

Wall Plate DigitalMedia™ CAT Transmitter

- > DigitalMedia™ CAT transmitter and HDMI® interface
- > DM® CAT output supports up to 175 ft (53 m) cable length^[1]
- > Provides a single HDMI digital video/audio input
- > Also supports DVI and DisplayPort Multimode sources^[3]
- > Handles HD video with 3D and HDCP
- > Handles Dolby® TrueHD, DTS-HD Master Audio™, and uncompressed 7.1 linear PCM audio
- > Compact 1-gang wall box mount design
- > Also fits in a typical 6" deep floor box
- > Available in black or white finish
- > Powered over the DMNet® connection

The DM-TX1-1G is a DM® CAT transmitter that installs in a single-gang electrical box to provide a convenient interface for computers and high-definition AV sources as part of a complete Crestron® DigitalMedia™ system. The DM-TX1-1G is ideal for wall, lectern, and floor box applications in a boardroom, classroom, auditorium, or residence. It provides a single HDMI® input and connects to the head end using a single Crestron DM cable^[1]. Standard gang-box mounting allows for installation adjacent to an Ethernet jack (Crestron MP-WP183 or equivalent) for a total connectivity solution^[2].

Note: the DM-TX1-1G has a reduced feature set relative to other DM transmitters. It must be connected directly to a DM-MD series switcher and does not support the use of repeaters. Please refer to the [Crestron DigitalMedia Design Guide, Doc. #4546](#) for a full overview of the complete DM product line.

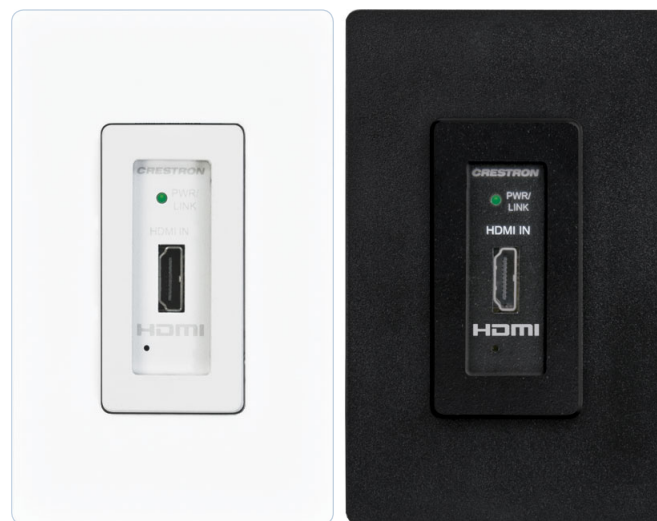
DigitalMedia™

As the leader in HDMI and control system technologies, Crestron developed DigitalMedia (DM) to deliver the first complete HD AV distribution system to take HDMI to a higher level. DigitalMedia allows virtually any mix of HDMI and other AV sources to be distributed throughout a home, office, school, or virtually any other facility. The DM-TX1-1G distributes uncompressed digital video and audio signals up to 175 feet (53 m) using Crestron DM cable^[1].

Multimedia Computer/AV Interface

Via its HDMI input, the DM-TX1-1G handles HD 1080p60 video and WUXGA computer signals with HDCP, 3D, and multi-channel HD lossless audio. It can also handle DVI and DisplayPort Multimode signals using an appropriate adapter or interface cable^[3].

A single DM CAT output is provided for connection to a DM switcher.^[1] As part of a complete DM system, multiple DM-TX1-1Gs may be installed to enable the distribution of several sources at different locations to feed multiple displays throughout any room or larger facility.



Shown in white and black, faceplates not included

Simple Wall Box Mounting

The DM-TX1-1G is designed to be installed using a 1-gang electrical box or plaster ring, or attached to a single rack rail in the back of an equipment cabinet. It also fits a 1-gang opening in a typical 6" deep floor box. The DM cable is terminated to the rear of the transmitter using screw terminals. The unit is powered via the DMNet® connection.

Please refer to the [DigitalMedia Resources Webpage at <http://www.crestron.com/dmresources/>](#) for additional design tools and reference documents.

