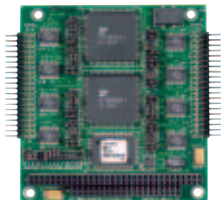


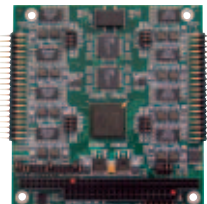
EMERALD-MM FAMILY

8-PORT SERIAL COMMUNICATIONS



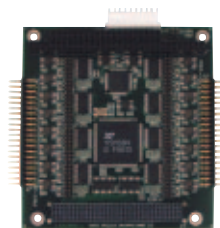
EMM-8M

- 8 RS-232/422/485 serial ports
- Full handshake RS-232
- Jumper selectable protocols, addresses and interrupts
- 16C654 UARTs with 64-byte FIFOs
- 460.8Kbps max baud rate
- 8 programmable digital I/O lines
- Interrupt sharing



EMM-8P

- 8 RS-232/422/485 serial ports
- Full handshake RS-232
- Software selectable protocols, jumper selectable addresses and interrupts
- 16C654 UARTs with 64-byte FIFOs
- 460.8Kbps max baud rate
- 8 programmable digital I/O lines
- Interrupt sharing



EMM-8PLUS

- 8 RS-232/422/485 serial ports
- Full handshake RS-232
- PC/104-Plus (PCI Plug and Play) interface
- Jumper selectable protocols
- Max baud rate 1.832Mbps
- 8 programmable digital I/O lines

The Emerald family of serial communications PC/104 and PC/104-Plus modules provides both low cost and high performance alternatives to meet the varying communications needs of PC/104 expandable systems. The EMM-8M / EMM-8P / EMM-8Plus all offer eight RS-232/422/485 serial ports with performance ranging from 460.8K bps (EMM-8M or EMM-8P on PC/104) to 1.832Mbps (EMM-8Plus on PC/104-Plus). All three utilize 16C550 compatible UARTs with 64-byte FIFOs and all offer 8 programmable digital I/O lines.

The three boards operate from -40 to +85°C, differing in their configuration mechanisms. The EMM-8P offers software configurable protocol selection while the EMM-8M uses jumpers to configure the protocols. Both boards use jumpers to select the base address and interrupt configuration. Both support interrupt sharing. The EMM-8Plus uses jumpers to select the protocols and the PCI bus Plug and Play logic to configure address and interrupt usage.

SPECIFICATIONS

Feature	EMM-8M	EMM-8P	EMM-8PLUS
# Ports	8	8	8
Protocols Supported	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485	RS-232, RS-422, RS-485
Max Baud Rate	460.8Kbps	460.8Kbps	1.832Mbps
Communications	5,6,7 or 8 data bits; Even, odd or no parity	5,6,7 or 8 data bits; Even, odd or no parity	5,6,7 or 8 data bits; Even, odd or no parity
Base UART	16C654	16C654	17d158
FIFO	64 bytes	64 bytes	64 bytes
Protocol Configuration	Jumper	Software	Jumper
Address / Interrupt Configuration	Jumper	Jumper	Plug and Play
Digital I/O	8 individually prog.	8 individually prog.	8 individually prog.
Short Protection	Continuous, all outputs	Continuous, all outputs	Continuous, all outputs
Bus Interface	PC/104 (ISA)	PC/104 (ISA)	PC/104-PLUS (ISA)
Input Voltage	+5VDC±10%	+5VDC±10%	+5VDC±10%
Current Consumption	80mA	160mA	80mA
Operating Temp	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Weight	2.6oz / 74g	2.1oz / 71g	2.6oz/74g

ORDERING INFORMATION

Part No.	Description
EMM-8M-XT	8 jumper configurable RS-232/422/485 port PC/104 module
EMM-8P-XT	8 software configurable RS-232/422/485 port PC/104 module
EMM-8Plus-XT	8 jumper configurable RS-232/422/485 port PC/104-Plus module