

## DM Lite® 4K60 4:4:4 Transmitter for USB-C® DisplayPort™ Signal Extension over CATx Cable, Wall Plate



- Interoperability with a DM Lite® receiver or DMPS Lite™ switcher
- USB-C® input with DisplayPort™ Alt Mode capability for the point-to-point extension of a DisplayPort AV signal over a CAT5e or higher cable
- DM Lite transmission 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
- 4K60 4:4:4 capability
- HDR10, HDR10+, and Dolby Vision® video formats
- Compliance with HDCP 2.3
- CEC (Consumer Electronics Control) pass-through capability
- EDID pass-through capability
- One-gang wall plate design available in black or white finish
- Decorator style faceplate required (FP-G Series sold separately)
- Power from the remote DM Lite receiver (surface mountable only) or DMPS Lite switcher

The HD-TX-4KZ-111-1G is a DM Lite® 4K60 4:4:4 wall plate transmitter designed to interoperate with a DM Lite® receiver or DMPS Lite™ switcher. The HD-TX-4KZ-111-1G includes a USB-C® input with DisplayPort™ Alt Mode capability, enabling the transmission of a DisplayPort AV signal. A CAT5e or higher twisted pair cable is used to connect the HD-TX-4KZ-111-1G to the DM Lite receiver or DMPS Lite switcher. For 1080p, WUXGA, and 2K signals, a cable length of up to 230 ft (70 m) is supported. For UHD and 4K signals, a cable length of up to 130 ft (40 m) is supported.<sup>1</sup>

The HD-TX-4KZ-111-1G is available in two models: HD-TX-4KZ-111-1G-B (black) and HD-TX-4KZ-111-1G-W (white).

### Interoperability with a DM Lite Receiver or DMPS Lite Switcher

The DM Lite output port of the HD-TX-4KZ-111-1G must be connected to a DM Lite input port of a DM Lite receiver or DMPS Lite switcher. Examples of supported DM Lite 4K60 4:4:4 receivers are the HD-RX-4KZ-101, HD-RXA-4KZ-101, HD-RXC-4KZ-101, and HD-RXCA-4KZ-101. Supported DM Lite 4K60 4:2:0 receivers are the HD-RX-101-C-E, HD-RXC-101-C-E, HD-RX-201-C-E, HD-RX-101-C-1G-E, and HD-RXC-101-C-1G-E. Supported DMPS Lite switchers are the HD-PS622, HD-PS621, HD-PS402, HD-PS401, and HD-RX-4K-210-C-E(-POE).

The HD-TX-4KZ-111-1G can be configured and controlled only when it is used with a DMPS Lite switcher. The web interface of the switcher can be used to configure the HD-TX-4KZ-111-1G. In addition, control system programming and .AV Framework™ software support of the HD-TX-4KZ-111-1G is hosted by the switcher.

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

The HD-TX-4KZ-111-1G 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>

### One-Gang Wall Plate Design

The HD-TX-4KZ-111-1G is designed to mount into a 1-gang U.S. electrical box or plaster ring (not included). The HD-TX-4KZ-111-1G can receive power from the remote DM Lite receiver (surface mountable only) or DMPS Lite switcher.<sup>3</sup>

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### Specifications

#### Video

<b>Input Signal Type</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 Type</b>	DM Lite® with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support <sup>2</sup>
<b>Copy Protection</b>	HDCP 2.3
<b>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 FHD 1080p	60 Hz	4:4:4	12 bit

**NOTE:** The maximum supported resolution is 4K60 with 4:4:4 color sampling. Custom resolutions are supported at pixel clock rates up to 600 MHz.

The HD-TX-4KZ-111-1G does not support interlaced video.

#### Audio

<b>Input Signal Type</b>	DisplayPort over USB-C (DisplayPort Alt Mode)
<b>Output Signal Type</b>	DM Lite
<b>Digital Formats</b>	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

<b>USB-C</b>	HDCP 2.3, EDID, CEC pass-through
<b>DM Lite</b>	HDCP 2.3, EDID pass-through

#### Connectors

<b>USB IN</b>	(1) USB Type-C® connector, female; Digital video/audio input using DisplayPort Alt Mode <sup>4</sup>
<b>DM LITE OUT</b>	(1) 8-pin RJ-45 yellow connector, female, shielded; DM Lite output port for connection to a DM Lite receiver or DMPS Lite™ switcher <sup>1,5</sup>
<b>24V 0.75A</b>	(1) 2-pin 3.5 mm detachable terminal block; 24VDC power input; Optional power pack (sold separately, required only if the HD-TX-4KZ-111-1G is used with a wall plate receiver) <sup>3</sup>
<b>Ground</b>	(1) Chassis ground lug

