USB to 2-Port RS-232, RS-422, RS-485 (Software Configurable) DB9 Serial Interface Adapter

Part: 2223-KT | **Model:** SeaLINK+2.SC Kit

The SeaLINK® 2223-KT serial interface adapter provides two software configurable RS-232, RS-422, or RS-485 ports via an internal USB connection. All configuration and electrical interface selections are handled through the driver, eliminating the need to open the enclosure to set jumpers or switches. Each serial port is individually configurable for RS-232, RS-422, and RS-485 with the electrical interface settings maintained locally.

Sealevel SeaCOM USB software drivers and utilities make installation and operation easy using Microsoft Windows operating systems. After installing the software, simply connect the 2223-KT to an internal USB header connector, and then boot the system. 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 921.6K bps. Status LEDs on the board indicate power, serial data activity, and electrical interface.

The 2223-KT is USB bus-powered, so no external power supply is needed. A 2mm 4-pin Molex vertical header provides an internal USB connection to your host system. For EBX and larger motherboards with a 0.1 onboard USB header, order the CA260 internal USB cable. For smaller motherboards with a 2mm onboard USB header, order the CA383 internal USB cable. Standard operating temperature range of SeaLINK adapters is 0°C to 70°C and extended temperature range (-40°C to 85°C) is optional.

The intelligent Porthole design is perfect for expanding industrial computing platforms using only an internal USB connection. iPorthole modules include an intelligent USB I/O board with Sealevel's innovative Porthole mounting plate for installation in a Relio or custom enclosure. Simply design the 3.2 x 3.1 Porthole mounting footprint into your enclosure to mix and match iPorthole USB I/O modules for maximum configurability. The Porthole footprint offers a standardized method for interfacing real-world I/O connections.

Features & Specifications
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Features

- Compliant with RoHS and WEEE directives
- Each port individually software configurable for RS-232, RS-422, or RS-485
- Electrical interface settings are maintained across multiple computers
- High speed UART with 128-byte Tx FIFO and 384-byte Rx FIFO
- Supports data rates to 921.6K bps
- Automatic RS-485 enable/disable
- Status LEDs display electrical interface selection and serial data activity
- Power LED displays connection to host
- Powered by USB connection
- Two DB9M connectors with full modem control signals implemented in RS-232 mode
- Sealevel SeaCOM software supports many Windows operating systems
- Uses Molex 4-pin vertical 2mm locking header for USB connection (Mating connector Molex# 35507-0400)

Specifications

Family	SeaLINK
Communications Chip	USB/UART
Dimensions	3.2 (L) x 3.1 (W) x 0.8 (H)
Electrical Interface	RS-232, RS-422, RS-485
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	USB
Max Data Distance	50 feet (RS-232) 4000 feet (RS-485)
Max Data Rate	921.6K bps
OEM	Yes
Operating Temperature	0°C to 70°C (32°F to 158°F)
# of Ports	2
Power Requirement	+5V @ 200mA
RoHS Compliant	Yes
Serial Connector(s)	DB9M
Software Configurable	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
USB Powered	Yes
USB Specification	1.1 Compliant 2.0 Compatible