SeaLINK USB Serial Adapters

USB RS-485 Serial Adapter Designed for Extreme Environments

Features

- > High speed UART with 128-byte Tx FIFO and 384-byte Rx FIFO
- > Supports 2-wire RS-485 networks
- > Programmable baud rate and data formats
- > Supports data rates to 921.6K bps
- > Status LEDs molded into enclosure indicate serial data activity and connection to host
- > Powered by USB host connection
- > Standard DB9M serial connector
- > Rugged, military-grade enclosure improves durability in mobile and industrial applications
- > Attached cable is approximately 44 inches in length
- > Overall length is 48 inches
- > Compliant with RoHS and WEEE directives
- > Sealevel SeaCOM software supports Microsoft Windows and Linux operating systems
- > Includes removable 5-position terminal block adapter (Item# TB34)

The 2107 provides a single port USB to RS-485 asynchronous serial port and versatile interface for common RS-485 applications. The adapter utilizes Sealevel's expertise in military-grade designs by incorporating a ruggedized, overmolded enclosure. This improves the reliability and durability in automation, factory floor, industrial and mobile RS-485 applications.

The 2107 supports 2-wire RS-485 networks and includes a removable terminal block adapter (Item# TB34) that simplifies field wiring. Thumbscrews on the TB34 secure the terminal block adapter to the serial port and prevent accidental disconnection.

The USB serial adapter features programmable baud rate and data formats with 128-byte transmit and 384-byte receive buffers. The adapter is compatible with all standard PC baud rates and supports high-speed communication to 921.6K bps. The 2107 is powered by the USB port and status LEDs molded into the enclosure indicate serial data activity and connection to the host.

Sealevel SeaCOM USB software drivers and utilities make installation and operation easy using Microsoft Windows and Linux operating systems. After installing the software, simply plug the 2107 into an available USB port and the serial port is recognized as a standard COM port by the host system enabling compatibility with legacy software.

The attached cable is approximately 44 inches long and fully shielded to protect the 2107 from RF and EMI interference that is common in mobile and industrial environments. The 2107 operates over an extended temperature range of -40 - +85C.

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www.sealevel.com > Tel: 864.843.4343 > sales@sealevel.com

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Specifications

Host Interface	USB
# of Ports	1
Brand/Family	SeaLINK
Electrical Interface	RS-485
USB Powered	Yes
RoHS	Yes
Serial Connector(s)	DB9M
Communications Chip	USB/UART
Max Data Rate	921.6K bps
Max Data Distance	4000 feet
Power Requirement	+5V @ 100mA
USB Specification	1.1 Compliant, 2.0 Compatible
Operating Temperature	-40 - +85C
Storage Temperature	-50 - +105C
Humidity Range	10-90% R.H.
Dimensions	2.1” (L) x 1.4” (W) x 0.6” (H)

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Whether you require one serial port or sixteen, SeaLINK® USB serial adapters will have you quickly communicating with RS-232, RS-422, and RS-485 peripherals. Unlike traditional UART-based products, SeaLINK USB serial adapters use a state-machine architecture that reduces host processor overhead for faster, more reliable communications.

Do you know that adapter design can impact your application? Download our USB Serial performance report to learn more at http://www.sealevel.com/support/article/AA-00145/.

Terminal Block - DB9 Female to 5 Screw Terminals

The TB34 terminal block adapter offers a simple solution for connecting RS-422 and RS-485 field wiring to a serial port. The terminal block is compatible with 2-wire and 4-wire RS-485 networks and matches the RS-422/485 pin-out on Sealevel serial devices with DB9 male connectors. A pair of thumbscrews secures the adapter to the serial port and prevents accidental disconnection. The TB34 is compact and allows multiple adapters to be used on multi-port serial devices, such as Sealevel USB serial adapters, Ethernet serial servers and other Sealevel serial devices with two or more ports.