

## 4K60 4:4:4 DM® Essentials Transmitter Receiver Pair for USB-C® DisplayPort™, and USB 2.0 Signal Extension over CATx Cable, Wall Plate

- 4K60 video with 4:4:4 color sampling
- 2-gang wall plate transmitter and receiver for extension of a USB-C® DisplayPort™ AV signal, and USB 2.0 data signals over a CAT5e or higher cable
- 2x1 auto-switching transmitter and 2x1 auto-switching receiver for extension of a USB-C® DisplayPort™ AV signal or HDMI® signal and USB 2.0 data over a CAT5e or higher cable
- HDR10, HDR10+, and Dolby Vision® video formats
- Signal extension distance up to 130 ft (40 m) for UHD and 4K signals or up to 230 ft (70 m) for 1080p, WUXGA, and 2K signals
- EDID and HDCP 2.3 management
- Consumer Electronics Control (CEC) capability
- EDID and CEC pass-through capability
- Low-profile installation
- 100-240VAC power pack included

The DM-EXT-2011-2G KIT consists of a wall plate transmitter ([HD-TXU-4KZ-111-2G\[-W/B\]](#)) and receiver ([HD-RXU-4KZ-101-E](#)), and enables the extension of HDMI® and USB 2.0 signals. This is useful in applications where an AV source is located remotely from its destination, such as a display, projector, or codec solution. A CAT5e or higher twisted pair cable must be used to connect the transmitter and receiver.<sup>1</sup>

**NOTE:** Power is transmitted over the CATx cable that connects the transmitter to the receiver.

The DM-EXT-2011-2G KIT is available in two models, the [DM-EXT-2011-2G-B KIT](#) and [DM-EXT-2011-2G-W KIT](#). The DM-EXT-2011-2G-B KIT includes a [HD-TXU-4KZ-111-2G-B](#) black wall plate transmitter, and the DM-EXT-2011-2G-W KIT includes a [HD-TXU-4KZ-111-2G-W](#) white wall plate transmitter.

### 4K60 4:4:4 and HDR Support

The DM-EXT-2011-2G KIT supports video resolutions up to 4K60 with 4:4:4 color sampling. HDR10, HDR10+, and Dolby Vision® video formats are also supported.<sup>2</sup>

### USB 2.0 Data Extension

Two USB 2.0 host ports are provided on both the HD-TXU-4KZ-111-2G and HD-RXU-4KZ-101-E, enabling connection to a wide variety of supported USB 2.0 peripheral devices.<sup>4</sup>

### Low Profile Installation

The transmitter and receiver can be placed on or attached to a flat surface. The transmitter . The receiver can be mounted onto a wall behind a display or onto a ceiling above a projector. The devices are also rack rail mountable.

## Specifications

### Video

<b>Input Signal Types</b>	DisplayPort™ over USB-C® (DisplayPort Alt Mode) with HDR10, HDR10+, Dolby Vision®, Deep Color, and 4K60 4:4:4 support <sup>2</sup>
<b>Output Signal Types</b>	HDMI® with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support <sup>2</sup>
<b>Copy Protection</b>	HDCP 2.3
<b>Maximum Resolutions</b>	Common resolutions are listed in the following table.

Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
Progressive	4096x2160 DCI 4K & 3840x2160 4K UHD	24 Hz	4:4:4	12 bit
		30 Hz	4:4:4	12 bit
		60 Hz	4:2:2	12 bit
		60 Hz	4:4:4	8 bit
	2560x1600 WQXGA	60 Hz	4:4:4	8 bit
	1920x1080 HD 1080p	60 Hz	4:4:4	12 bit

### NOTES:

- The maximum supported resolution is 4K60 with 4:4:4 color sampling. Custom resolutions are supported at pixel clock rates up to 600 MHz.
- Interlaced video sources are not supported.

### Audio

<b>Input Signal Type</b>	DisplayPort over USB-C (DisplayPort Alt Mode)
<b>Output Signal Type</b>	HDMI

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**Digital Formats** Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, Dolby Atmos®, DTS®, DTS ES, DTS 96/24, DTS HD® High Res, DTS-HD Master Audio, DTS:X®, LPCM up to 8 channels

### Communications

**HDMI** HDCP 2.3, EDID, CEC pass-through  
**DM** HDCP 2.3, EDID; USB 2.0 up to 300 Mbps  
**USB** USB signal extension via USB 2.0 host ports

