

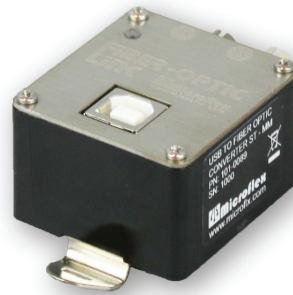
USB FIBER-OPTIC LINK

USB to Multi-Mode Fiber-Optic converter
ST Fiber Connectors
DIN Rail Mount

101-0089

Quick Start Guide

- USB 2.0 Virtual Serial Port
- Supports BAUD rates up to 115,200
- Fiber optic range of up to 4 km (2.5 mi)
- 820nm wavelength technology
- Point-to-Point transmission
- Plug-and-Play, no switches or jumpers
- 9 to 30 Vdc Supply voltage range
- Wide operating temperature range
-30 to 60°C (-22 to 140°F)




The USB Fiber-Optic Link is a simple to use, plug-and-play, USB to Multi-Mode Fiber Optic converter. When connected to a 101-0079 RS-485 Fiber-Optic Link the maximum RS-485 communications distance can be extended up to 4 km (2.5 miles) in a Point-to-Point transmission using a wide range of Multi-Mode Fiber Optic cables such as 50/125um or 62.5/125um.

The Fiber-Optic Link converter provides a simple, interface between a PC or laptop computer with a USB port and fiber optic devices.

Fiber Optic transmission offers immunity to radio and electrical interference such as EMI/RFI, transient surges, and ground loops.

The Fiber-Optic Link is equipped with an industry standard 35mm DIN rail. Allowing the converter to be quickly installed in your equipment rack, along with other DIN mounted equipment

 The Fiber-Optic Link keeps the light in the fiber turned ON when no data is transmitted. The light in the fiber turns OFF/ON in step with the data.

For an RS-485 Fiber-Optic Link order part number 101-0079.

USB

The Fiber-Optic Link comes equipped with a USB 2.0 compatible interface. USB drivers will create a virtual serial COM port and appear as a serial port to your application software. If your PC is connected to the internet the drivers will be automatically downloaded and installed when the Fiber-Optic link is first connected to a USB port.

For manual driver installation, please visit www.microflx.com/pages/drivers

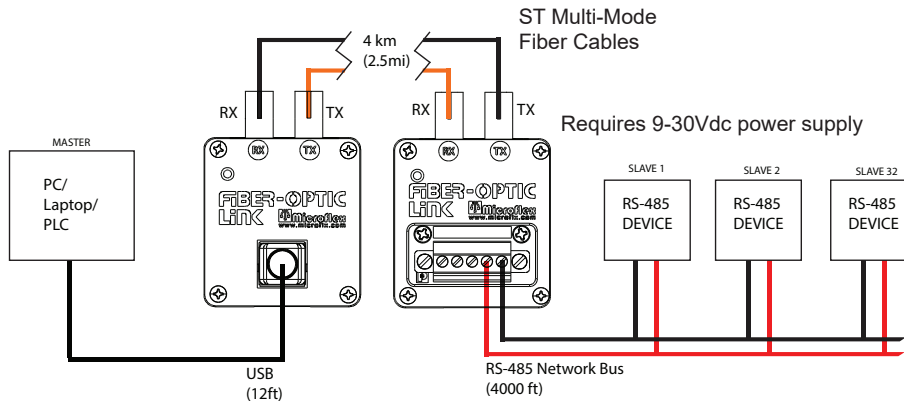
Fiber Optic Connection

The Fiber-Optic Link is equipped with ST connectors capable of working with standard Multi-Mode Fiber Optic cables such as 50/125 and 62.5/125um. The maximum length of the Fiber Optic cables should not exceed 4 km (2.5 mi).

Power Supply

Power for the converter is taken from the USB port eliminating the need for an external converter power supply.

Typical Application

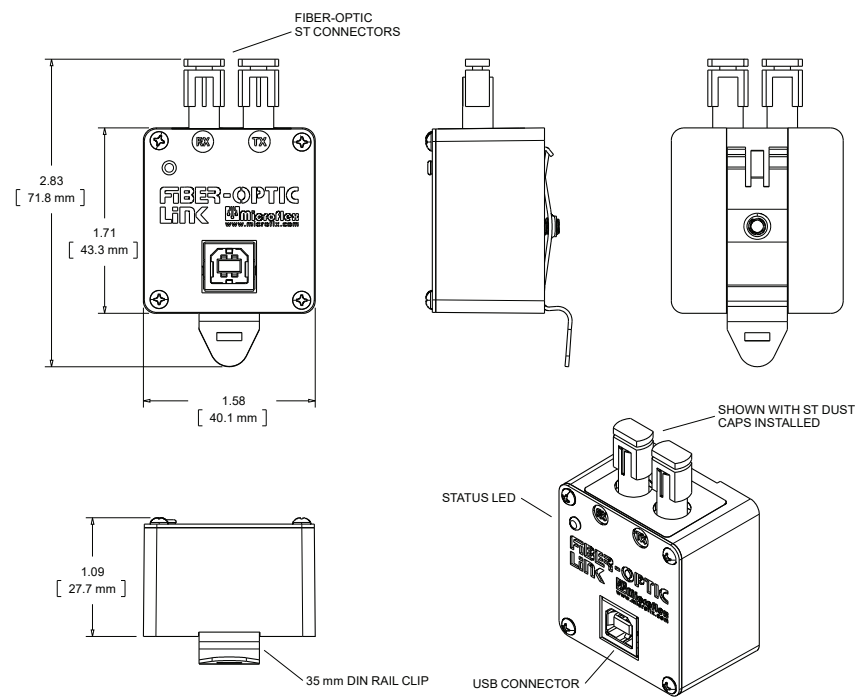


Typical application; fiber optic connection to a RS-485 network using a 101-0089 USB to Fiber-Optic Link connected to a 101-0079 RS-485 Fiber-Optic Link.

DIN Rail Mounting

The converter is designed to mount on standard 35mm EN 50022 rails. It can be snap mounted and removed from the mounting rail without tools for quick installation and servicing.

Specifications



Enclosure

Polycarbonate plastic with Stainless Steel Cover
Weight.....5 ounces
Mounting.....35mm DIN Rail Clip

Environmental

Operating Temperature.....-30°C to 60°C (-22°F to 140°F)
Storage Temperature.....-40°C to 85°C (-40°F to 185°F)
Humidity.....0 to 95% (non-condensing)

USB

Connector USB-B
CompatibilityUSB 1.1, USB 2.0, and USB 3
Active Current 80mA Max
Suspend Current Less than 600µA Typical

Fiber Optic

Type/Wavelength.....Multi-Mode/820nm
Output Power.....(-) 17 to (-) 13 Typical (-) 15dBm
Receive Sensitivity.....(-) 25.4 to (-) 24dBm
Cable.....MM Fiber Optic cable: 50/125 and 62.5/125um
Maximum Distance.....4 km (2.5 mi)
Idle StateTransmitter light ON

Status LED

Green.....Transmitting USB data
Red.....Receiving USB data

At power on the Fiber-Optic Link will have the LED turn RED when the Fiber Optic RX (Receive/In) is not connected. Once connected to another Fiber-Optic Link or another fiber optic converter with the light ON at idle the RED status LED will turn OFF.

Additional Information

For additional information refer to the 101-0089 Installation, Operation, & Specifications Manual available at www.microflex.com in a PDF format.

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