

USB-EXT

USB over Twisted Pair Extender

The Crestron® USB over Twisted Pair Extender (USB-EXT) delivers reliable USB signal extension for use in a boardroom, classroom, auditorium, command center, or residence. Without any special setup or configuration, the USB-EXT enables wire runs up to 100 meters (330 feet) over a single, low-cost twisted-pair cable^[1].

The USB-EXT is compatible with USB 1.1 and High-Speed USB 2.0, supporting virtually any USB device such as keyboards and mice, game controllers, cameras, mobile devices, printers, hubs, and memory devices.^[2] It is compatible with Windows® and Mac® computers without requiring any additional drivers.

The USB-EXT is composed of two extender components. The "local" extender connects to your computer or other USB host, while the "remote" extender provides connections for your USB devices at some remote location. Linking the two extender components requires just one run of inexpensive CAT 5 (or better) twisted-pair cable^[1].

> *Extends USB signals 100 meters over CAT5 twisted-pair cable^[1]*

> *USB 1.1 and 2.0 compatible*

> *Provides 2 ports for USB devices*

> *Supports up to 3 USB hubs (see specifications)*

> *Works reliably without any programming or configuration*

> *24VDC power pack included*

SPECIFICATIONS

Communications

Link: USB extension up to 330 ft (100 m) over UTP or STP cable^[1]

USB Device Support: USB 1.1 and 2.0 compatible including 1.5 Mb/s low speed, 12 Mb/s full speed, and 480 Mb/s high-speed devices^[2]

USB Hub Support: Any signal chain may include up to 3 USB hubs plus one USB-EXT^[2]

Maximum USB Devices: 14 USB devices, or 3 USB hubs with 11 USB devices

USB Host Support: EHCI (USB 2.0) and OHCI/UHCI (USB 1.1)

Connectors - Local Extender

Ground: (1) M2 threaded hole;

Accepts an M2 type screw to provide a chassis ground lug

DC IN 24V@1A: (1) 2.1 mm barrel DC power jack;

24 Volt DC power input (power pack included)

USB: (1) USB Type B female (cable included);

USB 2.0 device port for connection to the USB host interface

Link: (1) 8-pin RJ45 female, connects to Link port on the Remote Extender^[1]

Connectors - Remote Extender

USB: (2) USB Type A female, USB 2.0 host ports;

For connection of USB mice, keyboards, game controllers, cameras, mobile devices, printers, memory, hubs, and other USB devices^[2];

Available Power: 500 mA @ 5 Volts DC per port

Ground: (1) M2 threaded hole;

Accepts an M2 type screw to provide a chassis ground lug

Link: (1) 8-pin RJ45 female, connects to Link port on the Local Extender^[1]



Indicators - Local Extender

Power: (1) Blue LED, indicates operating power supplied via local power pack

Link: (1) Green LED, indicates a valid Link connection to the Remote Extender

Host: (1) Green LED, indicates a valid connection to the USB host

Activity: (1) Amber LED, indicates data activity on the Link interface

Indicators - Remote Extender

USB: (2) Green/orange dual-color LEDs, green indicates a valid USB device connection and orange indicates a current draw in excess of 500 mA at the respective USB port

Power: (1) Blue LED, indicates operating power supplied from the Local Extender via the Link connection

Link: (1) Green LED, indicates a valid Link connection to the Local Extender

Host: (1) Green LED, indicates a valid connection to the USB host at the Local Extender

Activity: (1) Amber LED, indicates data activity on the Link interface

Power Requirements

Power Pack: 1 Amp @ 24 Volts DC/600 mA @ 100-240 Volts AC, 50/60 Hz power pack (included)^[3]

Environmental

Temperature: 32° to 122°F (0° to 50°C)

Humidity: 20% to 80% RH (non-condensing)

Enclosure (Typical of 2)

Construction: Metal, black finish

Dimensions (Typical of 2)

Height: 1.02 in (26 mm)

Width: 3.94 in (100 mm)

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Depth: 2.99 in (76 mm)

Available Models

USB-EXT: USB over Twisted Pair Extender

Notes:

1. For the "Link" connection, use quality CAT5, CAT5e, CAT6 or better UTP or STP cable. The maximum cable length is 330 ft (100 m). The minimum cable length is 6 ft (1.8 m). Do not connect the LINK ports to an Ethernet LAN or any other network or device.

2. Crestron does not guarantee that all USB devices are compatible with the USB-EXT.

3. The power pack must be connected to the Local Extender at the USB host location. Power is passed to the Remote Extender via the LINK connection.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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