### Connectors - Transmitter (HD-TXU-4KZ-111-2G)

**24 VDC 0.5A** (1) 2-pin 3.5 mm detachable terminal block; 24VDC power input; Power pack not included

**NOTE:** The power pack included with the receiver will power both units. Do not connect both power packs at once.

**DM** (1) 8-pin RJ-45 connector, female, shielded; DM output port for connection to the receiver<sup>1</sup>  
**USB INPUT** (1) USB Type-C® connector, female; Digital video/audio input using DisplayPort Alt Mode; USB 2.0 data support  
**HOST** (2) USB Type-A connectors, female; USB 2.0 host ports; USB signal extender ports for connection to USB mice, keyboards, or other USB 2.0 peripheral devices;<sup>4</sup>  
**Available Power:** 500mA @ 5VDC per port  
**Ground** (1) Chassis ground lug

### Connectors - Receiver (HD-RXU-4KZ-101-E)

**DM IN** (1) 8-pin RJ-45 yellow connector, female, shielded; DM input port for connection to the transmitter<sup>1</sup>  
**HDMI OUTPUT** (1) HDMI Type A connector, female; HDMI digital video/audio output (DVI compatible)

**24 VDC 1.4A** (1) 2.1 x 5.5 mm DC power connector; 24VDC power input; [PW-2420RU](#) power pack included

**NOTE:** The power pack included with the receiver will power both units. Do not connect both power packs at once.

**SERVICE** (1) USB 2.0 Type-A connector, female; Used for firmware loading, configuration management, or as a USB host port for one [TT-100](#) series cable caddy (sold separately); Can also provide up to 5V 500 mA power to a USB powered device

**HOST** (2) USB Type-A connectors, female; USB 2.0 host ports; USB signal extender ports for connection to USB mice, keyboards, or other USB 2.0 peripheral devices;<sup>4</sup>  
**Available Power:** 500mA @ 5VDC per port

**Ground** (1) Chassis ground lug

### Controls and Indicators - Transmitter (HD-TXU-4KZ-111-2G)

**LINK** (1) Green LED, indicates that DM link is established.  
**PWR** (1) Green/amber bi-color LED; Amber indicates that the device is booting; Green indicates that the device is operational  
**USB IN** (1) Green LED, indicates that the device is receiving a DisplayPort over USB-C (DisplayPort Alt Mode) input signal  
**DM OUT** (2) LEDs on RJ-45 connector, one green and one amber; Green indicates that DM link is established; Flashing amber indicates non-HDCP video; Solid amber indicates HDCP video  
**RESET** (1) Push button, restores factory default settings

### Controls and Indicators - Receiver (HD-RXU-4KZ-101-E)

**PWR** (1) Green/amber bi-color LED; Amber indicates that the device is booting; Green indicates that the device is operational

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**DM IN** (2) LEDs on RJ-45 connector, one green and one amber;  
Green indicates that DM link is established;  
Flashing amber indicates non-HDCP video;  
Solid amber indicates HDCP video

### Power

**Power Pack (included with Receiver)** Input: 100-240VAC;  
Output: 24VDC 2.5A;  
Models: [PW-2420RU](#)

**NOTE:** The power pack included with the receiver will power both units. Do not connect both power packs at once.

### Environmental

**Temperature** 32° to 104° F (0° to 40° C)  
**Humidity** **Transmitter:** 20% to 90% RH (non-condensing);  
**Receiver:** 10% to 90% RH (non-condensing)

### Construction

**Chassis (Transmitter)** Metal housing and bracket with black or white polycarbonate front label overlay  
**Chassis (Receiver)** Metal, black finish, vented sides, 2 mounting flanges  
**Mounting (Transmitter)** Mounts in a 2-gang (or larger) 2 in. (51 mm) deep U.S. electrical box or plaster ring (not included)  
**Mounting (Receiver)** Surface or rack rail mount  
**Faceplate (Transmitter)** Requires decorator style faceplate ([FP-G2-DM](#) Series, sold separately)

### Dimensions - Transmitter (HD-TXU-4KZ-111-2G)

**Height** 4.12 in. (105 mm)  
**Width** 3.57 in. (91 mm)  
**Depth** 1.70 in. (43 mm)

### Dimensions - Receiver (HD-RXU-4KZ-101-E)

**Height** 5.11 in. (130 mm)  
**Width** 4.19 in. (106 mm) with mounting flanges attached  
**Depth** 7.94 in. (202 mm)

### Weight

**Transmitter** 7.25 oz (206 g)  
**Receiver** 1.19 lb (0.54 kg)

### Compliance

**Regulatory Model: M202047005**  
Intertek® Listed for US and Canada, CE, IC, FCC Part 15 Class B digital device

Click [here](#) to search product certificates.

