFICATIONS

<b>Serial ports</b>	Four
<b>Protocols</b>	RS-232/422/485 supported, model dependent
<b>Max baud rate</b>	115Kbps
<b>Communications</b>	Five, six, seven or eight data bits Even, odd, or no parity
<b>Base UART</b>	16C554
<b>FIFO</b>	16 bytes
<b>Protocol configuration</b>	Jumper
<b>Address / interrupt config.</b>	Jumper
<b>Short protection</b>	Continuous, all outputs
<b>Bus interface</b>	PC/104 (ISA)
<b>Power</b>	+5VDC ±10% @80mA
<b>Operating temp.</b>	-40°C to +85°C (-40°F to +185°F)
<b>Weight</b>	2.5oz (71g)

### ORDERING INFORMATION

<b>EMM-XT</b>	Ports 1-2 configurable RS-232/422/485 Ports 3-4 fixed RS-232
<b>EMM-4M-XT</b>	Ports 1-4 configurable RS-232/422/485
<b>EMM-4232-XT</b>	Ports 1-4 fixed RS-232
<b>C-DB9M-2</b>	Dual serial port cable

### Product Overview

This top-selling serial port module has four independent PC-standard asynchronous serial ports based on the 16C554 quad UART chip.

The board is available in 3 models with different combinations of protocols (see ordering information below). Each configurable port's protocol can be selected independently of any other port.

Protocol, address, and IRQ level are independently selected for each port. All configurations are made with jumpers for quick visual identification of the board's settings. Select from 8 I/O address combinations and 10 IRQ levels. All transceivers are already on the board, so no chips or modules need to be installed for configuration.

In RS-232 mode, each port has the full set of 8 signals plus ground. Termination resistors of 120ohms are provided for RS-422/485 protocols and are jumper-selectable. Interrupt sharing is supported with a built-in interrupt status register.

The board has 2 20-pin I/O headers, with 2 serial ports on each header. Emerald-MM requires only +5V supply and operates over the industrial temperature range of -40°C to +85°C.



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