



- Extends two low-speed (1.5Mbps) and full-speed (12Mbps) devices up to 130ft (40m) over CATx cable.
- Up to 275ft (85m) may be achieved with USB-HID Keyboard and Mouse extension.
- Add a powered-USB Hub to increase the number of remote USB devices supported.
- Robust ESD/EFT immunity for industrial environments
- No external power required for this product

## CrystalLink USB1.1 Dual-Port Features

- Supports CATx cable distances up to 130 feet (40 meters) for full-speed USB1.1
- Can extend two USB low-speed HID devices such as a Keyboard or Mouse up to 275 feet (85 meters)
- Will also extend USB2.0 devices, but at USB1.1 speeds
- Supports full-speed (12Mbps) or low-speed (1.5Mbps) USB devices
- Interface powered Transmitter Unit, and self-powered Receiver Unit
- Plug and Play. No software drivers required
- Supports all major Operating Systems: Windows, MAC OS X, Linux
- Remote extender provides up to 400mA power to attached USB devices
- Attach up to 3 powered USB hubs for additional remote USB device support
- Robust ESD and EFT immunity for industrial environments
- Made in North America

## Product Overview

The **CrystalLink USB1.1 Dual-Port** is a versatile extender device that can be used in multiple different applications. It's an essential tool for any business or enterprise, commercial or industrial that may need to extend USB1.1 devices (or USB2.0 at low/full speed) on a temporary or permanent basis. The **CrystalLink USB1.1 Dual-Port** extends up to 130 feet (40 meters) over CATx UTP/STP cable. Individual USB devices such as a Keyboard and Mouse, USB thumb-drive, USB Printer and USB Joystick can be extended away from the host PC using the **CrystalLink USB1.1 Dual-Port** extender. Additional USB devices can be connected using a powered USB hub.

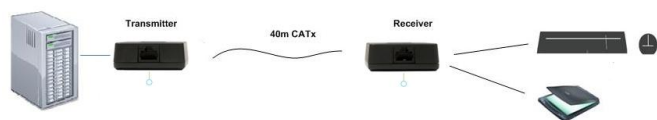
The **CrystalLink USB1.1 Dual-Port** extension system consists of two units, a transmitter and a receiver. The transmitter connects directly to your CPUs' USB port. The transmitter and receiver are linked via CATx solid core cable and your two USB devices are directly connected to the receiver unit.

No external power is required to operate this device.

## CrystalLink USB1.1 Applications

The **CrystalLink USB1.1 Dual-Port** is ideal for use in commercial or industrial environments, or in a computer room where USB devices need to be connected at short distances away from a host PC.

## Installing CrystalLink USB1.1 Dual-Port



The **CrystalLink USB1.1 Dual-Port** extender is simple to install. Connect the Transmitter device to a free USB port on the host PC. Connect the Transmitter and Receiver units with the CATx link cable, and then connect two USB devices to the Receiver end.

No power supplies are required ! The **CrystalLink USB1.1 Dual-Port** draws the required power from the USB host interface.

**Adding USB Hubs** If you need to connect more than 2 USB devices at the Receiver end, simply add a powered USB hub. Up to 3 Hubs can be added in a chain. Each Hub will reduce the maximum CATx extension cable distance by approximately 42ft (13m).

**USB Device Operation** When the host PC is powered on and a USB device is connected to the Receiver unit, the USB “device recognition/installation” process should be displayed on the monitor. If the USB device does not install correctly make sure the latest USB driver is installed on the host PC. Alternatively, add a powered USB hub between the device and the Receiver unit.

**CATx Cable Requirements** The CATx extension cable can be CAT5e, 6 or 7, UTP/STP cable. The **CrystalLink USB1.1 Dual-Port** 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.

Do not use **CrystalLink USB1.1 Dual-Port** between buildings or for outdoor extension requirements.

## Specifications

| Dimensions          | Width   | Length    | Height    |
|---------------------|---|-----------|-----------|
| Transmitter (in/mm) | 2.17 / 55   | 3.34 / 85 | 0.87 / 22 |
| Receiver (in/mm)    | 2.17 / 55   | 3.34 / 85 | 0.87 / 22 |
| Distance            | USB1.1 - 130ft (40m)<br>USB-HID - 275ft (85m)   |           |           |
| USB Device Support  | High-speed (USB2.0) at full-speed (USB1.1) rates<br>Full-speed devices (USB2.0 & USB1.1)<br>Low-speed devices (USB2.0 & USB1.1) |           |           |
| USB Hub Support     | Supports up to 3 USB Hubs in a chain. Total extension distance will reduce with each hub added.                                 |           |           |
| USB Host Support    | EHCI (USB2.0) and OHCI/UHCI (USB1.1)  |           |           |
| Local Connectors    | 1* USB Type B, 1*RJ45   |           |           |
| Remote Connectors   | 2* USB Type A 1*RJ45  |           |           |
| Interconnect Cable  | RJ45 - CATx, UTP/STP, EIA/TIA 568A/B<br>CAT 5, 5e, 6, 7. Solid cable  |           |           |
| Power               | Local - From PC via USB<br>Remote - from Transmitter unit   |           |           |
| Max Current at RX   | 400mA at the Receiver, when the TX unit is supplied with 800mA  |           |           |
| Environmental       | Temp - 32°F - 122°F (0°C - 50°C)<br>Humidity: 20%-80%, relative humidity, non-condensing  |           |           |
| Approvals           | FCC, CE, ESD, EFT, RoHS, CPSIA  |           |           |

## Part Number

|               |                                |
|---------------|--------------------------------|
| CLK-2U1TP-40M | CrystalLink USB1.1 (Dual Port) |
|---------------|--------------------------------|



CrystalLink USB1.1 Dual Port – Transmitter Unit



CrystalLink USB1.1 Dual Port – Receiver Unit