



## Industrial Port-Powered USB 2.0 Isolator

(Part Number: USB-ISO-3)



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### ■ INTRODUCTION

The USB-ISO-3 is a rugged, port-powered, industrial-grade USB 2.0 isolator. This product optically isolates the USB host and the USB device with a 5000VDC optical isolator, which effectively protects your computer from ground loops, transient surges, remote lightning and spikes. The unit supports data rates up to 12Mbps (auto-sensing and self-adjusting) and it requires no software drivers. This industrial USB 2.0 isolator is efficiently powered from the USB bus and it requires no external power for low power-consumption applications, such as a keyboard, mouse, or flash drive. It also comes with an optional DC power input jack for high power-consumption applications, such as a USB scanner, USB hard drive, or USB printer.

### ■ FEATURES

- Industrial grade.
- USB 2.0 compatible (backward compatible with USB 1.1).
- 5000V optical isolation protects your computer from ground loops, transient surges, remote lightning and spikes.
- Plug and play (hot-pluggable), no software drivers required.
- Low and full speed data rate: 1.5Mbps and 12Mbps (auto-sensing and self-adjusting).
- Upstream short-circuit protection and class 3A contact ESD protection.
- Bus powered for low power-consumption applications, e.g. a keyboard, mouse, or flash drive.
- External 5VDC (optional) for high power-consumption applications, e.g. a USB scanner, USB hard drive, or USB printer.
- Operating temperature: -40°F to 185°F (-40°C to 85°C).
- Surface Mount Technology manufactured to RoHS and ISO-9001 standards.
- Safety: Strictly certified by SGS (Cert no. E1/2014/C0058C; E1/2014/C0059C).
- 5-year manufacturer's warranty.

### ■ SPECIFICATIONS

Compatibility:	USB 2.0 (backward compatible with USB 1.1)
Power Source:	USB bus power; External 5VDC power adapter (optional)
Optical Isolation:	5000VDC
Data Rates:	Up to 12Mbps (auto-sensing and self-adjusting)
Distances:	USB: 10ft (3m)
Connectors:	Host: 1x Type A Male; Device: 1x Type A Female
LED Indicators:	1 (Power)
Protection:	Upstream short-circuit and class 3A contact ESD protection
Dimensions (H x W x D):	2.6 x 1.5 x 0.8 in (66 x 39 x 20 mm)
Cable Length:	5.9 in (0.15 m)
Weight:	2 oz (55 g)
Operating Temperature:	-40°F to 185°F (-40°C to 85°C)
Operating Humidity:	5~95% RH (no condensation)

## ■ CONNECTIONS

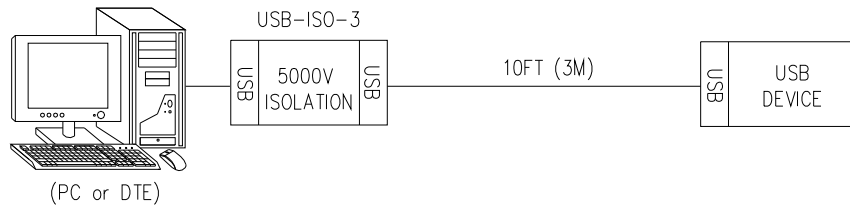



FIGURE 1: USB-ISO-3 CONNECTIONS

## ■ LED INDICATOR

	Steady: Functioning Off: Inactive
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## ■ TROUBLESHOOTING

- Be sure that the LED (orange) is lit up when the USB-ISO-3 is connected to the computer.
- Depending on the devices that it is connected to, the USB-ISO-3 operates at 12Mbps for "full-speed" devices such as printers or scanners, and 1.5Mbps for "low-speed" devices such as a keyboard or mouse.
- If there is any high current-consumption device used with the product, please connect an external 5VDC power adapter (optional) to the DC input jack.
- Please note that, although no software driver is required for the USB-ISO-3, installation of software drivers for any connected USB devices, such as USB serial converters, is required.
- Please note that the maximum current supplied per USB port is 500mA; do not connect too many USB devices to one USB port to avoid over-current problems.