

DM Lite® 4K60 4:4:4 Transmitter for HDMI®, RS-232, and IR Signal Extension over CATx Cable, Wall Plate



- *Interoperability with a DM Lite® receiver or DMPS Lite™ switcher*
- *Point-to-point extension of HDMI®, RS-232, and IR signals 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*
- *Bidirectional RS-232 and IR 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-TXC-4KZ-101-1G is a DM Lite® 4K60 4:4:4 wall plate transmitter designed to interoperate with a DM Lite® receiver or DMPS Lite™ switcher for the transmission of HDMI®, RS-232, and IR signals. A CAT5e or higher twisted pair cable is used to connect the HD-TXC-4KZ-101-1G 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.¹

The HD-TXC-4KZ-101-1G is available in two models: HD-TXC-4KZ-101-1G-B (black) and HD-TXC-4KZ-101-1G-W (white).

Interoperability with a DM Lite Receiver or DMPS Lite Switcher

The DM Lite output port of the HD-TXC-4KZ-101-1G 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-TXC-4KZ-101-1G 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-TXC-4KZ-101-1G. In addition, control system programming and .AV Framework™ software support of the HD-TXC-4KZ-101-1G is hosted by the switcher.

4K60 4:4:4 and HDR Support

The HD-TXC-4KZ-101-1G supports video resolutions up to 4K60 with 4:4:4 color sampling. HDR10, HDR10+, and Dolby Vision® video formats are also supported.²

One-Gang Wall Plate Design

The HD-TXC-4KZ-101-1G is designed to mount into a 1-gang U.S. electrical box or plaster ring (not included). The HD-TXC-4KZ-101-1G can receive power from the remote DM Lite receiver (surface mountable only) or DMPS Lite switcher.³

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Specifications

Video

Input Signal Type HDMI® with HDR10, HDR10+, Dolby Vision®, Deep Color, and 4K60 4:4:4 support² (DVI and Dual-Mode DisplayPort™ interface compatible⁴)

Output Signal Type DM Lite® with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support²

Copy Protection HDCP 2.3

Resolutions 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
Interlaced	1920x1080 HD 1080i	60 Hz	4:4:4	12 bit
		30 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.

Audio

Input Signal Type HDMI

Output Signal Type DM Lite

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 Lite HDCP 2.3, EDID pass-through

RS-232 2-way serial pass-through up to 115.2k baud (TD/RD only)

IR Bidirectional IR signal pass-through up to 60 kHz

Connectors

IR IN/OUT (1) 4-pin 3.5 mm detachable terminal block; Comprised of (1) IR input port and (1) IR output port; IR IN is for connection from a Crestron IR control port or other IR signal source and passes the IR input signal to the IR OUT port on the DM Lite receiver; IR OUT is for connection to an IR emitter (IRP2, sold separately) and transmits the IR signal from the IR IN port on the DM Lite receiver; Supports IR up to 60 kHz

COM (1) 3-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port; Passes RS-232 TD/RD data to/from the COM port on a DM Lite receiver; Supports up to 115.2k baud

HDMI IN (1) HDMI Type A connector, female; HDMI digital video/audio input; DVI and Dual-Mode DisplayPort™ interface compatible⁴

DM LITE OUT (1) 8-pin RJ-45 yellow connector, female, shielded; DM Lite output port for connection to a DM Lite receiver or DMPS Lite™ switcher^{1,5}

24V 0.75A (1) 2-pin 3.5 mm detachable terminal block; 24VDC power input; Optional power pack (sold separately, required only if the HD-TXC-4KZ-101-1G is used with a wall plate receiver)³

Ground (1) Chassis ground lug

Controls and Indicators

LINK (1) Green LED, indicates that a DM Lite link is established.

PWR (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.

HDMI IN (1) Green LED, indicates that the device is receiving an HDMI signal

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DM LITE OUT (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

Power Pack (Optional) Input: 100-240VAC
Output: 24VDC 0.75A
Model: [PW-2407WUL](#) (sold separately, required only if the HD-TXC-4KZ-101-1G is used with a wall plate receiver)³

Environmental

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

Construction

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

Dimensions

Height 4.12 in. (105 mm)
Width 1.72 in. (44 mm)
Depth 2.19 in. (56 mm)

Weight

5.54 oz (157 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.

Models

HD-TXC-4KZ-101-1G-B

DM Lite® 4K60 4:4:4 Transmitter for HDMI®, RS-232, and IR Signal Extension over CATx Cable, Wall Plate, Black

HD-TXC-4KZ-101-1G-W

DM Lite® 4K60 4:4:4 Transmitter for HDMI®, RS-232, and IR Signal Extension over CATx Cable, Wall Plate, White

Available Accessories

For a list of available accessories, visit the [HD-TXC-4KZ-101-1G-B](#) or [HD-TXC-4KZ-101-1G-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 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.
- When a DM Lite wall plate transmitter 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 transmitter is paired with a DMPS Lite switcher, the switcher provides power to the DM Lite transmitter.
If a DM Lite wall plate transmitter 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 transmitter and wall plate receiver cannot provide power to the remote device with which it is paired.
- The HDMI input requires an appropriate adapter or interface cable to accommodate a Dual-Mode DisplayPort or DVI signal. CBL-HDI-DVI interface 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 or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

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

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open-source software. For specific information, please visit www.crestron.com/opensource.

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HDMI

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