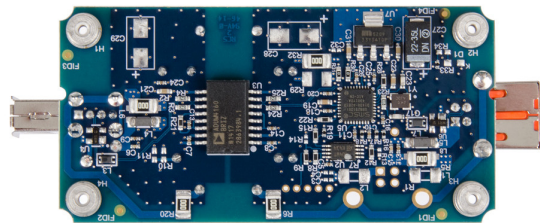
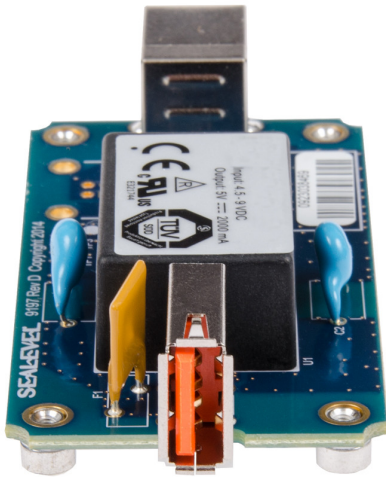
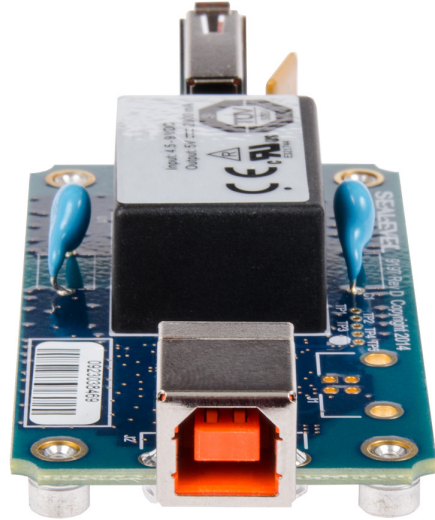
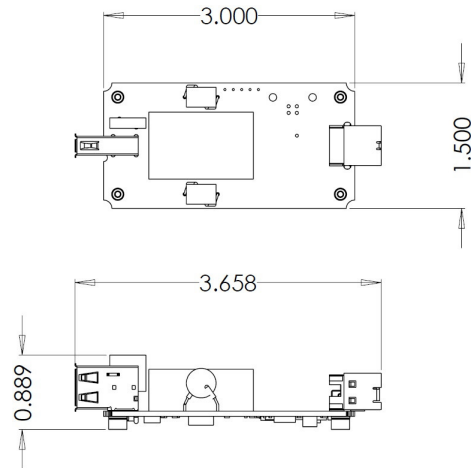
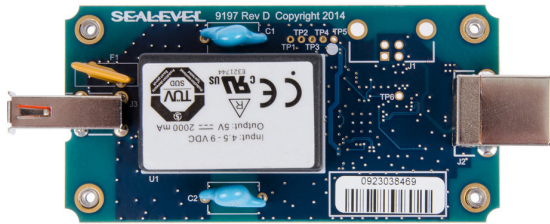


SealSO Embedded Single Port Inline USB Isolator

sealevel.com/product/iso-1-oem-seaiso-embedded-single-port-inline-usb-isolator





Part: ISO-1-OEM **Model:** SealISO OEM USB Isolator

\$99.00

- For applications that require embedded USB isolation
- Protects host and field equipment from damaging surges and transients
- Features medical-grade 4 kV isolation, data and power
- Powered by USB host connection; supports energy transfer with isolation
- Compliant with CE, FCC, RoHS and WEEE directives

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Description

For applications that require embedded USB isolation, the SealISO™ ISO-1-OEM is the ideal solution. The OEM single-port, inline USB isolator offers a simple method of protecting host and field equipment from damaging transients and surges commonly found in commercial, industrial and medical environments. The ISO-1-OEM protects both the data and power lines with 4 kV of medical-grade isolation between the host control system and connected USB equipment.

The ISO-1-OEM is USB bus powered and the efficient DC/DC design allows energy transfer over the isolation barrier. The isolator provides up to 300 mA to a downstream USB device when connected to a standard 500 mA USB port. Additionally, the isolator can provide a full 500 mA to a downstream device when connected to a USB port capable of sourcing 1 A, or greater. Convenient high-retention USB connectors prevent accidental cable disconnections.

Supported in Microsoft Windows, Linux, and other USB aware operating systems, the ISO-1-OEM requires no separate drivers. The isolator is easy to install and is automatically recognized as a generic USB hub device. The ISO-1-OEM is a USB 2.0 compatible device connecting to the host over a high-speed link and features full-speed (12 Mbps) data rates between the downstream USB device.

The printed circuit board includes M2 x 4mm threaded standoffs to simplify mounting in your application. Standard operating temperature range is -20°C to 60°C and extended temperature ranges are optional. A variety of USB cables are available as accessories. If you need a USB isolator with removable cables, see the [ISO-1](#). If you need a ruggedized USB isolator cable, see the [ISO-1R](#).

Category: [SealSO USB Isolators](#)

Additional information

Board Connector	USB High-Retention Type B Female (Host)USB High-Retention Type A Female (Device)
Family	SealSO
Certifications	EN60601-1 3rd Edition, FCC, CE
Communications Chip	USB Hub
Dimensions	3.00" (L) x 1.50" (W) x 0.90" (H) – 3.66" (L) w/ Connectors
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	USB
Max Data Distance	5 M
Max Data Rate	12 Mbps (Device Connection)
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
# of Ports	1
Power Requirement	USB +5V @ 200 mA (Max)
RoHS Compliant	Yes
Storage Temperature	-40°C to 85°C (-40°F to 185°F)

Upstream Isolation	4 kV Isolation
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USB Specification	2.0 Compatible (Host Connection)
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Protects host and field equipment from damaging surges and transients
Features medical-grade 4 kV isolation, data and power
Powered by USB host connection; supports energy transfer with isolation
Maximum of 1.1 A output current when connected to a high-power USB port
Provides 300 mA to downstream USB devices when connected to standard 500 mA USB port
Provides 500 mA to downstream USB devices when connected to 1 A USB port
High-retention USB connectors prevent accidental disconnection of USB cable
USB 2.0 compatible device supports full-speed 12 Mbps operation
Supported in Microsoft Windows, Linux and other USB aware operating systems
Compliant with CE, FCC, RoHS and WEEE directives

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