#### Controls and Indicators

<b>LINK</b>	(1) Green LED, indicates that a DM Lite link is established.
<b>PWR</b>	(1) LED, indicates that power is being applied to the device. Amber indicates that the device is booting. Green indicates that the device is operational.
<b>USB IN</b>	(1) Green LED, indicates that the device is receiving a DisplayPort over USB-C (DisplayPort Alt Mode) input signal
<b>DM LITE OUT</b>	(2) LEDs on RJ-45 connector. Green indicates that a DM Lite link is established. Flashing amber indicates non-HDCP video, and solid amber indicates HDCP video.

#### Power

<b>Power Pack (Optional)</b>	Input: 100-240VAC Output: 24VDC 0.75A Model: <a href="#">PW-2407WUL</a> (sold separately, required only if the HD-TX-4KZ-111-1G is used with a wall plate receiver) <sup>3</sup>
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#### Environmental

<b>Temperature</b>	32° to 104°F (0° to 40°C)
<b>Humidity</b>	20% to 90% RH (non-condensing)

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### Construction

<b>Composition</b>	Metal housing and bracket with black or white polycarbonate front label overlay
<b>Mounting</b>	Mounts in a 1-gang (or larger) 2-1/4 inch (57 mm) deep U.S. electrical box or plaster ring (not included)
<b>Faceplate</b>	Requires a decorator style faceplate ( <a href="#">FP-G</a> series, sold separately)

### Dimensions

<b>Height</b>	4.12 in. (105 mm)
<b>Width</b>	1.72 in. (44 mm)
<b>Depth</b>	2.19 in. (56 mm)

### Weight

5.33 oz (152 g)

### Compliance

#### Regulatory Model: M202045001

Intertek® Listed for US and Canada, CE, IC, FCC Part 15 Class B digital device

To search for product certificates, refer to [support.crestron.com/app/certificates](http://support.crestron.com/app/certificates).

### Models

#### HD-TX-4KZ-111-1G-B

DM Lite® 4K60 4:4:4 Transmitter for USB-C® DisplayPort™ Signal Extension over CATx Cable, Wall Plate, Black

#### HD-TX-4KZ-111-1G-W

DM Lite® 4K60 4:4:4 Transmitter for USB-C® DisplayPort™ Signal Extension over CATx Cable, Wall Plate, White

### Available Accessories

For a list of available accessories, visit the [HD-TX-4KZ-111-1G-B](#) or [HD-TX-4KZ-111-1G-W](#) product page.

### Notes:

- For DM Lite connections, use Crestron DM-CBL-8G, Crestron DM-CBL-ULTRA, or third-party CAT5e or higher cable. For information about the maximum transmission distance for each cable type, refer to [Online Help Answer ID 1001567](#).  
  
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. 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.
- When a DM Lite wall plate is paired with a DM Lite surface-mountable receiver, the power pack included with the receiver is used to power both devices.  
  
When a DM Lite is paired with a DMPS Lite switcher, the switcher provides power to the DM Lite transmitter.  
  
If a DM Lite wall plate is paired with a DM Lite wall plate receiver, the devices must be powered independently by a [PW-2407WUL](#) power pack (sold separately) for each device. A wall plate and wall plate cannot provide power to the remote device with which it is paired.
- For the USB-C input, CBL-USB3G1-C-C-6 and CBL-USB3G2-C-C-3 cables are sold separately.
- Examples of supported DM Lite 4K60 4:4:4 receivers are the HD-RX-4KZ-101, HD-RXA-4KZ-101, HD-RXC-4KZ-101, and HD-RXCA-4KZ-101. Supported DM Lite 4K60 4:2:0 receivers are the HD-RX-101-C-E, HD-RXC-101-C-E, HD-RX-201-C-E, HD-RX-101-C-1G-E, and HD-RXC-101-C-1G-E. Supported DMPS Lite switchers are the HD-PS622, HD-PS621, HD-PS402, HD-PS401, and HD-RX-4K-210-C-E (-POE).

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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 contact us for additional information by visiting [www.crestron.com/contact/our-locations](http://www.crestron.com/contact/our-locations) for your local contact.

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