

EX-1451

USB Isolation Adapter

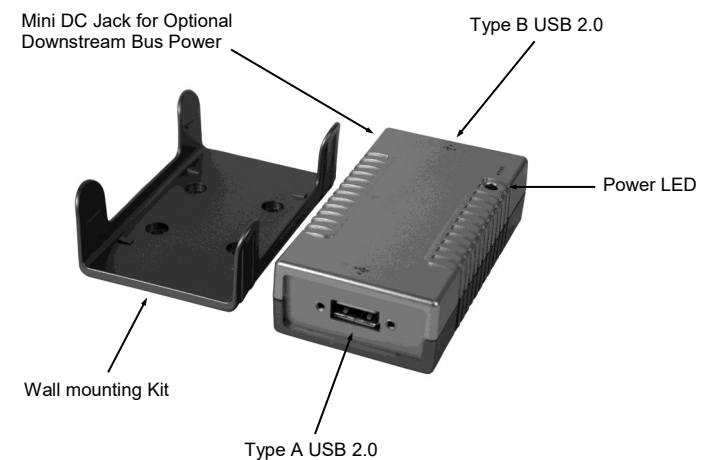
1. Introduction

Thank you for purchasing this USB Isolation Adapter. It complies with the USB2.0 Full-speed. It provides 1 isolated downstream facing port with standard type-A USB2.0 connector. It works with USB2.0 compliant devices and backward compatible with USB1.1. Its upstream port with type-B connector is fully compliant with an USB1.1 or USB2.0 host.

Features:

- ✓ Compliant with USB1.1 and USB2.0 Full-speed
- ✓ Supports Full-speed and or Low-speed Packet Protocol Sequencer for Endpoint 0/1
- ✓ Provides 1 Downstream Facing Port
- ✓ Supports Screw-Lock USB Mechanism
- ✓ Supports Wall and Optional DIN RAIL Mounting Kits
- ✓ Supports 1.5Mbps up to 480Mbps
- ✓ Supports 3000 Vdc Isolation Between Upstream and Downstream Port
- ✓ Supports Self-powered and Bus-powered Mode
- ✓ Supports DC Jack for Downstream USB Bus Power

2. Board Layout



3. Installing the Adapter

Since this Adapter supports USB bus-powered feature, most of the cases you don't need to connect any AC adapter on it. However, in some cases you may need an AC adapter to provides more bus power for your USB device, please note that the power input DC jack was located at secondary side (type-A connector):



WARNING! Don't supply the power from your PC USB host with an USB-to-DC-Jack conversion cable to the DC jack of the Isolation Adapter, it will short the primary and secondary side isolation. If you are using an AC Adapter to provide the power instead, please make sure that your AC adapter provides enough isolation capability, at least it should be bigger than 3000Vdc.

- ✓ **Use static electricity discharge precautions.**
Remove possible static discharge potential from any objects that the converter may come in contact with before installation. This can be accomplished by touching a bare metal chassis rail after you have turned off the power.
- ✓ **Locate an unused USB host port on your PC, connect USB cable from the USB host port to the Isolation Adapter's upstream port.**
- ✓ **Installing USB cable from the Isolation Adapter to the USB device**
- ✓ **Installing the Wall and Optional DIN RAIL mounting kits**
- ✓ The Adapter provides a Wall mounting kit which can be easily hold the main unit on a wall or similar places. The DIN RAIL mounting kit (optional) can be fixed under the Wall kit with 4 screws.

4. Specifications

Type	Specifications
Connectors	Upstream: Type-A USB2.0/1.1 Downstream: Type-B USB2.0/1.1
Speed	1.5Mbps up to 480Mbps
USB Signals	D+, D-
Isolation	3000Vdc
Power Consumption	5V/120mA max.
Operating Temperature	0 to 60°C (32 to 140°F)
Operating Humidity	5 to 95% RH
Storage Temperature	-20 to 85°C (-4 to 185°F)