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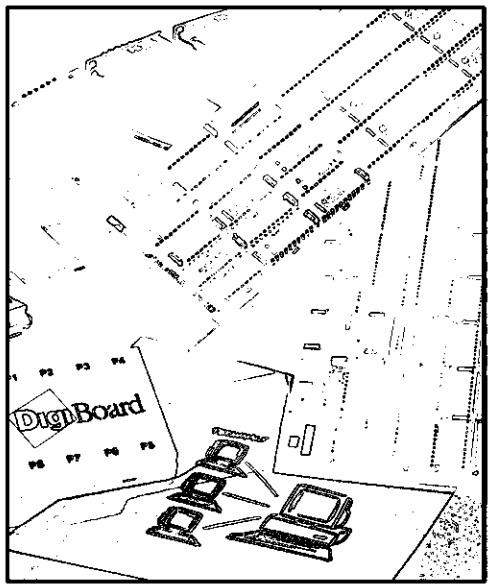
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Find the *DigiBoard PC/4* at our website: *Click HERE*

DigiBoard PC/X and MC/X

Non-Intelligent Serial Connectivity for Small Systems



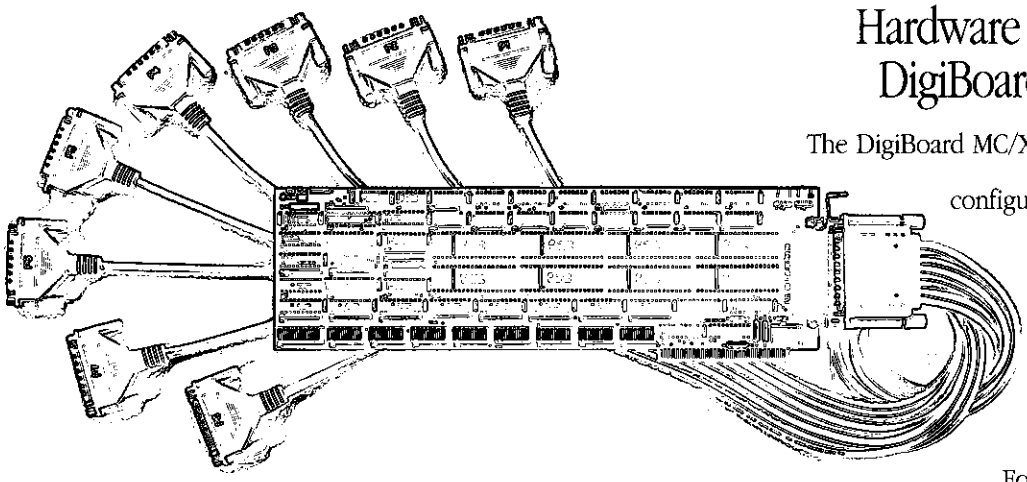
The DigiBoard® PC/X™ and DigiBoard MC/X™ are non-intelligent multichannel serial communication boards available in four, eight and 16-port configurations. The PC/X is compatible with Industry Standard Architecture (ISA) bus systems; the MC/X is compatible with IBM's Micro Channel® Architecture platform.

The DigiBoard PC/X and DigiBoard MC/X are ideal for use in small multiuser workgroup systems, multiple point data acquisition, office and factory automation, remote LAN dial-in and other applications requiring multiple I/O capabilities. Full modem support is provided for every serial channel. Terminals, printers, modems, plotters, mice and other asynchronous serial peripherals are all fully supported by the PC/X and MC/X.

Hardware Features: DigiBoard PC/X

The PC/X is available in three configurations: four ports (DigiBoard PC/4), eight ports (DigiBoard PC/8) and 16 ports (DigiBoard PC/16). Four PC/4 or PC/8 boards or two PC/16 boards can be installed in a single computer, supporting up to 32 total serial channels in the host system.

