

PC/104 - USB to 4 RS-232/ 422/485 Ports

USB-FLEXCOM4 – USB to 4-Port Serial RS-232/422/485

FEATURES

- Four-port serial communications adapter for USB 1.1 and USB 2.0 host ports
- Supports field selectable RS-232, RS-422 or RS-485
 protocols, per port
- Includes type FT232BM UART with 384-byte receive/128-byte transmit FIFO buffers
- · Speeds up to 921.6kbps simultaneously
- Power LED and individual port activity LEDs next to the USB and each COM connector
- All required power drawn from USB port, no external power adapter required
- Compact, low profile enclosure

FACTORY OPTIONS

- OEM Board only version with no enclosure
- HDR -OEM with 10-pin headers per port
- DIN rail mounting bracket
- -RoHS Available in a RoHS compliant version



FUNCTIONAL DESCRIPTION

This flexible serial communications adapter was designed for effective multipoint transmission in any one of three modes on each channel. These modes are RS232, RS422 and RS485 (EIA485) protocol.

OEM USB/104 FORM FACTOR

The OEM (board only) version is perfect for a variety of embedded applications. What makes the OEM option unique is that its PCB size and mounting holes match the PC/104 form factor (without the bus connections). This allows our rugged USB to quad-serial port board to be added to any PCI-104 or PC/104 stack by connecting it to a simple USB port usually included on-board with embedded CPU form factors such as EBX, EPIC, and PC/104. This is especially important since many newer CPU chipsets do not support ISA and have plenty of USB ports. The USB-FLEXCOM4 OEM board can also be installed using standoffs inside other enclosures or systems.

ACCESSORIES

The USB-FLEXCOM4 is available with optional cable assemblies and screw terminal adapter board ADAP9.

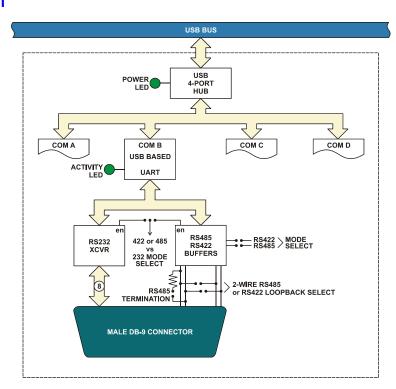


SOFTWARE

The USB-FLEXCOM4 is plug-and-play which allows quick connect or disconnect whenever you need additional I/O on your USB port. The module utilizes a high-speed custom function driver optimized for a maximum data throughput that is 50-100 times faster than the USB human interface device (HID) driver used by many competing products. This approach maximizes the full functionality of the hardware along with capitalizing the advantage of high-speed USB 2.0. The USB-FLEXCOM4 is supported for use in most USB supported operating systems and includes a free Linux and Windows 98se/Me/2000/XP/2003 compatible software package. This package contains sample programs and source code in Visual Basic, Delphi, C++ Builder, and Visual C++ for Windows. Also incorporated is a graphical setup program in Windows. Third party support includes a Windows standard DLL interface usable from the most popular application programs. Embedded OS support includes Windows Xpe.

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Specifications

Communications Interface Serial Ports:

Character length: Parity: Stop Interval: Serial Data Rates:

Receiver Input Sensitivity: Common Mode Rejection: Transmitter Output Drive:

Bus Type USB Connector: Embedded USB Connector COM A through COM D via four male DB9 connectors 5, 6, 7, or 8 bits Even, odd or none 1, 1.5, or 2 bits Up to 921.6k for RS-422/485 modes, 230.4kbps for RS-232 +200 mV, differential input +12V to -7V Up to 60 mA, with thermal shut down USB 2.0 Full-Speed Type B, high-retention 5-pin header, Molex part number

Asynchronous

53047

Environmental

Operating Temperature: Storage temperature: Humidity: Power Required:

Size: Board Dimension:

Box Dimension:

0 °C. to +60 °C -50 °C. to +120 °C 5% to 95%, non-condensing 5VDC at approximately 110 mA (plus loads up to an additional 240 mA) from USB bus 3.550 x 3.775 inches (PC/104 size & mounting) 4.00 x 4.00 x 1.25 inches

Ordering Information

USB-FLEXCOM4 USB-COM232-4A USB to four port RS-232/422/485 serial adapter USB to four port RS-232 serial adapter

Mating connector housing is Molex part number 51021 0500

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