



9CI-USB USB to Fiber Optic transceiver for isolated serial communications

Features

- USB-Fiber specs
 - Plug and Play
 - Win / Mac / Linux
 - No drivers needed
 - Speeds > 1 Mbps
 - Distance > 30 m
- System Power
 - USB bus powered
 - < 100 mA current
 - 5.0 V output
 - 3.3 V output
- Proto Solder Pads
 - Serial TX
 - Serial RX
 - 5.0 V in/out
 - 3.3 V out
 - Local GND
- Mechanical
 - USB Type A male
 - 45 mm length
 - 22 mm width
 - 12 mm height



Figure 1: USB Fibre



Figure 2: USB Fibre In Case



Figure 3: USB Fibre in Foam

System Description

USB-Fiber is a plug and play fiber optic data link providing galvanic isolation, long length runs over 30 meters, and high speeds exceeding 1 Mbps. It is designed to bridge systems using USB. It can also be wired in to bridge traditional serial links via solder pads.

USB-Fiber is plug and play on Windows, Macintosh, and Linux computer systems. No driver install is necessary.

To use USB-Fiber:

- 1) Plug in USB-Fiber transceivers into the two systems to be linked
- 2) Plug the dual fiber cable into each transceiver
- 3) Select or identify the USB-Fiber COM port on each system
- 4) Open the serial link and begin transmitting and receiving data

USB-Fiber plugs directly into USB Type A ports and is bus powered. Current draw is very low, permitting use on legacy and low power systems.

USB-Fiber can be used for galvanic isolation of two devices (useful for systems like Electric Vehicles), can be used for long serial links where USB or RS-232 will not work, and can be used when higher speeds in electrically noisy environments are required.

USB-Fiber comes in a drop safe, rain-tolerant IP52 zipper case and can operate from 0 C (+32 F) to +70 C (+155 F). USB-Fiber units are designed, manufactured, and assembled by 9CI in North America. For more information, email info@9ci.ca.