SPECIFICATIONS

Video

Input Signal Type: HDMI®, DVI^[3], DisplayPort Multimode^[3]

Output Signal Type: DM® CAT (DigitalMedia™ over twisted-pair copper wire)

Formats: HDMI with 3D, DVI, HDCP content protection support

Input Resolutions, Progressive: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 852x480@60Hz, 854x480@60Hz, 1024x768@60Hz, 1024x852@60Hz, 1024x1024@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1365x1024@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@24Hz (1080p24), 1920x1080@25Hz (1080p25), 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1080@24Hz, 2048x1152@60Hz, plus any other resolution allowed by HDMI up to 165MHz pixel clock

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DM-TX1-1G – Left, Front, and Right Views

Input Resolutions, Interlaced: 720x480@30Hz (480i), 720x576@25Hz (576i), 1920x1080@25Hz (1080i25), 1920x1080@30Hz (1080i30), plus any other resolution allowed by HDMI up to 165MHz pixel clock

Output Resolutions: Matched to input

Audio

Input Signal Type: HDMI, DisplayPort Multimode^[3]

Output Signal Type: DM CAT

Formats: Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio™, Up to 8ch PCM

Communications

DigitalMedia: DM CAT, DMNet®

Connectors – Front

HDMI IN: (1) 19-pin Type A HDMI female;

HDMI digital video/audio input;

Also supports DVI and DisplayPort Multimode^[3]

Connectors – Rear

D, M: (1) DM CAT output composed of (16) captive screw terminals with (2) grounded strain reliefs;

Connects to DM CAT input of a DM switcher via DM-CBL cable^[1]

G B A 24: (1) DMNet port composed of (4) captive screw terminals;

Connects to DMNet port of a DM switcher via DM-CBL cable^[1]

G: (1) Flying lead, chassis ground connection

DM Cable Length

Maximum length^[1]:

175 ft (53 m) for 720p, 1080i, 1080p24

175 ft (53 m) for 1024x768 @75Hz

125 ft (38 m) for 1080p60

125 ft (38 m) for 1280x1024 @75Hz

125 ft (38 m) for 1920x1200 @60Hz

100 ft (30 m) for 1600x1200 @60Hz

Controls & Indicators

PWR/LINK: (1) dual-color amber/green LED, amber indicates operating power supplied via DMNet, green indicates HDMI input signal presence/lock status

RESET: (1) miniature recessed pushbutton for hardware reset

SW1, SW2 (rear): (2) Toggle switches, used to enable DMNet slave mode to allow firmware update directly from a control system

Power Requirements

DMNet Power Usage: 4 Watts (0.17 Amps @ 24 Volts DC)

Environmental

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

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 14 BTU/Hr

Enclosure

Construction: Metal

Flush Mount: Mounts in a 1-gang electrical box or in a 1-gang opening in a typical 6 inch deep floor box, 2.5 inch minimum mounting depth required, decorator style faceplate not included

Rack Mount: Mountable to a single 19-inch EIA rack rail

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Dimensions

Height: 4.12 in (105 mm)

Width: 1.72 in (44 mm)

Depth: 2.09 in (53 mm)

Weight

5.9 oz (166 g)

MODELS & ACCESSORIES

Available Models

DM-TX1-1G: Wall Plate DigitalMedia™ CAT Transmitter, Black Textured

DM-TX1-1G-W-T: Wall Plate DigitalMedia™ CAT Transmitter, White Textured

Available Accessories

DM-CBL-NP: DigitalMedia™ Cable, non-plenum

DM-CBL-P: DigitalMedia™ Cable, plenum-rated

CBL Series: Crestron® Certified Interface Cables

MP-WP183: Media Presentation Wall Plate - Ethernet

Notes:

1. For DigitalMedia CAT wiring, use [DM-CBL](#) DigitalMedia Cable. DM CAT Repeaters (Model [DM-DR](#)) are not supported. Refer to the [Crestron DigitalMedia Design Guide, Doc. #4546](#) for complete system design guidelines.
2. The DM-TX1-1G does not include an external Ethernet port. Local Ethernet connectivity for external devices requires a [MP-WP183](#) or equivalent Ethernet jack with a dedicated LAN connection.
3. HDMI requires an appropriate adapter or interface cable to accommodate a DVI or DisplayPort Multimode signal. [CBL-HD-DVI](#) interface cables 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 www.crestron.com/salesreps or by calling 800-237-2041.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

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

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