# ACCES 1/0 PRODUCTS, INC.

## USB-485-IND Rugged, Industrial Strength USB to RS-485 port, Extended Temperature

#### **FEATURES**

- RoHS compliant, single-port serial communications adapter for USB 2.0 or 3.0
- Supports multi-drop RS-485 protocol
- Includes type FT232R UART with
   128-byte receive/256-byte transmit FIFO buffers
- Speeds up to 3Mbps 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 RS-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 Adds RC Termination

## **APPLICATIONS**

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

## FUNCTIONAL DESCRIPTION

The USB-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

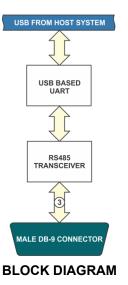
The USB-485-IND is a plug-and-play device using the built in OS drivers which allows quick connect or disconnect without having to fumble with locating driver media whenever you need an RS-485 port. The USB-485-IND is supported for use in most USB supported operating systems and includes a free Linux 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: Connector: Character Length: Parity: Stop Interval: Serial Data Rates: In/Output Voltage: Receiver Input Sens.: Termination: Bias: ESD Protection: RS-485 DB-9 Male 7 or 8 bits Even, odd, mark, space or none 1 or 2 bits 300bps up to 3Mbps asynchronous  $\pm 14V$  $\pm 200mV$ 120 $\Omega$  w/0.01 $\mu$ F capacitor (TERM Factory Option) Transceiver lines via 10k $\Omega$  $\pm 15kV$  on all signal pins USB 2.0 Full-Speed USB 3.0 Compatible



#### Environmental

**Bus Type** 

Operating Temp: Storage Temp: Humidity: Power Required: Cable Length: Backshell Dim.:

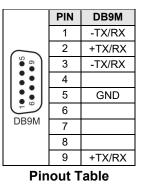
**Ordering Guide** 

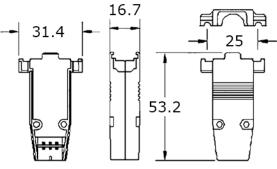
-40° to +85°C -65° to +150°C 5% to 95%, non-condensing 5VDC at ~11mA with no load 6 feet 1.236" x 0.657" x 2.094" (31.4mm x 16.7mm x 53.2mm)

USB-485-IND

USB-485-IND-TERM

USB to RS-485 industrial serial adapter As above, but with termination





Units: mm±0.5 Backshell Drawing

