



- ▶ Extends USB2.0 devices up to 1640ft (500m) on multimode fiber, and up to 6.2 miles (10km) on singlemode fiber cable
- ▶ Supports transparent USB extension at speeds up to 480Mbps
- ▶ Support for new USB3.0 host controllers and devices
- ▶ Integrated 4-port hub supports up to 26 USB devices at the receiver end
- ▶ A true plug-and-play device with no controllers, configuration or software required

Features and Benefits

- Supports Fiber cable distances up to 330 feet (100 meters) at speeds up to 480Mbps
- Uses a duplex multimode or singlemode Fiber cable secure transmission
- Operates with all USB1.1/USB2.0 hosts and with USB3.0 hosts at up to 480Mbps
- Plug and play, no software drivers or system configuration required
- Supports all major Operating Systems: Windows®, MAC OS X®, Linux®
- Supplies up to 1 Amp per USB port, or 2.5 Amps total shared on all four ports
- Rackmount options include brackets, plates, rack shelf and DIN rail mounting
- Robust ESD and EFT immunity for industrial environments
- Receiver unit includes one external power supply, the transmitter unit is powered from the host USB port
- Made in North America

Product Overview

The CrystalLink USB2.0 Fiber is a versatile extender device that can be used in a variety of applications. It is a great way to locate your peripherals where they are convenient to the user or to secure the USB host computer from unwanted access, noise, vibration and heat

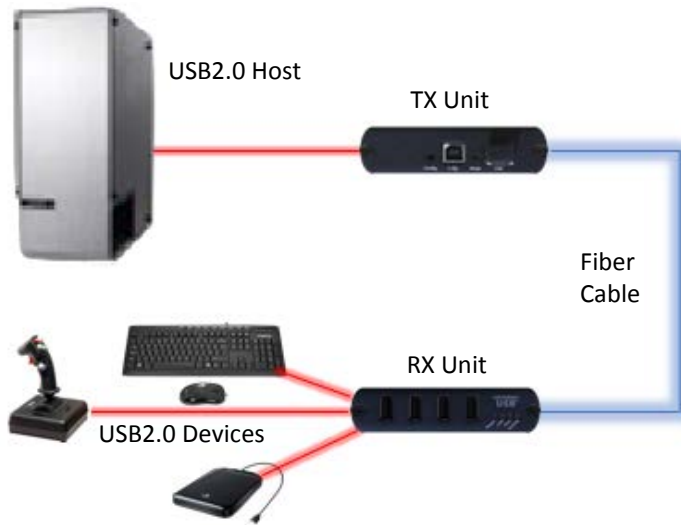
Individual USB devices such as a keyboard, mouse, touchscreen, disk drive, printer, joystick, hard drive, or other devices can be located at distances up to 6.2 miles from the host computer. Up to 26 USB devices can be connected using four self-powered USB hubs.

The CrystalLink USB2.0 Fiber extension system consists of two units: a transmitter and a receiver. The Transmitter connects directly to your CPU's USB port. The Transmitter and Receiver are linked via Fiber cable and your USB devices are directly connected to the Receiver unit.

For added versatility, the CrystalLink USB2.0 Fiber can be used to connect multiple remote USB devices through a KVM switch to a number of host computers.

Several cabinet rackmount and table mount options are available.

Typical Application



The CrystalLink USB2.0 Fiber is ideal for use in commercial, industrial, residential, medical, data center, and other environments where multiple USB devices need to be connected at distances up to 6.2 miles (10km) away from a host PC.

Cable requirements The Fiber extension cable can be two strands of duplex multimode or singlemode and terminated with LC connectors.

Installation The CrystalLink USB2.0 Fiber extender is simple to install. Connect the transmitter device to a free USB port on the host PC. Connect the transmitter and receiver units together with the Fiber link cable and then connect your USB devices to the receiver end. The CrystalLink USB2.0 Fiber extender is ideal for use between buildings or for outdoor extension requirements.

Adding USB hubs To connect more than 4 devices at the receiver end, just add a powered USB hub to one of the available ports. Up to four hubs can be added with a maximum of 26 attached USB devices. The available current on the receiver unit is 1 Amp per USB port, or 2.5 Amps total shared on all four ports. If a USB device does not install correctly, then make sure that the latest USB driver is installed on the host PC.

Specifications

Dimensions	3.9" x 3.0" x 1.0" (100 x 76 x 26mm)
Weight	2.0 lb (0.9 kg)
Power	100-240 VAC 50-60Hz One external +24V DC, 1A for receiver unit only, Transmitter is USB powered
Receiver current	1 Amp per USB port or 2.5 Amps total shared on 4 ports
Distance	1640ft (500m) on OM2+ multimode or 900ft (275m) on OM1 multimode cable Up to 6.2 miles (10km) singlemode fiber cable
USB host	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1) USB3.0 host supported at up to 480Mbps
USB hubs	Up to four USB hubs and 26 devices total
USB speed	High-Speed (USB 2.0) at 480Mbps Full-Speed (USB 1.1) at 12 Mbps
Connectors	Transmitter: USB host: USB Type B connector Link: SFP duplex fiber LC type connector Receiver: USB device: 4 x Type A connectors Link: SFP duplex fiber LC type connector
Link cable	Fiber OM1 62.5/125µm to 900ft (275m) or OM2 50/125µm to 1640ft (500m) Singlemode fiber to 6.2 miles (10km)
Status LED's	Power (blue), Link (green), Host (green), Activity (amber). Same LED's on TX and RX
Environment	Operating temp: 32°F – 122°F (0°C – 50°C) Storage temp: -4°F – 158°F (-20°C – 70°) Rel. humidity: 20% – 80%, non-condensing
Approvals:	FCC (Class B), CE (Class B), RoHS2 (CE)

Part numbers

CLK-4U2FMB-500M	CrystalLink USB2.0 Multimode Fiber Transmitter, Receiver, and power supply
CLK-4U2FSB-10KM	CrystalLink USB2.0 Singlemode Fiber Transmitter, Receiver, and power supply
RM-UD/CLKUSB	Mounting "L" bracket for mounting TX or RX unit on a shelf, under desk, or flat surface. (Not for 19" rack)
CAB-USBAB005	USB-AB cable, 6ft (2.0m)
CAB-USBAB010	USB-AB cable, 10ft (3.0m)

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datasheet-crystallink-usb2.0-fiber-revb-2018-02-27

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