

DM Lite® Receiver for HDMI®, IR, and RS-232 Signal Extension over CATx Cable, Wall Plate, Black Textured



(Faceplate sold separately)

- Pairs with a DM Lite® transmitter
- Enables extension of HDMI®, RS-232, and IR signals
- Links to the transmitter 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 and DVI display devices
- HDCP 2.2 compliant
- Passes CEC and EDID signals
- Installs in a single-gang U.S. electrical box (2-1/4" deep) or plaster ring (not included)
- Decorator-style faceplate sold separately
- Normally powered by the transmitter (surface-mountable) over the link cable

The HD-RXC-101-C-1G-E-B-T is a DM Lite® wall plate receiver designed to pair with a DM Lite transmitter to form a signal extender for HDMI®, RS-232, and IR 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. In addition to video and audio, the HD-RXC-101-C-1G-E-B-T supports the extension of RS-232 and IR control signals in either direction.¹

NOTE: For applications requiring a surface-mountable version, refer to the [HD-RXC-101-C-E](#) product page. For applications that do not require IR or RS-232 signal extension, refer to the [HD-RX-101-C-1G-E-B-T](#) product page.

The HD-RXC-101-C-1G-E-B-T is designed to mount into a single-gang electrical box or plaster ring (not included). When paired with a surface-mountable transmitter, the HD-RXC-101-C-1G-E-B-T is powered by the transmitter over the DM Lite link cable.²

NOTE: This product is not addressable from a control system and offers no programmable functionality. AV, CEC, IR, and RS-232 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 transmitter. 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.

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Specifications

Video

Output Signal Types	HDMI with Deep Color, 3D, and 4K (DVI compatible ³)
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
Interlaced	1920x1080 HD 1080i	60 Hz	4:4:4	36 bit
		30 Hz	4:4:4	36 bit

NOTE: Custom resolutions are supported at pixel clock rates up to 300 MHz.

Audio

Output Signal Types	HDMI
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
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
DM Lite Link	Proprietary link for connection between one DM Lite transmitter and receiver only

Connectors

IR IN/OUT	(1) 4-pin 3.5 mm detachable terminal block; Comprises (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 transmitter; IR OUT is for connection to an IR emitter (IRP2, sold separately) and transmits the IR signal from the IR IN port on the transmitter; Supports IR up to 60 kHz
HDMI OUT	(1) HDMI Type A connector, female; HDMI digital video/audio output (DV compatible ³)
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 the transmitter; Supports up to 115.2k baud
FROM TX (DM Lite, Rear)	(1) 8-pin RJ-45 connector, female, shielded; DM Lite link port for connection to a DM Lite transmitter ¹
24 VDC 1.25A (Rear)	(1) 2-pin 3.5 mm detachable terminal block; 24 VDC power input

NOTE: A power pack is not included with the HD-RXC-101-C-1G-E-B-T. When the HD-RXC-101-C-1G-E-B-T is paired with a surface-mountable transmitter, the 24 VDC power input of the HD-RXC-101-C-1G-E-B-T is not used. The power pack included with and connected to the surface-mountable transmitter is used to power both the transmitter and the HD-RXC-101-C-1G-E-B-T.²

Indicators

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

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Power

Power Pack (sold separately) Input: 100-240 VAC, 50/60 Hz;
Output: 1.25 Amps @ 24 VDC

NOTE: The power pack is required only when the HD-RXC-101-C-1G-E-B-T is paired with a wall plate transmitter. When the HD-RXC-101-C-1G-E-B-T is paired with a surface-mountable transmitter, the power pack included with and connected to the transmitter is used to power both the transmitter and the HD-RXC-101-C-1G-E-B-T.²

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 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 4.08 in. (104 mm)
Width 1.81 in. (46 mm)
Depth 1.97 in. (50 mm)

Weight

5.26 oz (149 g)

Compliance

Regulatory Model HD-RXC-101-C-1G-E-B-T
UL® Listed for US and Canada, CE, IC, FCC Part 15 Class B digital device

Maximum DM Lite Link Cable Lengths

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	

Model

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Accessories

For a list of accessories, visit the [HD-RXC-101-C-1G-E-B-T](#) product page.

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 higher). 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 additional information. 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.
- For applications in which the HD-RXC-101-C-1G-E-B-T is paired with a 1-gang transmitter (HD-TXC-101-C-1G-E-B-T or HD-TXC-101-C-1G-E-W-T), refer to Online Help Answer ID 1000168. A power pack must not be connected to both the receiver and transmitter simultaneously. DM Lite devices are not compatible with PoE or PoDM.
- The HDMI output requires an appropriate adapter or interface cable to accommodate a DVI signal. [CBL-HD-DVI](#) interface cables are available separately.

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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 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.

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HDMI

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