



# USB to 8-Port RS-422, RS-485 DB9 Serial Interface Adapter

**Part:** 2802 | **Model:** SeaLINK+8/485

The SeaLINK® 2802 USB serial I/O adapter provides eight RS-422 or RS-485 serial ports for USB connectivity to legacy or non-USB compliant devices. Each serial port can be individually configured via dipswitches located inside the enclosure.

The 2802 is housed in a rugged metal enclosure making it ideal for rugged and industrial environments. The adapter integrates Sealevel's SeaLATCH locking USB port, which is fully compatible with standard USB cables. When used with the included USB cable with a locking type B connector, the metal thumbscrew provides a secure connection to the device and prevents accidental cable disconnection. Additionally, the high-retention type B connector helps prevent unintentional separation from a standard USB cable.

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 2802 into an available USB port. The serial ports are recognized as standard COM ports by the host system enabling compatibility with legacy software.

All Sealevel SeaLINK USB serial adapters use a state-machine architecture that greatly reduces the host computer's overhead when communicating over multiple serial ports simultaneously while supporting data rates to 460.8K bps. Status LEDs on the front of the enclosure indicate power and serial data activity on each port.

Standard operating temperature range is 0°C to 70°C and extended temperature range (-40°C to 85°C) is optional.

Do you know that adapter design can impact your application? Find out how in this USB Serial Performance report.

Features & Specifications

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Features

- Compliant with RoHS and WEEE directives
- Each port individually configurable for RS-422 or RS-485
- High-speed UART with 128-byte Tx FIFO and 384-byte Rx FIFO
- Data rates to 921.6K bps
- Automatic RS-485 enable/disable
- Serial and USB activity LEDs
- Hot-swappable
- Powered by USB connection
- Sealevel's SeaLATCH locking USB port provides secure connection with SeaLATCH USB cables via metal thumbscrews
- Sealevel software supports Windows and Linux operating systems
- DB-9M connectors
- Includes 6' USB type A to SeaLATCH USB type B device cable (Item# CA356)

Specifications

# of Ports	8
Communication Chip	USB/UART
Dimensions	8.7" (L) x 6.1" (W) x 2.0" (H)
Electrical Interface	RS-422, RS-485
High Retention USB	Yes
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	USB
Max Data Distance	4000 feet
Max Data Rate	921.6K bps
Family	SeaLINK
USB Specification	1.1 Compliant 2.0 Compatible
Power Requirement	+5V @ 500mA
RoHS Compliant	Yes
SeaLATCH Locking USB	Yes
Serial Connector(s)	DB9M
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
USB Powered	Yes
Operating Temperature	0°C to 70°C (32°F to 158°F)