



Optically Isolated 7-Port USB Hub with SeaLATCH USB Ports

Part: 270U | **Model:** Seal/O-270U

Once associated only with desktop peripherals, USB I/O devices are now commonly found in industrial and OEM applications. Voltage spikes, power surges, and ground loops that affect traditional serial interfaces also affect USB devices. The Seal/O-270U is an isolated USB hub that connects up to seven USB peripherals and protects the host computer from voltages up to 1500 VAC. The Seal/O-270U is ideal for adding USB ports to a Seal/O data acquisition stack or a Relio R1000 embedded solid-state industrial computer.

The Seal/O-270U integrates Sealevel's SeaLATCH locking USB ports, which are fully compatible with standard USB cables. When used with the included USB cable with a SeaLATCH USB type B connector, the metal thumbscrew provides a secure metal-to-metal connection to the hub and prevents accidental cable disconnection. The hub's seven SeaLATCH USB type A connectors can secure USB peripherals to the hub in the same way. Order optional USB cables with SeaLATCH USB connectors under the Accessories tab, or use standard USB cables. Additionally, the Seal/O-270U's highly-retentive type B connector helps prevent unintentional separation from a standard USB cable.

The Seal/O-270U includes an industrial-grade wall-mount power supply that outputs 12VDC @ 2.5A, providing a full 500mA to each attached USB peripheral. Status LEDs on the hub indicate external power, connection to the host, and fault conditions.

Supported in Windows, Linux, and other USB aware operating systems, the Seal/O-270U requires no separate software drivers and is easy to install. Simply provide power to the hub using the included power supply, plug the hub into an available USB port with the included cable, and the hub is automatically recognized.

If you have higher isolation requirements, check out the Sealevel HUB7i with isolation to 5500 VAC, which offers the highest level of protection available from any USB hub manufacturer.

Features & Specifications

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Features

- Powered USB isolated hub provides seven downstream USB ports with 500mA available per port
- Sealevel's SeaLATCH locking USB ports provide secure connection with SeaLATCH USB cables via metal thumbscrews
- High-retention USB type B connector prevents accidental disconnection of standard USB cable
- Status LEDs indicate external power, connection to the host, and fault conditions
- USB (Universal Serial Bus) 1.1 compliant and 2.0 compatible
- Operates at full-speed 12M bps and low-speed 1.5M bps
- Supported in Windows, Linux and other USB aware operating systems
- Includes wall-mount AC power supply that outputs 12VDC @ 2.5A (Item# TR123)
- Includes 6' USB type A to SeaLATCH USB type B device cable (Item# CA356)

Specifications

Family	Seal/O
Communications Chip	USB Hub
Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Extended Temperature	Call for Options
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	USB
Max Data Distance	5 Meters
Max Data Rate	12M bps
Operating Temperature	0°C to 70°C (32°F to 158°F)
# of Ports	7
Power Connector	Screw Terminals
Power Requirement	9-30VDC @ 20W
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Upstream Isolation	1500 VAC
USB Specification	1.1 Compliant, 2.0 Compatible