

# CrystalLink USB 2.0 Fiber

USB 2.0 Fiber Extenders



## USB 2.0 Fiber Extender

Extend your USB 2.0 high speed and USB 1.1 low and full speed devices up to 6 miles (10km) over Single-Mode fiber cable

Single-Mode and Multi-Mode models available

Designed to support high powered USB devices

Four USB ports available

Standard USB hubs can be used to increase the number of USB devices connected to a maximum of 14 (including 3 hubs).

Supports USB printers, scanners, hard drives, audio devices, web cams, game controllers, and many more USB device types

Easy installation

## Features and Benefits

- Single-Mode and Multi-Mode models available
- Supports USB 2.0 (high-speed) and USB 1.1 (low and full speed)
- Extend USB device up to:
  - 902 feet (275m) over 62.5 / 125  $\mu$ m Multi-Mode fiber
  - 1640 feet (500m) over 50 / 425  $\mu$ m Multi-Mode fiber
  - 6 miles (10km) over Single-Mode fiber
- Operates with USB 2.0 high-speed host controllers and USB 1.1 host controllers.
- Standard USB hubs can be used to increase the maximum number of connected USB devices to 14 (3 USB hubs and 11 USB devices)
- Up to 500 ma of power is available at each USB port for powering high-power USB devices
- Plug-and-Play installation, no configuration or set-up needed.
- Installation consists of:
  1. Connecting the receiver to your USB device(s)
  2. Connect the transmitter to your computer's USB port
  3. Connect the transmitter to the receiver with fiber optic cable
  4. Apply power and the installation is complete

## The CrystalLink USB Advantage . .

The CrystalLink USB Fiber extender is the extender of choice for extending your USB devices. The CrystalLink USB Fiber extender makes this possible by the use of standard Single-Mode or Multi-Mode fiber cable (depending on model). You can fully operate and control all of your USB devices from as far away as 6 miles using Single-Mode Fiber cable.

Access to your USB device is made convenient in a variety of situations. You can locate users away from hazardous environments where the USB device is located, locate devices away from areas vulnerable to theft, reduce noise and heat; increase desk and floor space.

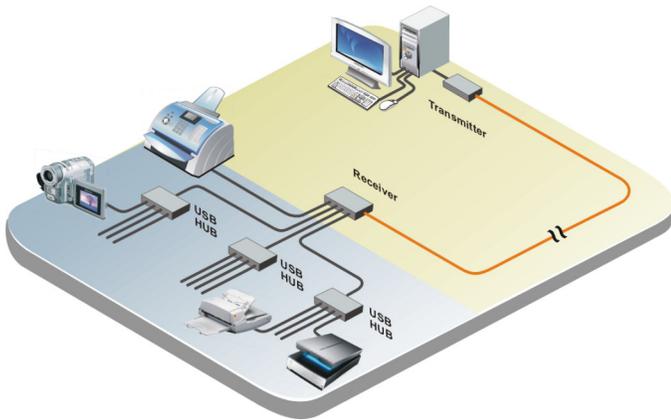
If additional USB devices are needed, you can add USB hubs to the receiver model and connect up to a total of 11 USB devices and 3 hubs.

The CrystalLink USB Fiber extender supports all USB devices. It is ideal for use in industrial control areas, digital signage, connecting web cameras, USB device printing, scanning and storage.

Supports all major operating systems including: Windows<sup>®</sup>, Mac<sup>®</sup>, and Linux<sup>®</sup>

Supports USB printers, scanners, web cameras, USB hard drives, flash drives, MP3 players and many more USB 1.1 and 2.0 devices.

## Typical Application



Control your USB devices from up to 6 miles away

**Overview** The CrystalLink USB Fiber extenders are usually sold in pairs, a transmitter unit and a receiver unit. The transmitter unit connects to your computer's USB port and the receiver unit connects to 4 USB 1.1 or 2.0 devices. The transmitter and receiver unit are connected together with up standard fiber optical Single-mode or Multi-Mode cable (depending on model). The CrystalLink USB Fiber supports USB hubs for adding additional USB devices.

Each USB output port on the receiver can supply up to 500 ma of power to the connected USB device.

**Installation** Installing the CrystalLink USB Fiber extender is as simple as connecting the computer's USB port to the transmitter unit, connecting up to 4 USB 1.1 or 2.0 devices to the receiver unit and connecting the local and remote units together with Single-Mode or Multi-Mode fiber cable.

**Expanding CrystalLink USB Fiber** In addition to extending four USB devices, you can add up to 3 standard USB 4-port hubs to access additional USB devices. Connecting 3 USB hubs to the receiver will increase the number of USB devices that can be connected to a maximum of 11 devices and 3 hubs.

### Part Numbers

CLK-4U2FS-10KM 4 port USB 2.0 Extender Kit (Single-Mode model)  
 CLK-4U2FM-500M 4 port USB 2.0 Extender Kit (Multi-Mode model)

## Specifications

Dimensions	Width	Depth	Height
Transmitter and (in) Receiver	3.94 100	2.99 76	1.02 26
	(mm)		

### Shipping Weight

2.2 lbs (1.0 Kg)

### Distance

902 feet (275m) over 62.5 / 125  $\mu$ m Multi-Mode fiber  
 1640 feet (500m) over 50 / 425  $\mu$ m Multi-Mode fiber  
 6 miles (10km) over 9  $\mu$ m Single-Mode fiber

### Connectors

#### Local

USB Type B  
 Interconnect - RJ45  
 Power - Optional +5VDC

#### Remote

4 - USB Type A  
 Interconnect - RJ45  
 Power - Required +5VDC

### Receiver output

500 ma per USB output port (4)

### Indicators

#### Transmitter

Power - Blue LED  
 Link - Green LED  
 Host - Green LED  
 Activity - Amber LED

#### Receiver

Power - Blue LED  
 Link - Green LED  
 Host - Green LED  
 Activity - Amber LED  
 Device - Green / Orange LED

### Environment

Operating Temp. 32°F-122°F (0°C-50°C)  
 Storage Temp. -4°F - 158°F (-20°C-

70°C)

Humidity 20% - 80% non-condensing

### Approvals

FCC Class B, CE Class B, IC Class B



Rear View

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