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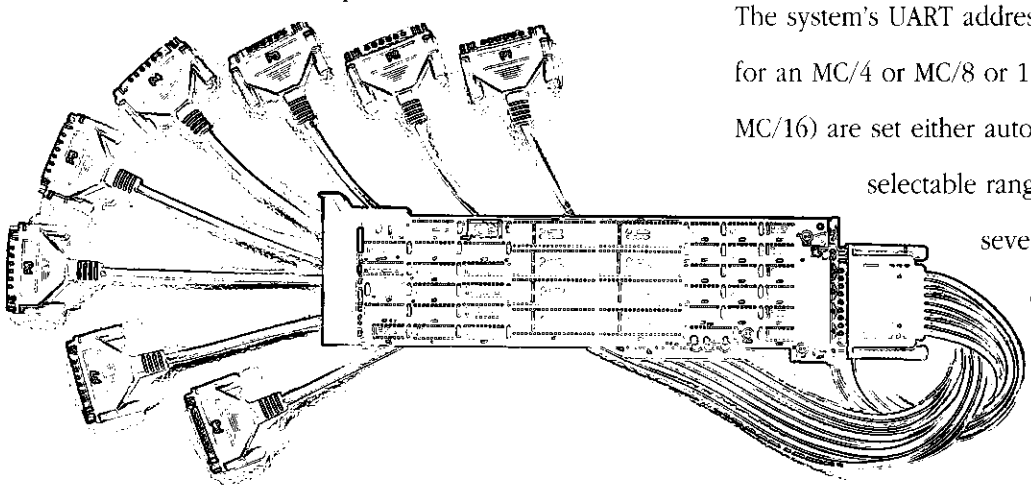
Hardware Features: DigiBoard MC/X

The DigiBoard MC/X is available in three configurations: four ports (the DigiBoard MC/4), eight ports (the DigiBoard MC/8) and 16 ports (the DigiBoard MC/16). Four MC/X boards can be installed in a single computer supporting up to 64 total serial communication channels in the host system. As with the PC/X, each port is an industry standard RS-232 asynchronous serial port with full modem control and hardware handshaking, and is equipped with its own 16450 UART or 16550 option.

Each port is an industry standard RS-232 asynchronous serial port with full modem control and hardware handshaking. Each channel is equipped with its own 16450 UART. A 16550 UART option, including FIFO buffers, is also available on a special order basis. Each channel offers independently selectable data transfer rates ranging from 50 bps to 56 Kbps, as well as independent definable character widths, stop-bits and parity.

Every DigiBoard PC/X board has special interrupt logic to reduce host overhead and improve performance. Each time an interrupt occurs, the host needs only to perform a single I/O read to locate the port that needs service — even if multiple boards are installed. This eliminates the traditional polling of all ports for every interrupt. The result: a substantial decrease in the host CPU overhead and faster serial performance.

The DigiBoard MC/X employs IBM's POS (Programmable Option Select) feature, eliminating the need for DIP switches and identifying the available programmable interrupts and UART start addresses. The POS identifies one of eight programmable interrupts shared by all of the ports on the board and allows additional boards within a single host system to share the same interrupt or to be assigned individual interrupts. The system's UART addresses (65-byte blocks for an MC/4 or MC/8 or 130-byte blocks for an MC/16) are set either automatically in a user-selectable range or under one of seven set starting locations defined by POS.



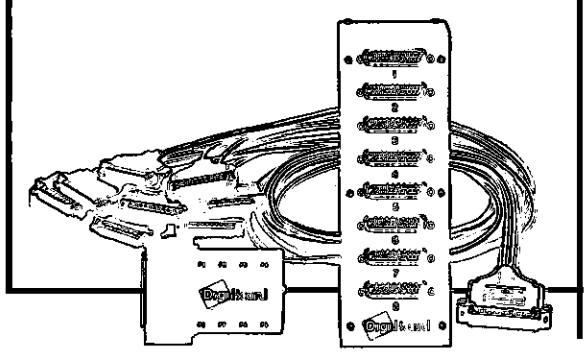
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RJ-45 Pinout Scheme

Pin #	Signal	Description	Pins in Connector			
			10	8	6	4
1	RI	Ring Indicator	X	-	-	-
2	DSR	Data Set Ready	X	X	-	-
3	RTS	Request to Send	X	X	X	-
4	C.GND	Chassis Ground	X	X	X	X
5	TXD	Transmit Data	X	X	X	X
6	RXD	Receive Data	X	X	X	X
7	SG	Signal Ground	X	X	X	X
8	CTS	Clear to Send	X	X	X	-
9	DTR	Data Terminal Ready	X	X	-	-
10	DCD	Data Carrier Detect	X	-	-	-

