**SECTION 27 41 16**

**INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT**

**GUIDE SPECIFICATION**

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*Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.*

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## **USB 3.2 Extender**

## **Basis of Design:**

### Crestron USB-EXT-3 KIT

*Specifier Note:*

*https://www.crestron.com/Products/Video/DigitalMedia-Endpoints/USB-Extenders/USB-EXT-3-KIT*

*The Crestron USB-EXT-3 KIT offers a highly versatile USB 3.2 extender to support USB 3.2 peripherals such as UC soundbars and cameras. The maximum length of a standard 3.2 cable is limited to 6 ft (1.8 m), which is not adequate for most integrated solutions used in conference rooms and other meeting spaces. The USB-EXT-3 KIT provides a solution for the simultaneous extension of all USB signals up to 330 ft (100 m) over CAT 6a/7 cable at high speed up to 5 Gbps.*

## **Communication**

### The USB extender pair shall transmit and communicate over a single CAT 6a/7.

## **Device Architecture**

### The USB extender shall be composed of a local unit and a remote unit.

### The USB extender pair shall utilize a single CAT 6/7 type cable for USB data transmission.

### Ethernet pass-through shall be supported over the same single cable connection as USB data.

## **Functions**

### Extend USB 3.2 over a single CAT 6a/7 Cable

#### Point-to-point connectivity for USB signal extension over CAT6a/CAT7 up to 330 ft (100 m)

#### Supports USB 3.2 Gen 1 data rate up to 5 Gbps

#### Supports USB 3.2, 2.0, and 1.1 signals simultaneously

#### Supports the following USB transfer types: control, interrupt, isochronous (ISO), and bulk

#### Integrated Gigabit Ethernet pass-through port

## **Physical**

### Connectors included on Local device:

#### USB 3.2 Gen 1 host port: connection to computer, media server, game console, or other USB host

##### (1) USB Type-B connector, female

### Connectors included on Remote device:

#### USB 3.2 Gen 1 device ports for connection to USB devices

##### (4) USB Type-A connector, female

##### Available Power: 1.2A (6W) per USB port

##### Backward compatibility with USB 2.0 and USB 1.1

### Connectors included on Local device and Remote device:

#### Link port: point to point connection between local unit and remote unit

##### (1) 8-pin RJ-45 connector, female

#### Ethernet 100BASE-TX/1000BASE-T: passthrough connection to Ethernet network or network-enabled device

##### (1) 8-pin RJ-45 connector, female

#### DC power connector

### User Interface

#### Panel Indicators

##### Devices include the following LED indicators: Power, Status, Link, USB 2, USB 3, and LAN

## **Compliance**

### IC, CE, FCC Part 15 Class B digital device