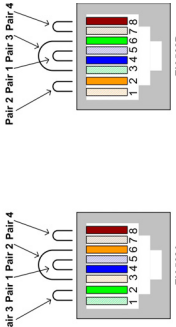


Specifications

Environment	USB 1.1 Peripherals
Devices	Desktop or Laptop computers
Transmission	Transparent to the user
Bandwidth	1.5 Mbps and 12 Mbps (USB Low-Speed and Full-Speed)
Input Impedance	USB: 90 ohms
Output Impedance	Cat5: 100 ohms
Connectors: Transmitter	Host Side: USB Type A male connector Link: RJ-45 (Cat5e)
Connectors: Receiver	Link: RJ45 shielded (Cat5e) Device Side: Four (4) USB ports <i>USB cables not included.</i>
Max. Distance	150 ft (46m)
RJ45 Pin Configuration <i>Reverse Polarity Sensitive. Use EIA/TIA 568 A or B, straight-through wiring.</i>	 <p>The diagram shows two RJ45 pin configurations: EIA568A (straight-through) and EIA568B (reverse polarity). In EIA568A, Pin 1 (R) is green, Pin 2 (T) is brown, Pin 3 (R) is blue, Pin 4 (R) is orange, Pin 5 (T) is green, Pin 6 (T) is brown, Pin 7 (R) is blue, and Pin 8 (T) is orange. In EIA568B, Pin 1 (R) is brown, Pin 2 (T) is blue, Pin 3 (R) is green, Pin 4 (R) is orange, Pin 5 (T) is brown, Pin 6 (T) is blue, Pin 7 (R) is green, and Pin 8 (T) is orange.</p>
Cable	Category 5e unshielded twisted pair cables or better required.
Power Supply	110-240V/5VDC/2.6A Removable AC blades included for North America, Continental Europe & UK 5VDC power jack
LED Indicators	Device Side: (1) Link Led and (1) Power LED
Temperature	Operating: 32° to 105° F (0° to 40° C). Storage: 15° to 160° F (-10° to 70° C).
Enclosure	Black, ABS fire retardant plastic
Dimensions	Receiver: 2.4" x 2.25" x 1.0" (6.1 x 5.5 x 2.5 cm) Transmitter: 1.9" x 1.0" diameter (4.8 x Ø2.5 cm), plus 7.5" (19 cm) USB cable.
Weight	0.6 lbs/0.3 kg Total
Compliance	Regulatory: FCC, CE, RoHS
Warranty	2 years
Order Information	500070 USB 4-Port Extender Kit



USB 4-Port Extender Kit (500070) Quick Installation Guide

Overview

The MuxLab USB 4-Port Extender Kit (500070) allows USB equipment to be connected up to 150 ft (46 m) at full-speed (12 Mbps) in a point-to-point configuration. By contrast, standard USB connections are limited to 16 ft (5 m). The kit comes with one Transmitter and one Receiver that uses a single Cat5e unshielded twisted pair (UTP) in a structured cabling system. The receiver is a four-port USB hub that supports up to four self-powered USB devices. It supports up to four bus-powered USB devices when used with the included power supply.

Applications for the USB 4-Port Extender Kit include boardroom, classroom and residential setups, surveillance, home automation, and remote data logging systems.

Pre-Installation Check

Identify the connectors on the Transmitter and Receiver as indicated on the product labels.



Tel.: (514) 905-0588 Fax: (514) 905-0589
Toll Free (North America): (877) 689-5228
E-mail: videocase@muxlab.com URL: www.muxlab.com

Installation

Verify that the distance between the USB transmitter and receiver are within MuxLab specifications (150 ft / 46m).

Host-Side Installation

Install the host-side transmitter as follows:

1. Connect the Host side transmitter to the computer's USB port.
2. Connect a Cat5e (or higher) grade UTP cable to the RJ-45 connector on Transmitter.

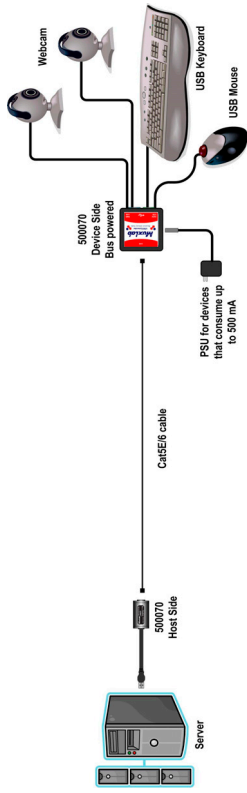
Device-Side Installation

Install the device-side receiver as follows:

1. Connect the Receiver to the USB Peripherals with USB-compliant cables.
2. Connect the Cat5e cable to the RJ-45 connector of the Receiver. If the computer is powered on, the "Link" LED will be ON.
3. Connect the 5 VDC power supply first to the Receiver and then plug the power supply into an AC power outlet (mains plug). If power is available, the green power LED will be ON.

In some cases, power from the PC's USB port may be sufficient to run up to four self-powered USB devices or one or two low-power USB devices such as a mouse and a keyboard. However, we recommend that you always connect the power supply included with the kit to the receiver for best performance.

The following diagram shows the final configuration.



Troubleshooting

The following table describes some of the symptoms, probable causes, and possible solutions in respect to the installation of the USB 4-Port Extender Kit. If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).

Symptom	LED Power	LED Link	Probable Cause	Possible Solutions
USB Peripheral does not work	ON or OFF	OFF	Faulty wiring	Check continuity. Check the Cat5 cable is not damaged and the connectors are properly crimped (straight-through wiring is required). Verify that the host-side is properly plugged in the USB port and that the computer is ON.
			Computer does not recognize the USB Peripheral	Try connecting the peripherals directly to the computer to ensure that they work correctly. Try plugging the transmitter into a different USB port (both in front and behind the computer). Connect the power supply included with the kit to the receiver.
				Check that the length of the cable run is within specifications (150 ft / 46m).
Power supply is plugged in, but the "power" LED is not on	OFF	ON or OFF	No power	Check for the availability of power at the AC power outlet. Plug a lamp into the outlet.
			Wrong power supply	Ensure that you are using the 5V power supply that is included with the kit.
"Not enough power" error message	OFF	ON	The supplied power supply is not connected	Connect the power supply included with the kit to the receiver.