

# USB Extenders

## USB 1.1 or USB 2.0



### The Logical Solution

The USB Extender (1.1 and 2.0 Models) is a fiber optic extender designed to extend USB 1.1 or 2.0 interface signals up to 1000 meters (3280 feet) over a standard duplex multimode fiber. With the USB Extender, peripherals can be conveniently located away from the computer without any loss of performance. The USB 2.0 Extender effectively supports not only USB 2.0 peripherals but USB 1.1 low speed and full speed devices as well.

### The Features

- **Model USB 1.1:** Supports USB 1.1 (low-speed 1.5 Mbps or full-speed 12 Mbps)
- **Model USB 2.0:** Supports USB 1.1 (low-speed, full-speed) and USB 2.0 high-speed devices operating up to 480 Mbps
- Extends connections up to 1000 meters (3280 feet) using standard duplex multi-mode fiber
- Simple plug and play
- LEDs provide link performance status
- Supports all major operating systems including Windows, Mac-OS, Linux, and Sun
- Number of devices can be increased using standard USB hubs

### The System

Each system consists of two compact units, a transmitter and a receiver. The USB Extender transmitter connects to the host computer with a standard USB cable and the receiver provides four ports for connection of peripheral devices. External power is required for both the transmitter and receiver units and two universal power supplies are included. Plug-and-play with no adjustments makes setting up the USB Extender fast and easy. As an added bonus, LEDs provide link performance at a glance. The USB Extender successfully and effectively delivers USB peripherals when and where you need them.

### The Options

**The USB 1.1 Model** enables users to connect and extend USB printers, cameras, web cams or any other USB 1.1 device up to 1000 meters (3280 feet) over standard duplex multi-mode fiber.

**The USB 2.0 Model** enables users to connect and extend high performance, hi-speed USB peripherals up to 1000 meters (3280 feet) over standard duplex multi-mode fiber.

All models are available with SC-, ST-, or LC-type fiber connectors.

## Copper Connectors

### USB 1.1 and USB 2.0 Models

#### Transmitter

|                  |                       |
|------------------|-----------------------|
| USB Host         | USB B connector       |
| Power            | 2.5mm power connector |
| Fiber Connectors | ST or SC (2)          |

#### Receiver

|                  |                       |
|------------------|-----------------------|
| USB Devices      | USB A connector (4)   |
| Power            | 2.5mm power connector |
| Fiber Connectors | ST or SC (2)          |

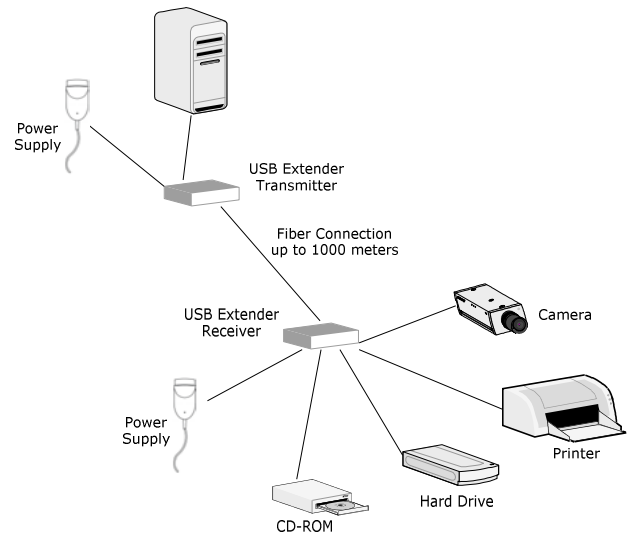
#### Cables Included

USB A to USB B CABLE, 6 Feet

## Specifications

|                               |                                                                           |
|-------------------------------|---------------------------------------------------------------------------|
| DC Power Adapter              | AC universal input<br>90-264 volts (2 supplied)<br>+ 5.0 VDC              |
| Supply Voltage                | 0°-50°C; (32°-122°F)                                                      |
| Operating Temp.               | 5-95% RH, non-condensing                                                  |
| Humidity                      | Height: 1.125" (2.85cm)                                                   |
| Dimensions                    | Depth: 4.625" (11.75cm)                                                   |
| And Weights                   | Width: 6.625" (16.82cm)                                                   |
|                               | Weight: 2lbs (0.90kg)                                                     |
|                               | Shipping Weight: 4lbs<br>(1.81kg)                                         |
| Optical Cable                 | Duplex multi-mode fiber<br>50 or 62.5 micron<br>(available, not supplied) |
| Optical Distance              | Up to 1000 meters<br>(3280 feet)                                          |
| Power Consumption             | 5 watts per unit (with no<br>devices connected)                           |
| Compliance                    | Approvals for US, Canada,<br>and European Union                           |
| Warranty                      | 12 months from date of<br>shipment.                                       |
| Extended warranties available |                                                                           |

## Typical Application for USB Extender



*Ability to extend USB devices (USB printers, cameras, web cams, etc) to a host computer up to 1000 meters over standard duplex multi-mode fiber.*

## Ordering Information

| Part Number     | Description               |
|-----------------|---------------------------|
| USB-000001-LC   | USB 1.1 Extender Pair, LC |
| USB-000001-LCTX | USB 1.1 Extender TX, LC   |
| USB-000001-LCRX | USB 1.1 Extender RX, LC   |
| USB-000001-SC   | USB 1.1 Extender Pair, SC |
| USB-000001-SCTX | USB 1.1 Extender TX, SC   |
| USB-000001-SCRX | USB 1.1 Extender RX, SC   |
| USB-000001-ST   | USB 1.1 Extender Pair, ST |
| USB-000001-STTX | USB 1.1 Extender TX, ST   |
| USB-000001-STRX | USB 1.1 Extender RX, ST   |
| USB-000002-LC   | USB 2.0 Extender Pair, LC |
| USB-000002-LCTX | USB 2.0 Extender TX, LC   |
| USB-000002-LCRX | USB 2.0 Extender RX, LC   |
| USB-000002-SC   | USB 2.0 Extender Pair, SC |
| USB-000002-SCTX | USB 2.0 Extender TX, SC   |
| USB-000002-SCRX | USB 2.0 Extender RX, SC   |
| USB-000002-ST   | USB 2.0 Extender Pair, ST |
| USB-000002-STTX | USB 2.0 Extender TX, ST   |
| USB-000002-STRX | USB 2.0 Extender RX, ST   |

Please contact a Thinklogical sales representative.

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