DFlex
DFlex/Fast

Applications

DFlex adapters offer two, four or eight asynchronous RS-232 and/or RS-485/422 and/or RS-423 and/or 20mA Current Loop serial ports for connecting data collection devices, barcode readers, time clocks, scales and many other serial devices. DFlex adapters with their electrical interfaces on Serial Line Interface Modules (SLIMs) provide highly flexible, industrial strength solutions for control and automation applications using ISA bus compatible computers.

Features

- Two, four or eight asynchronous serial ports
- RS-232 and/or RS-485/422 and/or RS-423 and/or 20mA Current Loop electrical interfaces via Serial Line Interface Modules (SLIMs)
- Supports data communications speeds up to 460.8 Kbps
- 16450, 16550, 16650 or 16750 UARTs with 16 to 64 bytes of TxD/RxD FIFO buffers control each port
- Eight pre-defined sets of I/O addresses are DIP switch selectable
- IRQ lines are jumper selectable with a choice of IRQ lines 3, 4, 5, 7, 10, 11, 12, 15 and can be set to run on one, two, or no interrupts
- Independent port configuration with baud rates from 50 bps to 460.8 Kbps, data bits of 5, 6, 7 or 8; stop bits of 1, 1.5, or 2, and odd, even, or stick parity
- A choice of DB-9 or DB-25 cable harness connectors, RJ-45 module or DB-9 external connector box (custom connector solutions offered as well)
- Includes SeePORT, a full-featured software data analyzer for Windows 95/98
- 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. 16450, 16550, 16650 or 16750 UARTs with 16 to 64 bytes of TxD/RxD FIFO buffers offload interrupt handling from the main CPU, thus improving overall system performance.

Hardware Flexibility
DFlex adapters use SLIM technology to provide different electrical interfaces such as RS-232, RS-485/422, RS-423 and 20mA Current Loop on the same board. As hardware requirements change within the application, you can field upgrade the board with the appropriate interface module. Multiple DFlex boards may reside in a computer to accommodate large multi-user or multi-channel I/O requirements. Port addresses and interrupt lines are DIP switch and jumper selectable. You can configure each port's baud rate, parity, data and stop bits independently and various connector options are offered to suit your needs. These features offer more hardware flexibility and adaptability for your application needs.
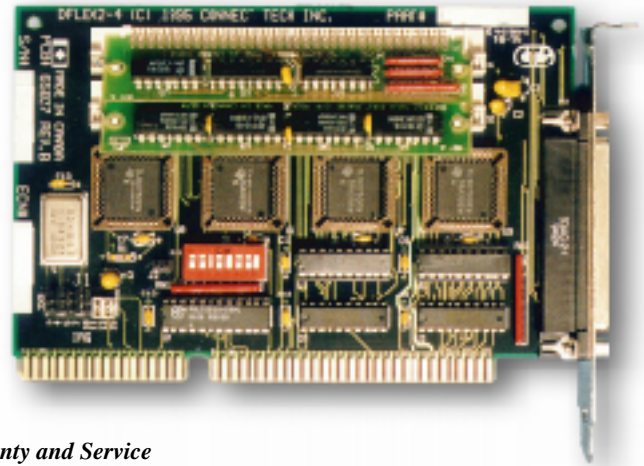
Software Compatibility
DFlex adapters support the most popular operating systems such as BSD/OS, DOS, Linux, LynxOS, QNX, Solaris, SCO Unix, Windows 95/98/Me/XP and Windows NT/2000. This provides you with more software flexibility for your communication needs.

Easy to Use
The DFlex adapter comes ready for simple installation. Included are board, driver software, cable harness (4/8 port models) and a comprehensive manual.

Diagnostics Tools
The DFlex adapter includes the Windows 95 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. The DFlex adapter comes with a one year warranty.

Specifications

	DFlex-2 DFlex-2/-Fast	DFlex-4 DFlex-4/-Fast	DFlex-8
Number of ports	2	4	8
Interface Modules	RS-232 and/or RS-485/422 and/or RS-423 and/or 20mA Current Loop		
Connectors	*2 port model*: DB-9 male connectors *4/8 port models*: DB-9 or DB-25 male cable or connector box (custom connector solutions offered)		
Control Signals	*RS-232*: RTS, CTS, TxD, RxD, DCD, DTR *RS-485/422/423*: TxD ±, RxD ±, CTS ±, RTS ± *20mA*: TxD, RxD (active or passive)		
Baud Rates	*DFlex-2/-4/-8:* 50 bps - 115. Kbps *DFlex-2/-4 Fast:* 50 bps - 460.8 Kbps		
I/O Addresses	eight pre-defined sets of I/O addresses are DIP switch selectable - requires one set of eight addresses		
Interrupts	jumper selectable for IRQs 3, 4, 5, 7, 10, 11, 12, 15		
UART Type	16450, 16550, 16650 or 16750 UARTs c/w 16 to 64 byte TxD/RxD FIFO buffers		
Dimensions	Height: 9.90 cm Length: 16.00 cm Width: 1.40 cm		Height: 9.90 cm Length: 23.00 cm Width: 1.40 cm
Power Requirements	0.7 amps	0.9 amps	1.3 amps
Environmental Requirements	Temperature: (operating): 10º to 60º C (storage): -60º to 100º C Humidity: 5% - 90% non-condensing		
Regulatory Approvals	FCC Class A EN50082-2 ICES-003 EN55022 Class A		
Bus	ISA bus compatible 8 bit or 16 bit slot.		
Software Compatibility	BSD/OS, DOS, Linux, LynxOS, QNX, Solaris, SCO Unix, Windows 95/98/Me/XP and Windows NT/2000 (contact Connect Tech for most current list)		
System Requirements	one half slot (DFlex-2/-4) or one full slot (DFlex-8) and an available hardware interrupt(s).		
SLIMS	*** Note: only DFlex/Fast adapters with RS-232/Fast and RS-485/422 SLIMS can attain baud rates of 460.8 Kbps		
Power (no load, typ.)	*RS-232:* +5VDC @ 30mA ±12VDC@ 1mA *RS-232/Fast* +5VDC @ 30mA ±12VDC@ 38mA *RS-485/422* +5VDC @ 120mA *RS-423* +5VDC @ 70mA ±12VDC@ 26mA *20mA* +5VDC @ 30mA ±12VDC@ 4mA		

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Quality and Reliability since 1985

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