

DM Lite® Transmitter for HDMI® Signal Extension over CATx Cable



- Pairs with a DM Lite® or DMPS Lite™ receiver
- Enables extension of HDMI® video and audio signals
- Links to the receiver via a single CAT5e (or higher) twisted pair cable
- 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
- HDCP 2.2 compliant
- Passes CEC and EDID signals
- USB power port supplies power to USB powered devices
- Low-profile surface mount design
- Universal 100-240V power pack included

The HD-TX-101-C-E is a DM Lite® surface-mountable transmitter designed to pair with a DM Lite or DMPS Lite™ receiver to form a signal extender for HDMI® signals. The DM Lite family of products offers a versatile solution for extending HD, UHD, 2K, and 4K video signals, with stereo or surround sound audio, over a single CAT5e (or higher) 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.¹

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](#) product page. For applications that require IR or RS-232 signal extension, refer to the [HD-TXC-101-C-E](#) product page.

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 onto 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 HDTX- 101-C-E also supplies power to the connected receiver over the link cable. Alternately, a power pack can be connected to the receiver, which in turn supplies power to the HD-TX-101-C-E over the link cable.²

NOTE: 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 RJ-45 link port on this product is exclusively intended for linking with a single DM Lite or DMPS Lite receiver. It should not be used to connect to any other equipment or network. DM Lite technology is not compatible with PoE, PoDM, DigitalMedia 8G+®, or HDBaseT® technology.

Specifications

Video

Input Signal Types HDMI with Deep Color, 3D, and 4K (DVI and Dual-Mode DisplayPort™ interface compatible³)

Copy Protection HDCP 2.2

Maximum Resolution Common resolutions are listed in the following table.

Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
Progressive	4096x2160 DCI 4K and 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 HD 1080p	60 Hz	4:4:4	36 bit
Interlaced	1920x1080 HD 1080i	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 Types HDMI (Dual-Mode DisplayPort interface compatible³)

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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 2.2, EDID, CEC pass-through
DM Lite Link Proprietary link for connection between one DM Lite transmitter and DM Lite or DMPS Lite receiver only

Connectors

24 VDC 1.25A (1) 2.1 x 5.5 mm DC power connector; 24 VDC power input; [PW-2412WU](#) power pack included;

NOTE: This connection powers both the transmitter and receiver.²

TO RX (DM Lite) (1) 8-pin RJ-45 connector, female, shielded; DM Lite link port for connection to a DM Lite or DMPS Lite receiver¹

HDMI IN (1) HDMI Type A connector, female; HDMI digital video/audio input (DVI and Dual-Mode DisplayPort compatible³)

POWER ONLY (1) USB Type A connector, female; USB power port (500 mA maximum output); Supplies power to USB powered device

Indicators

PWR (1) Green LED, indicates operating power is supplied from the power pack via the 24 VDC input or from the receiver 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 (DM Lite) (2) LEDs on RJ-45 connector, green LED indicates DM Lite link status, amber LED indicates a valid video signal

Power

Power Pack (Included) Input: 100-240 VAC, 50/60 Hz; Output: 1.25 Amps @ 24 VDC; Model: [PW-2412WU](#)

NOTE: The transmitter and receiver are powered together using a single power pack connected at either the transmitter or receiver.²

Environmental

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

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

Heat Dissipation 13.0 BTU/hr

Construction

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

Mounting Freestanding, surface-mountable, 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

Regulatory Models HD-TX-101-C-E

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

Maximum DM Lite Link Cable Length

Resolution	CAT5e (or higher), DM-CBL-ULTRA DM® Ultra Cable, or DM-CBL-8G DM 8G® Cable ¹
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

HD-TX-101-C-E

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Available Accessories

PW-2412WU

Wall Mount Power Pack, 24VDC, 1.25A, 2.1mm, Universal
(Quantity 1 included)

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

HD-RX-4K-210-C-E

DMPS Lite™ 4K Multiformat 2x1 AV Switch and Receiver

HD-RX-4K-410-C-E

DMPS Lite™ 4K Multiformat 4x1 AV Switch and Receiver

HD-RX-4K-410-C-E-SW4

DMPS Lite™ 4K Multiformat 4x1 AV Switch and Receiver with
4-Port Ethernet Switch

HD-RX-4K-510-C-E

DMPS Lite™ 4K Multiformat 5x1 AV Switch and Receiver

HD-RX-4K-510-C-E-SW4

DMPS Lite™ 4K Multiformat 5x1 AV Switch and Receiver with
4-Port Ethernet Switch

DM-CBL-ULTRA-PC-5

DigitalMedia™ Ultra Patch Cable, 5 ft (1.5 m)

DM-CBL-ULTRA-PC-50

DigitalMedia™ Ultra Patch Cable, 50 ft (15 m)

DM-CONN-ULTRA-RECP-20

DigitalMedia™ Ultra Keystone RJ-45 Jack, 20-Pack
w/Termination Tool

DM-RPP-K24

DigitalMedia™ 24-Port Keystone Patch Panel

DM-CBL-8G-NP-SP1000

DigitalMedia 8G™ Cable, Non-Plenum, 1000 ft spool

DM-CBL-8G-P-SP1000

DigitalMedia 8G™ Cable, Plenum, 1000 ft spool

DM-8G-CONN-WG-100

Connectors with Wire Guide for DM-CBL-8G DigitalMedia
8G™ Cable, 100-Pack

DM-8G-CRIMP-WG

Crimping Tool for DM-8G-CONN-WG-100

DM-CBL-ULTRA-NP-SP1000

DigitalMedia™ Ultra Cable, Non-Plenum Type CMR, 1000 ft
spool

DM-CBL-ULTRA-P-SP1000

DigitalMedia™ Ultra Cable, Plenum Type CMP, 1000 ft spool

DM-CBL-ULTRA-LSZH-SP1000

DigitalMedia™ Ultra Cable, Low Smoke Zero Halogen, 1000 ft
spool (Available only in Europe)

DM-CONN-20

Connectors for DM-CBL-ULTRA DigitalMedia Ultra Cable, 20-
Pack

CBL-HD-6

High-Speed HDMI® Cable, 18 Gbps, 6 ft (1.8 m)

CBL-HD-LOCK-8

Locking High-Speed HDMI® Cable, 10.2 Gbps, 8 ft (2.4 m)

CBL-HD-DVI-6

HDMI® to DVI Interface Cable, 6 ft

Notes:

1. 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 higher). The maximum cable length is 70 m (230 ft) for resolutions up to 2K or 40 m (130 ft) for higher resolution signals up to 4K. Refer to the "Maximum DM Lite Link Cable Lengths" table for a 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. Wire and cables are sold separately. DM Lite devices are not compatible with DigitalMedia 8G+, HDBaseT, PoE, PoDM, or any other CATx based interface or network.
2. 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.
3. The HDMI input requires an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort signal. [CBL-HD-DVI](#) interface cables are available 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 or by calling 855-263-8754.

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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