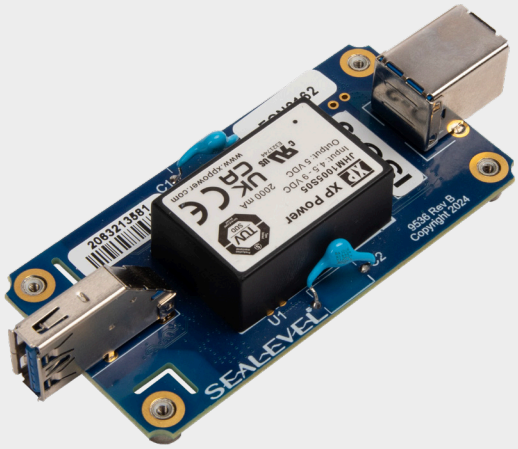



SealSO ISO-3 Embedded Single Port and Single Port In-line USB 3 Isolator

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

For applications that require embedded USB isolation, the SealSO™ ISO-3 and ISO-3-OEM offer the ideal solution. The single-port 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 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 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 and ISO-3-OEM require no separate drivers. The ISO-3 and ISO-3-OEM are connect to the host over a high-speed link and features 5 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

SeaISO ISO-3 Embedded Single Port and Single Port Inline USB 3 Isolator

Part: ISO-3-OEM | **Model:** SeaISO OEM USB 3 Isolator

Features

- Protects host and field equipment from damaging surges and transients
- (ISO-3 Only) 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 compatable 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

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