

USB-422/485-IND

Rugged, Industrial Strength USB to RS-422/485 port, Extended Temperature

FEATURES

- RoHS compliant, single-port serial communications adapter for USB 2.0 or 3.0
- Supports full-duplex RS-422/485 protocol
- Includes type FT232R UART with 128-byte receive/256-byte transmit FIFO buffers
- Speeds up to 5Mbps asynchronous
- Supports 7 or 8 data bits, 1 or 2 stop bits, and odd / even / mark / space / no parity
- ±15kV ESD Protection (IEC 6100) on 422/485 signals
- All required power drawn from host USB port, no external power adapter required
- · Compact, industrial, metal backshell
- Operating temperature of -40° to +85°C
- Supported for use in Windows CE

FACTORY OPTION

-Term RC Termination-HF Halogen Free Cable

APPLICATIONS

- Scales
- Data entry terminals
- Data acquisition and automation modules
- Transportation



FUNCTIONAL DESCRIPTION

The USB-422/485-IND is a rugged industrial serial communications adapter designed for use in demanding real-world applications such as transportation, military embedded control systems, remote data acquisition, mobile, and more. This intelligent module provides a cost-effective solution for transferring high-speed asynchronous serial data over USB. The adapter provides easy connectivity between the computer and standard communication ports or remote serial devices. No PC reconfiguration, assignment of IRQs, or jumper settings required. The adapter will be recognized as a USB to Serial Adapter and install in the system as a standard COM port.

ACCESSORIES

The module is available with an optional screw terminal adapter board model ADAP9 to break out signals for ease of connection.

SOFTWARE

The USB-422/485-IND is a plug-and-play device using the built in OS drivers which allows quick connect or disconnect without having to fumble with locating driver media whenever you need an RS-422/485 port. The USB-422/485-IND is supported for use in most USB supported operating systems and includes a free Linux and Windows compatible software package. The software package includes sample programs and source code in C#, Delphi, Visual Basic, and Visual C++ for Windows.

SPECIFICATIONS

Communications Interface

Serial Port: RS-422/485 Connector: DB-9 Male Character Length: 7 or 8 bits

Parity: Even, odd, mark, space or none

Stop Interval: 1 or 2 bits

Serial Data Rates: 300bps up to 5Mbps asynchronous

±14V Input/Output Voltage: Receiver Input Sensitivity: ±200mV

120Ω w/0.01μF capacitor (Factory Option) Termination: Bias: Transceiver and Receiver via $10K\Omega$

ESD Protection: ±15kV on all signal pins **Bus Type** USB 2.0 Full-Speed USB 3.0 Compatible

Environmental

-40° to +85°C Operating Temp: -65° to +150°C Storage Temp:

Humidity: 5% to 95%, non-condensing Power Required: 5VDC at ~11mA with no load

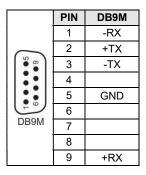
Cable Length: 6 feet

Backshell Dimensions: 1.236" x 0.657" x 2.094"

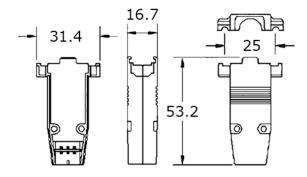
(31.4mm x 16.7mm x 53.2mm)

Ordering Guide USB-422/485-IND USB to RS-422/485 industrial serial adapter

> USB-422/485-IND-TERM As above, including termination USB-422/485-IND-HF Uses a Halogen Free cable

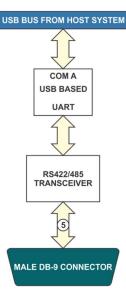


Pinout Table



Units: mm±0.5 **Backshell Drawing**





BLOCK DIAGRAM