### Models

**DM-EXT-2011-2G-B KIT**  
4K60 4:4:4 DM® Essentials Transmitter Receiver Pair for USB-C® DisplayPort™, and USB 2.0 Signal Extension over CATx Cable, Wall Plate, Black

**DM-EXT-2011-2G-W KIT**  
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### Included Accessories

**PW-2420RU**  
Desktop Power Pack, 24VDC, 2.5A, 2.1 mm

### Available Accessories

For a list of available accessories, visit the [DM-EXT-2011-2G KIT](#) product page.

#### Notes:

- For the DM CATx cable connection, use Crestron DM-CBL-8G, Crestron DM-CBL-ULTRA, or third-party CAT5e or higher cable. To safeguard against unpredictable environmental electrical noise that may impact performance at resolutions above 1080p, shielded cable and connectors are recommended for all applications and are required when bundling multiple cables in a wire run. Wire and cables are sold separately.
- 4K60 4:4:4 performance and HDR support require the use of USB-3.2 Gen 1 (5 Gbps) cables with support for DisplayPort Alt Mode (DisplayPort 1.4 video, 4K60 4:4:4, 2 lanes). Cables are sold separately.
- 4K60 4:4:4 performance and HDR support require the use of HDMI cables and couplers with a minimum TMDS bandwidth of 18 Gbps. If 4K60 4:2:0 or 4K30 4:4:4 performance is acceptable, cables and couplers with a minimum bandwidth of 10.2 Gbps may be used. Bandwidth loss is cumulative; therefore, performance may be reduced when inserting multiple cables and couplers inline.

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4. The HD-TXU-4KZ-111-2G and HD-RXU-4KZ-101-E are engineered to deliver maximum compatibility with the widest possible range of USB devices. Crestron does not guarantee that all USB devices are compatible with the HD-TXU-4KZ-111-2G and HD-RXU-4KZ-101-E.
5. The HDMI output requires an appropriate adapter or interface cable to accommodate a DVI signal. [CBL-HD-DVI](#) interface cables are sold separately.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](http://www.crestron.com/How-To-Buy/Find-a-Representative) or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to [www.crestron.com/warranty](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

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## HDMI

Specifications are subject to change without notice.

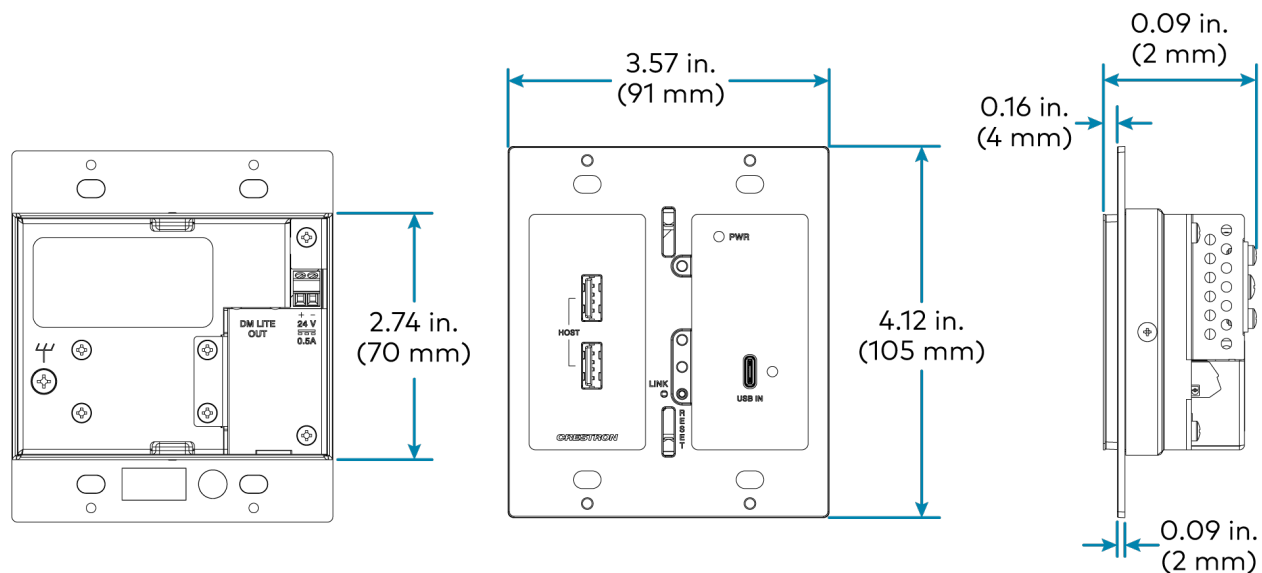
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