DB-25 Pinout Scheme

Pin#	Signal	Description
01 and Shell	CHASSIS	Chassis Ground
02	TXD	Transmit Data
03	RXD	Receive Data
04	RTS	Request to Send
05	CTS	Clear to Send
06	DSR	Data Set Ready
07	GND	Signal Ground
08	DCD	Data Carrier Detect
20	DTR	Data Terminal Ready
22	RI	Ring Indicator



Connectors

DigiBoard offers three connector options on the DigiBoard PC/X and MC/X: RJ-45 jacks and a DB-25 I/O Mate box, or DB-25 octopus cables, all with full modem control. The RJ-45 option offers the greatest flexibility—if full modem control is not necessary for your application, standard RJ-11 telephone wire can be used and will supply both data and ground. Note: The PC/16 and MC/16 are available with RJ-45 connectors only.

Software Support

DigiBoard's DigiBoard PC/X and DigiBoard MC/X hardware is known for its compatibility with a wide range of operating systems. DigiBoard connectivity solutions support multiuser operating systems from AIX to XENIX. Because of the dynamic nature of the computer industry, operating system support is con-stantly being developed and improved. Please contact your DigiBoard representative for a complete list of compatible operating systems.

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Features/Specifications

DigiBoard PC/X

- 4, 8 or 16 RS-232C asynchronous communication channels
- 16450 UARTs (16550 option available)
- Baud rate selectable between 50 bps and 56 Kbps

Power Requirements

DigiBoard PC/4
+5V +/- 5% 1.0 Amp maximum
+12V +/-5% 55 mA maximum
-12V +/- 5% 80 mA maximum

DigiBoard PC/8
+5V +/- 5% 1.2 Amps maximum
+12V +/-5% 110 mA maximum
-12V +/- 5% 160 mA maximum

DigiBoard PC/16
+5V +/- 5% 1.8 Amps maximum
+12V +/-5% 130 mA maximum
-12V +/- 5% 180 mA maximum

System Requirements

- One 16-bit slot
- One unused I/O port address

Environmental Requirements

Ambient temp.	50°F to 130°F (10°C to 55°C)
Relative humidity	5% to 90%
Air movement	30 CFM forced
Altitude	0 to 12,000 ft (0 to 3660 m)

Board Dimensions

Length:	13.1 in (33 cm)
Width:	4.2 in (10.7 cm)
Height:	0.5 in (1.2 cm)
Weight:	1.0 lb (0.45 kg)

DigiWARE® Software Support



SCO, UNIX SVR3, DOS, Multiuser DOS, OS/2, Microsoft Windows 3.X

For an updated list of software support via DigiBoard and other third party vendors, please contact your DigiBoard representative.

DigiBoard MC/X

- 4, 8 or 16 RS-232C asynchronous communication channels
- 16450 UARTs (16550 option available)
- Baud rate selectable between 50 bps and 56 Kbps
- POS identifies programmable interrupts and UART start addresses

Power Requirements

DigiBoard MC/4
+5V +/- 5% 1.5 Amp maximum
+12V +/-5% 1.25 mA maximum
-12V +/- 5% 1.25 mA maximum

DigiBoard MC 8
+5V +/- 5% 1.5 Amps maximum
+12V +/-5% 25 mA maximum
-12V +/- 5% 25 mA maximum

DigiBoard MC 16
+5V +/- 5% 1.5 Amps maximum
+12V +/-5% 50 mA maximum
-12V +/- 5% 25 mA maximum

Environmental Requirements

Ambient temp.	50°F to 130°F (10°C to 55°C)
Relative humidity	5% to 90%
Air movement	30 CFM forced
Altitude	0 to 12,000 ft (0 to 3660 m)

Board Dimensions

Length:	11.5 in (29.2 cm)
Width:	3.475 in (8.8 cm)
Height:	0.6 in (1.2 cm)
Weight:	0.75 lb (0.34 kg)

Certification

FCC Class B

Warranty and Technical Support

DigiBoard serial communication products have an unmatched field failure rate of less than one-half-of-one percent. Plus they are backed by a comprehensive five year warranty to ensure that you will have a fully functional board for the life of your system. And when you need help, DigiBoard technical support is always as close as your phone.

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