CrystalLink USB2.0/Flex Power



Features and Benefits

- Supports CATx cable distances up to 330 feet (100 meters) at speeds up to 480Mbps
- Unique Flex Power feature requires only a single external power supply at either end
- Uses standard solid core CATx cable, CAT5e, or better
- Operates with USB1.1 and USB2.0 hosts
- Plug and play, no software drivers required
- Supports all major Operating Systems: Windows[®], MAC OS X[®], Linux[®]
- Remote extender provides up to 500mA power to a single attached USB device
- Attach up to 4 powered USB hubs for additional remote USB device support
- Mounting slots present on both units to facilitate rack mounting using cable tie wraps
- Robust ESD and EFT immunity for industrial environments
- Made in North America

- Extends USB2.0 and USB1.1 devices up to 330ft (100m) over CATx cable
- Supports all USB devices at speeds up to 480Mbps
- Single power adapter can connect at either end
- Add a powered USB hub to increase the number of remote USB devices supported
- Robust ESD/EFT immunity for industrial environments
- Uses a single solid-core CATx cable

Product Overview

The CrystalLink USB2.0/Flex Power is a versatile extender device that can be used in a variety of applications. It is a great way to put your peripherals where they are convenient to the user or to secure the USB host from unwanted access.

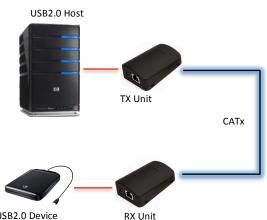
Individual USB devices such as a keyboard, mouse, touchscreen, disk drive, printer, joystick, communication device, or other device can be located at a distance of up to 330 feet (100 meters) from the host computer. Additional USB devices can be connected by using up to four self-powered USB hubs.

The CrystalLink USB2.0/Flex Power 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 CATx solid core cable and your USB device is directly connected to the Receiver unit.

Only one external power supply is required to operate this device.



Typical Application



USB2.0 Device

The CrystalLink USB2.0 Dual-Port is ideal for use in commercial, industrial, residential, medical, data center, and other environments where USB devices need to be connected at distances up to 330 feet (100m) away from a host PC.

Cable requirements The CATx extension cable can be CAT5e, 6, or 7 UTP/STP cable. The performance is optimized for use with solid core cable. Stranded (patch) cable and the use of patch panels will reduce the maximum operational distance. STP cable with grounded metal hoods is recommended.

Installation The CrystalLink USB2.0/Flex Power 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 CATx link cable. Connect one USB device to the Receiver end. You can choose at which end to place the single external power adapter. Power is transmitted along the CATx cable to the unpowered unit. Do not use CrystalLink USB2.0/Flex Power between buildings or for outdoor extension requirements.

Adding USB hubs If you need to connect more than one USB device at the Receiver end, simply add a powered USB hub. Up to four hubs can be added in a chain with a maximum of ten attached USB devices. The USB port on the Receiver unit outputs 500mA power.

USB device operation When the host PC is powered on and a USB device is connected to the Receiver unit, the USB device recognition and installation process should be displayed on the monitor. If the USB device does not install correctly, then make sure that the latest USB driver is installed on the host PC.

Specifications

Dimensions	2.25" x 3.35" x 1.1"
(W x D x H)	57 x 85 x 28 mm
Weight	1.35 lb (0.62 kg)
Power	100-240 VAC 50-60Hz
	One external adapter, +24V DC, 1A, 24W
Distance	330' (100m)
USB host	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)
USB hubs	Up to four USB hubs, ten devices total
USB speed	High-Speed (USB 2.0) at 480Mbps
	Full-Speed (USB 1.1) at 12 Mbps
	Low-Speed (USB 1.1) at 1.5 Mbps
Connectors	Transmitter:
	USB host: USB Type B receptacle
	Link: RJ45 jack
	Power: Barrel jack (24VDC)
	Receiver:
	USB device: Type A receptacle
	Link: RJ45 jack
	Power: Barrel jack (24VDC)
Link cable	CATx, UTP/STP, EIA/TIA 568A/B
	CAT 5, 5e, 6, 7, solid cable preferred
Receiver	2 x 500mA maximum
current	
Status	Link status: Green LED 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, CE, RoHS

Part numbers

CLK-1U2TP- 100M/FP	CrystalLink USB2.0 Flex Power Kit, Transmitter, Receiver, and power supply
CLT-1U2TP- 100M/FP	Transmitter only
CLR-1U2TP- 100M/FP	Receiver only

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