

DFlex/104

Applications

The DFlex/104 adapter is a compact, standard multi-port serial adapter for PC/104 compatible systems. It provides a highly flexible solution for software requiring multi-channel serial I/O. You are able to configure the DFlex/104 adapter to suit the various I/O requirements of your application by installing different Serial Line Interface Modules (SLIMs). The DFlex/104 is an ideal industrial strength solution for connecting to data collection devices, barcode readers, time clocks, scales and other industrial automation equipment with different electrical interfaces.

Features

- Four asynchronous RS-232, and/or RS-422/485, and/or RS-423 and/or 20mA Current Loop serial ports (with installation of the appropriate Serial Line Interface Modules).
- 16C654 quad UARTs are used to control each port. 16C654 quad UARTs offer onboard 64 byte TxD/RxD FIFO buffers for software supporting additional data buffering capability.
- Eight predefined sets of I/O addresses are DIP switch selectable.
- Each port can be configured independently: baud rates up to 460.8 Kbps; data bits of 5, 6, 7 or 8; stop bits of 1, 1.5, or 2, and odd, even or no parity.
- IRQ lines are jumper selectable. A choice of IRQs 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, and 15 is available and you can set each DFlex/104 board to run on one, two or four interrupts.
- Optional DB-9 male cables available (custom connectors also available).
- 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. A state of the art 16C654 quad UART with 64 bytes of transmit and receive FIFO buffers offloads interrupt handling and buffering from the main CPU, thus improving overall system performance.

Hardware Flexibility

The DFlex/104 adapter uses Serial Line Interface Module (SLIM) technology to provide different electrical interfaces such as RS-232, RS-422/485, RS-423 and 20mA Current Loop on the same adapter. As hardware requirements change within the application, the user may field upgrade the adapter with the appropriate SLIM. You can install multiple DFlex/104 adapters in a system to accommodate large multi-user or multi-channel I/O requirements. Port addresses and interrupt lines are DIP switch and jumper selectable.

Software Compatibility

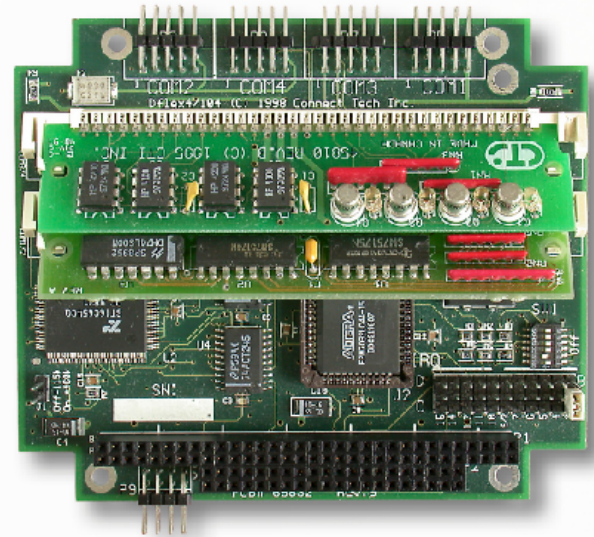
Because of its compatibility with standard PC serial ports, the DFlex/104 board supports all the most popular operating systems and communication software.

Easy to Use

To get you up and running in no time, the DFlex/104 comes ready for simple installation. Included are board, driver software and a comprehensive manual.

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. DFlex/104 products are covered by our excellent no cost customer support and a lifetime warranty.



Specifications

	DFlex/104
Number of Ports	4
Interface Modules	RS-232, and/or RS-422/485, and/or RS-423 and/or 20 mA Current Loop
Connectors	10 pin header connectors (custom connectors and optional DB-9 male cables also available)
Control Signals	RS-232: DTR, RTS, CTS, TxD, RxD, DCD RS-422/485: RTS ±, TxD ±, CTS ±, RxD ± RS-423: RTS, TxD, CTS ±, RxD ± 20mA Current Loop: TxD, RxD (active or passive)
Baud Rates	50 bps to 460.8 Kbps
Addresses	Base addresses for I/O ports are DIP switch selectable, offering eight predefined address sets
Interrupts	Jumper selectable for IRQs 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15
UART	16C654 quad UART
Dimensions	Length: 4.45 in./11.30 cm. Width: 4.01 in./10.19 cm. (includes 10 pin headers) Height: 0.91 in./2.31 cm. (with SLIM installed)
Temperature	Operating: 0° C to 70° C Storage: -40° C to 150° C Humidity: 95% non-condensing
Bus	ISA bus compatible 16 bit PC/104 connector
Power Requirements (no load)	DFlex/104 adapter: +5 VDC @ 100 mA +5 VDC @ 400 mA (if using the +5V connections on the COM port headers) RS-232 SLIM: +5 VDC @ 30 mA ±12 VDC @ 1 mA RS-232 Fast SLIM: +5 VDC @ 30 mA ±12 VDC @ 38 mA RS-422/485 SLIM: +5 VDC @ 120 mA RS-423 SLIM: +5 VDC @ 70 mA ±12 VDC @ 26 mA 20mA Current Loop SLIM: +5 VDC @ 30 mA ±12 VDC @ 4 mA
Software Compatibility	DOS, Linux, QNX, SCO Unix, Solaris, and Windows 95/98/Me/CE/CE .NET/NT/2000/XP (contact Connect Tech for most current list)
System Requirements	One available PC/104 module stack connector and hardware interrupt (if required)

Please call Connect Tech for more information about the DFlex/104 adapter

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