



- ▶ Extends two or more USB2.0 and USB1.1 devices up to 330ft (100m) over CATx cable
- ▶ Supports USB devices at speeds up to 480Mbps
- ▶ Power required at Transmitter end only
- ▶ 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

Features and Benefits

- Extends full speed USB 1.1 up to 330 feet (100 meters) over CATx cable at speed up to 480Mbps
- Supports High speed USB 2.0 (480Mbps), full speed USB 2.0 and 1.1 (12Mbps), and low speed USB 1.1 (1.5 Mbps)
- Remote Receiver powered via CATx link, requires no external power supply
- Uses standard solid core CAT5e or better cable, including shielded twisted pair cable
- Supports USB1.1 and 2.0 hosts
- Plug and play, no software drivers required
- Supports all major operating systems, including Windows, Mac OS X, Linux
- Receiver unit supplies up to 500mA power to each USB port
- Connect up to 4 self-powered USB hubs to the Receiver to support more USB devices
- Robust ESD and EFT immunity for industrial environments
- Made in North America

Product Overview

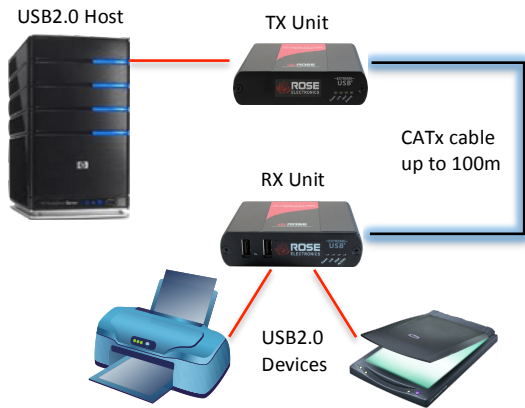
The CrystalLink USB2.0 Dual-Port is a versatile extender system that can be used in many different applications. It is a great way to put your USB devices where they are convenient to the user or to secure the USB host from unwanted access.

The CrystalLink USB2.0 Dual-Port allows any two USB devices, such as keyboards, mice, touchscreens, disk drives, printers, joysticks, communication devices, and others to be located at distances up to 330 feet (100 meters) from the host computer. Additional USB devices can be connected using up to four self-powered USB hubs.

The CrystalLink USB2.0 Dual-Port extension system consists of two units, a Transmitter and a Receiver. The Transmitter connects directly to a computer's USB port. The Transmitter and Receiver are linked via CATx solid core cable and USB peripheral devices are directly connected to the Receiver unit.

One external power supply is required for the Transmitter unit. The remote Receiver is powered by the Transmitter via the CATx link cable.

Typical Application



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 CrystalLink USB2.0 Dual-Port performs best 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. Do not use CrystalLink USB2.0 Dual-Port between buildings or for outdoor extension requirements.

Installation The CrystalLink USB2.0 Dual-Port extender is simple to install. Apply power to the Transmitter and connect it to a free USB port on the host PC. Connect the Transmitter and Receiver units with CATx cable, and then connect one or two USB devices to the Receiver. No power supply is required at the Receiver.

Adding USB hubs If you need to connect more than two USB devices to the Receiver, simply add one or more self-powered USB hubs. Up to four hubs can be added in a chain, allowing a maximum of 11 total USB devices connected to the Receiver.

Operation When the host PC is powered on and USB devices are connected to the Receiver unit, the USB device recognition/installation process

Specifications

Dimensions (W x D x H)	3.94" x 2.99" x 1.02" 100 x 76 x 26 mm
Weight	2.2 lb (1 kg)
Power	100-240 VAC 50-60Hz One external adapter, +24V DC, 1A, 24W
Distance	Up to 330ft (100 meters)
USB host	EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)
USB hubs	Up to four USB Hubs, 11 devices total
USB speed	High speed USB 2.0 at 480Mbps Full speed USB 1.1 at 12Mbps Low speed USB 1.1 at 1.5Mbps
Connectors	Transmitter: USB host: USB Type B receptacle Link: RJ45 jack Power: Barrel jack (24VDC) Receiver: USB device: 2 x Type A receptacle Link: RJ45 jack Power: from TX unit
Link cable	CATx, UTP/STP, EIA/TIA 568A/B CAT 5, 5e, 6, 7, solid cable preferred
Receiver current	2 x 500mA maximum
Status	Transmitter/Receiver: Unit power: Blue LED Link status: Green LED Host status: Green LED Activity: Amber LED Receiver: USB Device: Green LED (On), Orange LED (Overpower)
Environment	Operating temp: 32°F – 122°F (0°C – 50°C) Storage temp: -4°F – 158°F (-20°C – 70°C) Rel. humidity: 20% – 80%, non-condensing

Part numbers

CLK-2U2TP-100M/LP	CrystalLink USB2.0 Dual-Port extender Kit, Transmitter, Receiver, and power supply
RM-CL/USB	Shelf, wall, or under desk bracket



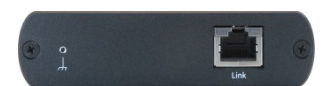
Transmitter front



Transmitter back



Receiver front



Receiver back

WWW.ROSE.COM ▪ **sales@rose.com** ▪ **(800) 333-9343**

Rose Electronics ▪ 10707 Stancliff Road ▪ Houston, Texas 77099
Rose USA (281) 933-7673 ▪ Rose Europe +49 (0) 2454 969442
Rose Asia +65 6324 2322 ▪ Rose Australia +61 (0) 421 247083

datasheet-crystallink-usb2.0-dual-port.pdf ▪ 2017-11-17

ROSE
ELECTRONICS
WWW.ROSE.COM