

Wall Plate DigitalMedia™ CAT Receiver

- > DigitalMedia™ CAT receiver and HDMI® display interface
- > DM® CAT input supports up to 425 ft (130 m) cable length^[1]
- > Provides one HDMI® or DVI display output^[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-RX1-1G is a DM® CAT receiver that installs in a single-gang electrical box to provide a convenient interface for a single display device as part of a complete Crestron® DigitalMedia™ system. The DM-RX1-1G is ideal for wall, lectern, and floor box applications in a boardroom, classroom, auditorium, or residence. It provides a single HDMI® output 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].



Shown in white and black, faceplates not included

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-RX1-1G distributes uncompressed digital video and audio signals 425 feet (130 m) using Crestron DM cable^[1].

Multimedia Display Interface

A single HDMI digital AV output port is provided on the DM-RX1-1G, supporting HD 1080p60 video and WUXGA computer signals with HDCP, 3D, and multi-channel HD lossless audio — all through one connection. The HDMI output can also handle DVI signals using an appropriate adapter or interface cable^[3].

A single DM cable connects the DM-RX1-1G to a DM switcher or transmitter.^[1] Multiple DM-RX1-1Gs may be installed to handle each display in a multiroom distribution system, all fed from a central DM-MD series switcher. Or, a single DM-RX1-1G can be fed straight from a DM CAT transmitter to provide a simple solution for extending a computer or AV signal to a single display.^[4]

Simple Wall Box Mounting

The DM-RX1-1G 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 receiver 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: DM® CAT (DigitalMedia™ over twisted-pair copper wire)

Output Signal Type: HDMI®, DVI^[3]

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

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: DM CAT

Output Signal Type: HDMI

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®

DM-RX1-1G Wall Plate DigitalMedia™ CAT Receiver



DM-RX1-1G – Left, Front, and Right Views

Connectors – Front

HDMI OUT: (1) 19-pin Type A HDMI female;
HDMI digital video/audio output;
Also supports DVI^[3]

Connectors – Rear

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

Connects to DM CAT output 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 without repeaters, or after last repeater:

- 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

Maximum length between or before repeaters:

- 200 ft (60 m) for 720p, 1080i, 1080p24
- 200 ft (60 m) for 1024x768 @75Hz
- 150 ft (45 m) for 1080p60
- 150 ft (45 m) for 1280x1024 @75Hz
- 150 ft (45 m) for 1920x1200 @60Hz
- 125 ft (38 m) for 1600x1200 @60Hz

Maximum total length using up to 2 repeaters:

- 425 ft (130 m) for 720p, 1080i, 1080p24
- 425 ft (130 m) for 1024x768 @75Hz
- 425 ft (130 m) for 1080p60
- 425 ft (130 m) for 1280x1024 @75Hz
- 425 ft (130 m) for 1920x1200 @60Hz
- 350 ft (106 m) for 1600x1200 @60Hz

Controls & Indicators

PWR/LINK: (1) dual-color amber/green LED, amber indicates operating power supplied via DMNet, green indicates DM link status

RESET: (1) miniature recessed pushbutton for hardware reset

Power Requirements

DMNet Power Usage: 5 Watts (0.21 Amps @ 24 Volts DC)

Environmental

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

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

Heat Dissipation: 17 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-RX1-1G: Wall Plate DigitalMedia™ CAT Receiver, Black Textured

DM-RX1-1G-W-T: Wall Plate DigitalMedia™ CAT Receiver, White Textured

Available Accessories

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

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

DM-DR: DigitalMedia™ CAT Repeater

CBL Series: Crestron® Certified Interface Cables

MP-WP183: Media Presentation Wall Plate - Ethernet

Notes:

1. For DigitalMedia CAT wiring, use [DM-CBL](#) DigitalMedia Cable. Up to two DM CAT Repeaters (Model [DM-DR](#)) may be required. Refer to the [Crestron DigitalMedia Design Guide, Doc. #4546](#) for complete system design guidelines. All cable sold separately.
2. The DM-RX1-1G 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 signal. [CBL-HD-DVI](#) interface cable available separately.
4. Connection to a [DM-TX1-1G](#), [DM-TX-200](#), [DM-TX-200-2G](#), or [DM-TX-400-3G](#) transmitter is only supported through a DM switcher. Direct connection to a [DM-TX-100](#) or [DM-TX-300N](#) transmitter is allowed.

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.

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