USB-EXT-2-LOCAL/USB-EXT-2-REMOTE

USB over Category Cable Extenders

- *Provide reliable, high-speed USB signal extension for most USB 1.1 or 2.0 devices[1]*
- *Compatible with Crestron® USB over Category Cable Extender Wall Plates (USB-EXT-2-LOCAL-1G and USB-EXT-2-REMOTE-1G)*
- *Extend USB signals up to 330 ft (100 m) over CAT5e (or better) twisted-pair cable[2]*
- *100-240 VAC power supply (included)*
- *Enable transparent point-to-point USB extension without any configuration or programming*
- *Plug-and-play compatible with most types of USB 1.1 and 2.0 devices and hosts[1]*
- *No drivers required with Windows®, macOS®, or Linux® operating systems[1]*
- *Transport USB over CAT5e at speeds up to 480 Mbps*
- *Mass Storage Acceleration maximizes USB 2.0 bulk transfer speeds*
- *Expandable using up to 4 USB hubs (not included)*
- *USB-EXT-2-REMOTE provides 2 USB Type A ports*

The Crestron® USB over Category Cable Extenders (USB-EXT-2-LOCAL and USB-EXT-2-REMOTE) deliver reliable, high-speed USB signal extension for USB 1.1 and 2.0 devices in a conference room, classroom, auditorium, command center, medical facility, public space, or residence. Without requiring any special configuration or drivers, the USB extenders enable wire runs up to 330 ft (100 m) over a single CAT5e (or better) unshielded twisted-pair (UTP) cable. The USB extenders support most USB device types and are plug-and-play compatible with computers running Windows®, macOS®, and Linux® operating systems.

Two types of USB extenders are available:

- USB-EXT-2-REMOTE - Provides connectivity for up to two USB devices (keyboards, whiteboards, mobile devices, etc.) at one location
- USB-EXT-2-LOCAL - Provides connectivity for a single USB host (computer, media server, codec, etc.)

Linking the two extenders requires one run of CAT5e unshielded twisted-pair cable.[2] Both extenders are powered by a single 100-240 VAC power supply, which can be connected at either end to an AC power receptacle.[3] The USB-EXT-2-LOCAL and USB-EXT-2-REMOTE are compatible with the USB over Category Cable Extender Wall Plates (USB-EXT-2-LOCAL-1G and USB-EXT-2-REMOTE-1G).

> NOTE: The USB-EXT-2-LOCAL and USB-EXT-2-REMOTE are simple point-to-point USB signal extenders. They do not switch or route USB signals, and do not connect to a network. For KVM and other applications routing USB signals over an Ethernet network, please refer to the USB over Category Cable Extenders (USB-NX2-LOCAL-1G and USB-NX2-REMOTE-1G) or the USB over Ethernet Extenders with Routing (USB-EXT-DM-LOCAL and USB-EXT-DM-REMOTE).[2]

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Specifications

Communications

Link	USB extension up to 330 ft (100 m) over solid-core CAT5e (or better) unshielded twisted pair (UTP) cable[2]
USB Device Support	USB 1.0/1.1 and 2.0 compatible including mass storage and isochronous devices[1]
USB Hub Support	Any signal chain may include up to 4 USB hubs plus one USB-EXT-2-LOCAL and one USB-EXT-2-REMOTE[1]
Maximum USB Devices	30 USB devices, or 4 USB hubs with 26 USB devices
Host Computer OS Support	Windows®, macOS®, and Linux® operating systems
USB Throughput	USB 2.0 up to 480 Mbps, USB 1.1 up to 12 Mbps

Connectors – Local extender

24 V 1 A	(1) 2.1 x 5.5 mm DC power connector; 24 VDC power input (power supply included)[3]
Config	For factory use only
Link	(1) 8-pin RJ45 connector, female; Connects directly to a Remote extender[2]
USB	(1) USB Type B connector, female USB 2.0 device port for connection to the USB host computer, media server, game console, annotator, codec, etc.

Connectors – Remote extender

24 V 1 A	(1) 2.1 x 5.5 mm DC power connector; 24 VDC power input (power supply included)[3]
Config	For factory use only
Link	(1) 8-pin RJ45 connector, female; Connects to Link port on the Local extender[2]
USB	(2) USB Type A connectors, female; USB 2.0 host ports for connection of USB devices such as mice, keyboards, and other USB devices[1] Available USB Power: 1 A maximum per port, 1.5 A maximum total

Indicators – Local extender

Activity	(1) Amber LED, indicates data activity on the Link interface
Host	(1) Green LED, indicates a valid connection to the USB host
Link	(1) Green LED, indicates a valid Link connection to the Remote extender
Mode	(1) Recessed pushbutton (for factory use only)
Power	(1) Blue LED, indicates operating power is supplied via the local power supply or the Link connection[3]

Indicators – Remote extender

Activity	(1) Amber LED, indicates data activity on the Link interface
Host	(1) Green LED, indicates a valid connection to the USB host at the Local extender
Link	(1) Green LED, indicates a valid Link connection to the Local extender
Mode	(1) Recessed pushbutton (for factory use only)
Power	(1) Blue LED, indicates operating power is supplied via the local power supply or the Link connection[3]

Power

Available USB Power	Supplies 1 A maximum per each of two USB Type A ports, 1.5 A maximum total
USB-EXT-2-LOCAL	USB powered via the USB host interface[3]
USB-EXT-2-REMOTE	Input: 100-240 VAC, 50/60 Hz; Output: 0.75 A @ 24 VDC [3]

Environmental

Temperature	32° to 122° F (0° to 50° C)
Humidity	20% to 80% RH (non-condensing)

Construction

Housing	Metal, black finish, adhesive rubber feet
Mounting	Includes four slots for wire ties or other third-party mounting hardware

Dimensions

Height	1.03 in. (26 mm) without feet
Width	2.96 in. (75 mm)
Depth	3.43 in. (87 mm)

Compliance

CE, IC, FCC Part 15 Class B digital device

Models

USB-EXT-2-LOCAL
USB over Category Cable Extender, Local

USB-EXT-2-REMOTE
USB over Category Cable Extender, Remote

USB-EXT-2 KIT
USB over Category Cable Extender, Local and Remote

Notes:

1. The USB extender is engineered to deliver maximum compatibility with the widest possible range of devices. Crestron does not guarantee that all USB devices or hosts are compatible with the USB extender. Certain USB devices may require additional driver installation if not directly supported by the computer's operating system.

2. For the Link connection between the Local and Remote extenders, as a minimum, use high quality, solid core CAT5e (or better) unshielded twisted pair (UTP) cable. If connecting either extender through a wall jack, a stranded patch cord may be used. The maximum aggregate cable length is 330 ft (100 m) between units. 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, including the USB-EXT-DM-REMOTE, USB-EXT-DM-LOCAL, USB-NX2-REMOTE-1G, USB-NX2-LOCAL-1G.

3. The power supply must be connected to either the Local or Remote extender, not both. Power is passed to the secondary extender via the Link connection.Crestron recommends installing this ferrite bead on the included 24 VDC power supply cable close to the device.When using a power source other than PoE, Crestron recommends installing this ferrite bead on the power supply cable close to the device.

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This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.
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Rev 02/28/20

USB-EXT-2
REMOTE

3.43 in
87 mm

2.96 in
75 mm

EXTREME
USB®

Power Link Host Activity

1.03 in
26 mm

24V 1A   Link   Config Mode

USB-EXT-2
LOCAL

3.43 in
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2.96 in
75 mm

EXTREME
USB®

Power Link Host Activity

Mode Config

1.03 in
26 mm

24V 1A   Link

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