



USB Fiber Extender

Extend your USB peripherals up to 33,000 feet from the controlling computer using singlemode fiber, 1,650 feet using multimode

Designed to support high powered USB devices

Connect four USB devices to the receiver unit

Standard USB hubs can be used to increase the number of USB devices connected

Easy installation

Supports USB 1.1 and USB 2.0 devices

Features and Benefits

- Supports USB 1.1 (low and full speed) and USB 2.0 (high-speed)
- Extend USB devices up to:
33,000 feet (10km) over singlemode fiber,
1,650 feet (500m) over multimode fiber
- 4-USB ports on remote unit
- Standard USB hubs can be used to increase the number of connected 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 transmitter to your computer's USB port
 - 2- Connecting the receiver to a USB devices
 - 3- Connect the transmitter to the receiver with fiber cable
 - 4- Apply power to both the transmitter and receiver and installation is complete

The CrystalLink *fiber* Advantage . . .

The CrystalLink USB Fiber extender is the extender of choice for extending a USB device over a great distance. The CrystalLink USB fiber extender makes this possible by the use of fiber optic cable. You can fully operate and control a USB device from as far away as 33,000 feet using singlemode fiber cable.

Access to your USB devices is made convenient in a variety of situations.

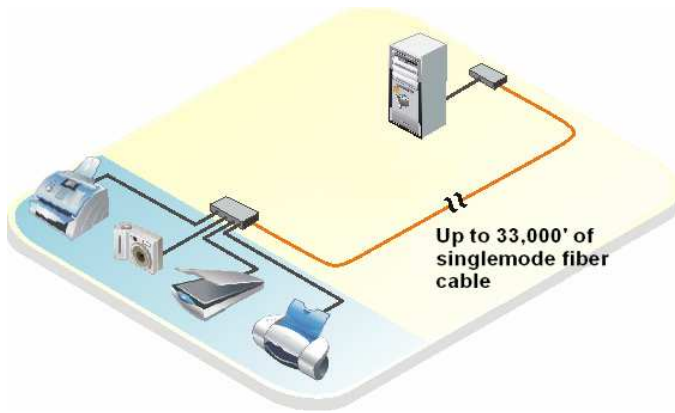
You can locate users away from hazardous environments where the USB device is located, Locate devices away from areas vulnerable to theft, reduce noise and heat; increase desk and floor space.

The host computer must be equipped with an EHCI (USB 2.0) host controller. OHCI/UHCI (USB 1.1) host controllers are not supported.



Extend your USB device up to 33,000 feet over industry standard fiber cable

Typical Application



Extend your USB device over Fiber cable

Overview The CrystalLink USB Fiber extenders are usually sold in pairs, a local unit and a remote unit. The local unit connects to your computer's USB port and the remote unit connects to four USB 1.1 or 2.0 devices. The Local and remote unit are connected together with fiber optic cable.

Installation Installing the CrystalLink USB fiber extender is as simple as connecting the computer's USB port to the local unit, up to four USB 1.1 or 2.0 devices to the remote unit and connecting the local and remote units together with fiber cable. Connect the remote USB devices (4) to the remote USB ports. Connect a DVD burner, USB cameras, or other USB devices. Each USB port on the remote unit can supply up to 500 ma of power.

Expanding CrystalLink with a USB hub In addition to extending to four USB devices, you can add a standard USB hub to the remote unit to access additional USB devices. Connecting a single 4-port hub to one of the remote USB ports will reduce the available power for the 4 additional ports to 125ma per port.

Part Numbers

CLK-4U1FM-1650	USB 1.1 - Multi Mode – 4 port
CLK-4U1FS-30K	USB 1.1 - Single mode – 4 port
CLK-4U2FM-1650	USB 2.0 - Multi Mode – 4 port
CLK-4U2FS-30K	USB 2.0 - Single mode – 4 port

Specifications

Dimensions	Width	Depth	Height	Weight
Local / Remote (in)	4.25	3.31	1..31	0.6 lbs (ea)
(mm)	108	84.1	33.3	0.27 kg (ea)

Distance 1650 feet (500m) Multimode 50/125 μ m
33,000 feet (10km) Singlemode 9/125 μ m

Connectors
Local 1 - USB Type B
Interconnect – Fiber duplex LC
Remote 4 - USB Type A
Interconnect – Fiber duplex LC

Power (2) +5V DC / 3A

Output 4 x 500ma
power at each
USB port

Environment Operating Temp. 40°F-104°F (4°C-40°C)

Approvals FCC, CE Class A



Rear view 4-port

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