

# HD-TX-101-C-E

## DM Lite – HDMI® over CATx Transmitter, Surface Mount

- > Pairs with a DM Lite receiver to provide a simple point-to-point signal extender
- > Enables extension of HDMI® video and audio signals
- > Links to the receiver via a single CAT5e (or better) twisted pair cable<sup>[1]</sup>
- > Supports 4K and UHD at up to 130 ft (40 m)
- > Supports HD 1080p, WUXGA, and 2K at up to 230 ft (70 m)
- > Handles 4K video resolutions up to 4K60 4:2:0 and 4K30 4:4:4
- > Handles 3D video and Deep Color
- > Supports Dolby® TrueHD, Dolby Atmos®, DTS HD®, DTS:X®, and uncompressed 7.1 linear PCM audio
- > Compatible with HDMI, DVI, and Dual-Mode DisplayPort sources<sup>[3]</sup>
- > Compatible with the Crestron Multihead HD Video Cable (CBL-MULTI-HD-6, sold separately)
- > USB power port supplies power for the Multihead cable and other USB powered devices
- > HDCP 2.2 compliant
- > Passes CEC and EDID signals
- > Low-profile surface mount design
- > Universal 100-240V power pack included<sup>[2]</sup>

The HD-TX-101-C-E is a surface-mountable DM Lite transmitter designed to pair with a DM Lite receiver to form a point-to-point signal extender for HDMI® signals. The DM Lite family of products offers a very simple and versatile solution for extending HD, UHD, 2K, and 4K video signals, with stereo or surround sound audio, over a single CAT5e (or better) cable. A cable length of up to 230 ft (70 m) is supported for HD 1080p, WUXGA, and 2K signals, or up to 130 ft (40 m) for UHD and 4K.<sup>[1]</sup>

For applications requiring a wall plate version, refer to the HD-TX-101-C-1G-E-B-T or HD-TX-101-C-1G-E-W-T.

For applications that require IR or RS-232 signal extension, refer to the HD-TXC-101-C-E.

A USB power port is included on the HD-TX-101-C-E to enable use of a Crestron Multihead HD Video Cable (model CBL-MULTI-HD-6, sold separately). The Multihead cable provides expanded input connectivity to support the connection of a laptop computer or mobile device with HDMI, DisplayPort, Mini DisplayPort, or USB Type-C™ video output.

*Note: The USB power port supplies power only (500 mA maximum) and is suitable for general use to power USB powered devices. No USB data is passed through this connection. It cannot be used to extend USB data, video, or audio signals.*

The HD-TX-101-C-E is designed to mount on a flat surface beneath a table, behind a credenza, or inside a podium. It can also be attached to a single rack rail in the back of an equipment cabinet. When powered using the provided wall mount power pack, the HD-TX-101-C-E also supplies power to the connected receiver over the link cable. Alternately, a power pack may be connected to the receiver, which in turn supplies power to the HD-TX-101-C-E over the link cable.<sup>[2]</sup>



*Important: This product is not addressable from a control system and offers no programmable functionality. AV and CEC signals are simply passed through between a single transmitter and receiver pair. The RJ45 link port on this product is exclusively intended for linking with a single DM Lite receiver. It should not be used to connect to any other equipment or network. DM Lite is not compatible with PoE, PoDM, DigitalMedia 8G+® (DM 8G+®), or HDBaseT®.*

## SPECIFICATIONS

### Video

**Input Signal Type:** HDMI w/Deep Color, 3D, & 4K (DVI & Dual-Mode DisplayPort compatible<sup>[3]</sup>)

**Copy Protection:** HDCP 2.2

**Maximum Resolutions:**

Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
Progressive	4096x2160 DCI 4K & 3840x2160 4K UHD	24 Hz	4:4:4	30 bit
		30 Hz	4:4:4	24 bit
		30 Hz	4:2:2	36 bit
		60 Hz	4:2:0	24 bit
	2560x1600 WQXGA	60 Hz	4:4:4	36 bit
	1920x1080 HD1080p	60 Hz	4:4:4	36 bit
Interlaced	1920x1080 HD1080i	30 Hz	4:4:4	36 bit

*NOTE: Common resolutions are shown; other custom resolutions are supported at pixel clock rates up to 300 MHz*

### Audio

**Input Signal Type:** HDMI (Dual-Mode DisplayPort compatible<sup>[3]</sup>)

**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

# HD-TX-101-C-E DM Lite – HDMI® over CATx Transmitter

## Communications

HDMI: HDCP 2.2, EDID, CEC pass-through

DM Lite Link: Proprietary link for connection between one DM Lite TX & RX only

## Connectors

24VDC 1.25A: (1) 2.1 x 5.5 mm DC power connector;  
24 Volt DC power input;

PW-2412WU power pack included;

Note: This connection powers both the transmitter and receiver<sup>[2]</sup>

TO RX: (1) 8-pin RJ45 connector, female, shielded;  
Link port for connection to a DM Lite receiver<sup>[1]</sup>

HDMI IN: (1) HDMI Type A connector, female;  
HDMI digital video/audio input (DVI and Dual-Mode DisplayPort compatible<sup>[3]</sup>)

POWER ONLY: (1) USB Type A connector, female;  
USB power port (500 mA maximum output);  
Supplies power for a Crestron Multihead HD Video Cable (CBL-MULTI-HD-6, sold separately) or other USB powered device

