



# USB to RS-232 RJ45 Serial Interface Adapter

**Part:** 681U | **Model:** Seal/O-681U

The Seal/O-681U easily adds eight RS-232 serial ports to a Relio R1000, SeaPAC industrial touchscreen computer, stack of Seal/O modules, or anywhere serial devices need to be connected via an available USB port. The serial ports appear as standard COM ports to the host system enabling compatibility with legacy software. The Seal/O-681U supports data rates to 921.6K bps and is designed with a state-machine architecture that greatly reduces the host CPU overhead when communicating over multiple ports simultaneously. Status LEDs display transmit and receive data activity.

The Seal/O-681U is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options. For conveniently powering serial peripherals, the supplied power is fused and connected to pin 5 on each of the RJ45 serial connectors. A high-retention USB type B connector helps to prevent accidental disconnection of the USB cable.

An RS-485 pass-through connector on the side of the Seal/O-681U provides additional I/O expansion using Seal/O N-series expansion modules. Increase your I/O network with up to 246 additional Seal/O expansion modules, available with Reed and Form C relays, optically isolated inputs, TTL interfaces, A/D and D/A functionality.

Features & Specifications

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Features

- Compliant with RoHS and WEEE directives
- Utilizes high speed UARTs with 128-byte Tx FIFOs and 384-byte Rx FIFOs
- Provides 8 RJ45 serial ports with Tx/Rx status LEDs
- Integrates transmit and receive LED indicators on each port
- High-retention USB type B connector prevents accidental disconnection of USB cable
- Input power via terminal block or barrel connector
- Includes 72 USB A to B cable (Item# CA179)

Specifications

Family	Seal/O
Communications Chip	USB/UART
Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Electrical Interface	RS-232
Extended Temperature	Call for Options
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	USB
Max Data Distance	50 feet
Max Data Rate	921.6K bps
Operating Temperature	0°C to 70°C (32°F to 158°F)
# of Ports	8
Power Requirement	9-30 VDC @ 1.5W
RoHS Compliant	Yes
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
USB Specification	1.1 Compliant 2.0 Compatible