



# SealISO Embedded Single Port Inline USB 3 Isolator

**Part:** ISO-3-OEM | **Model:** SealISO OEM USB 3 Isolator (Left) and SealISO USB 3 Isolator (Right)\*

For applications that require embedded USB isolation, the SealISO™ ISO-3-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-3-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-3-OEM is USB bus powered and the efficient DC/DC design allows energy transfer over the isolation barrier. The isolator provides up to 1A to a downstream USB device when connected to a 1.5A USB port. Convenient high-retention USB connectors prevent accidental cable disconnections.

Supported in Microsoft Windows, Linux, and other USB aware operating systems, the ISO-3-OEM requires no separate drivers. The ISO-3-OEM is a USB 3.1 Gen 2 compatible device connecting to the host over a high-speed link and features 10 GB/S 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 0°C to 60°C and extended temperature ranges are optional.

A variety of USB cables are available as accessories.

\*Content included to be treated as confidential and PRELIMINARY. Specifications included herein are subject to modification without notice.

## Features & Specifications

### SealSO Embedded Single Port Inline USB 3 Isolator

**Part:** ISO-3-OEM | **Model:** SealSO OEM USB 3 Isolator and SealSO USB 3 Isolator

#### Features

- Protects host and field equipment from damaging surges and transients
- UL Recognized in accordance with EN60601-1 3rd Edition requirements
- 2 MOPP Protection
  - 4000 VAC Isolation
  - 8mm Creepage
  - Double Insulation
- Features medical-grade 4 kV isolation, data and power
- Powered by USB host connection; supports energy transfer with isolation.
- Provides up to 1A to downstream current (requires 1.5A available from host computer)
- Backwards compatible with USB 2.0
  - Low Speed (1.5Mbps)
  - Full Speed (12Mbps)
  - High Speed (480Mbps)
- Supported in Microsoft Windows, Linux and other USB aware operating systems
- Compliant with CE, FCC, RoHS and WEEE directives

#### Specifications

<b>Family</b>	SealSO
<b>Certifications</b>	EN60601-1 3rd Edition, FCC, CE
<b>Dimensions</b>	3.381" (L) x 1.414" (W) x 0.90" (H) – 3.67" (L) (w/ connectors)
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Host Interface(s)</b>	USB
<b>Max Data Rate</b>	10 GB/S
<b>Operating Temperature</b>	0°C to 60°C (32°F to 140°F)
<b># of Ports</b>	(1) USB Type-B (1) USB Type-A
<b>Power Requirement</b>	USB 5VDC, 1.5A
<b>RoHS Compliant</b>	Yes
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Upstream Isolation</b>	4000 VAC Isolation
<b>USB Specification</b>	3.1 Gen 2 Compatible (Host Connection)

\*Content included to be treated as confidential and PRELIMINARY. Specifications included herein are subject to modification without notice.