## Indicators

PWR: (1) Green LED, indicates operating power is supplied from the power pack via the 24VDC input or from the RX via the DM Lite link

HDMI IN: (1) Green LED, indicates HDMI input signal presence

LINK: (1) Green LED, indicates the DM Lite link status

TO RX: (2) LEDs (on RJ45 connector), green LED indicates link status, amber LED indicates a valid video signal

## Power

Power Pack (included): Input: 100-240 Volts AC, 50/60 Hz;  
Output: 1.25 Amps @ 24 Volts DC;  
Model: PW-2412WU

Note: The transmitter and receiver are powered together using a single power pack connected at either the transmitter or receiver (not both).<sup>[2]</sup>

## Environmental

Temperature: 32° to 104° F (0° to 40° C)

Humidity: 20% to 90% RH (non-condensing)

## Construction

Chassis: Metal, black finish, with (2) integral mounting flanges, vented sides

Mounting: Freestanding, surface mount, or attach to a single rack rail

## Dimensions

Height: 1.26 in (32 mm)

Width: 4.21 in (107 mm)

Depth: 4.05 in (103 mm)

## Weight

9.92 oz (281 g)

## Compliance

UL Listed for US & Canada, CE, IC, FCC Part 15 Class B digital device

## Maximum DM Lite Link Cable Lengths

Cable Type:	CAT5e (or better), DM-CBL-ULTRA DM® Ultra Cable, or DM-CBL-8G DM 8G® Cable <sup>[1]</sup>
Resolution:	
1920x1080 FHD 1080p	230 ft (70 m)
1920x1200 WUXGA	
1600x1200 UXGA	
2048x1080 DCI 2K	
2048x1152 QWXGA	
2560x1080 UWFHD	130 ft (40 m)
2560x1440 WQHD	
2560x1600 WQXGA	
3840x2160 4K UHD	
4096x2160 DCI 4K	

## MODELS & ACCESSORIES

### Available Models

HD-TX-101-C-E: DM Lite – HDMI® over CATx Transmitter, Surface Mount

### Included Accessories

PW-2412WU: Wall Mount Power Pack, 24VDC, 1.25A, 2.1mm, Universal (Qty. 1 included)

### Available Accessories

HD-RX-101-C-1G-E-B-T: DM Lite – HDMI® over CATx Receiver, Wall Plate, Black Textured

HD-RX-101-C-E: DM Lite – HDMI® over CATx Receiver, Surface Mount

HD-RX-201-C-E: DM Lite – HDMI® over CATx Receiver, Room Controller, 2x1 Auto-Switcher, HD Scaler, Surface Mount

DM-CBL-ULTRA-PC Series: DigitalMedia™ Ultra Patch Cables

DM-CONN-ULTRA-RECP Series: DigitalMedia™ Ultra Keystone RJ45 Jacks

DM-RPP-K24: DigitalMedia™ 24-Port Keystone Patch Panel

DM-CBL-8G-NP Series: DigitalMedia 8G™ Cable, non-plenum

DM-CBL-8G-P Series: DigitalMedia 8G™ Cable, plenum

DM-8G-CONN-WG: Connector with Wire Guide for DM-CBL-8G

DM-8G-CRIMP-WG: Crimping Tool for DM-8G-CONN-WG

DM-CBL-ULTRA-NP Series: DigitalMedia™ Ultra Cable, Non-Plenum Type CMR

DM-CBL-ULTRA-P Series: DigitalMedia™ Ultra Cable, Plenum Type CMP

DM-CBL-ULTRA-LSZH Series: DigitalMedia™ Ultra Cable, Low Smoke Zero Halogen (Available only in Europe)

# HD-TX-101-C-E DM Lite – HDMI® over CATx Transmitter



**DM-CONN-20:** Connectors for DM-CBL-ULTRA DigitalMedia Ultra Cable  
**CBL Series:** Crestron® Certified Interface Cables  
**CBL-MULTI-HD-6:** Crestron Mercury™ Multihead HD Video Cable, 6 ft (1.8 m)

**Notes:**

- For the DM Lite link cable, use Crestron **DM-CBL-8G** DigitalMedia 8G™ cable, Crestron **DM-CBL-ULTRA** DigitalMedia™ Ultra cable, or third-party CAT5e (or better). The maximum cable length is 230 ft (70 m) for resolutions up to 2K or 130 ft (40 m) for higher resolution signals up to 4K. Refer to the “Maximum DM Lite Link Cable Lengths” table for a more detailed overview. Shielded cable and connectors are required when bundling multiple cables in a wire run, and are recommended for all applications to safeguard against unpredictable environmental electrical noise which may impact performance at resolutions above 1080p. All wire and cables are sold separately. DM Lite devices are not compatible with DigitalMedia 8G+ (DM 8G+), HDBaseT, PoE, PoDM, or any other CATx based interface or network.
- The power pack may be connected to either the transmitter or receiver. Only one power pack is required. Do not connect more than one power pack. DM Lite devices are not compatible with PoE or PoDM.

- The HDMI input requires an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort signal. **CBL-HD-DVI** and **CBL-MULTI-HD-6** interface cables are available separately.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

The specific patents that cover this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, please visit <https://www.crestron.com/opensource>.

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