CrystalLink USB2.0 Dual-Port

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)
- Uses a single external 24V 1A DC power supply, connected at either the transmitter or receiver end
- Uses standard solid core CAT5e or better cable, including shielded twisted pair cable
- Supports USB1.1 and 2.0 hosts as well as USB3.0 host controllers and devices up to 480Mbps
- Plug and play, no software drivers required
- Supports all major operating systems, including Windows, Mac OS X, Linux
- Receiver unit supplies up to 1 Amp power to each USB port or 1.5 Amps when shared between both USB ports
- 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 operation of the CrystalLink USB2.0 dual-port extender, located at either the transmitter or receiver end.
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.

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 26 total USB devices connected to the receiver.

Operation  Display of the USB device recognition and installation process on the monitor indicates a successful installation and the USB devices are ready.

Specifications

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<tr>
<th>Specifications</th>
<th>Details</th>
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| Dimensions         | 3.4" x 3.0" x 1.0"  
87 x 75 x 26 mm          |
| Weight             | 1.67 lb (0.76 kg)                                                     |
| Power              | 100-240 VAC 50-60Hz  
One external adapter, +24V DC, 1A                               |
| Receiver current   | 1 Amp per port or 1.5 Amps total                                      |
| Distance           | Up to 330ft (100 meters)                                              |
| 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 12Mbps  
Low speedUSB 1.1 at 1.5Mbps                                     |
| Connectors         | Transmitter: USB host: USB Type B connectors  
Link: RJ45 jack  
Receiver: USB device: 2 x Type A connectors  
Link: RJ45 jack |
| Link cable         | CATx, UTP/STP, EIA/TIA 568A/B  
CAT 5, 5e, 6, 7, solid core cable preferred                      |
| 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°C)  
Rel. humidity: 20% – 80%, non-condensing                       |
| Approvals          | FCC (Class B), CE (Class B), RoHS2 (CE)                               |

Part numbers

<table>
<thead>
<tr>
<th>Part numbers</th>
<th>Description</th>
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<tbody>
<tr>
<td>CLK-2U2TPB-100M/FP</td>
<td>CrystalLink USB2.0 Dual-Port extender kit, Transmitter, Receiver, and power supply</td>
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<tr>
<td>RM-UD/CLKU2F</td>
<td>Shelf, wall, or under desk bracket</td>
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<tr>
<td>CAB-USBAB005</td>
<td>USB-AB cable, 6ft (2.0m)</td>
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<tr>
<td>CAB-USBAB010</td>
<td>USB-AB cable, 10ft (3.0m)</td>
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