

2-Channel DigitalMedia™ CAT Output Card for DM® Switchers

- > Modular output card for a DM-MD8X8, DM-MD16X16, or DM-MD32X32 switcher
- > Provides two independent DM® CAT outputs
- > Supports cable lengths of 50 to 450 feet (15 to 137 m) using Crestron DM Cable and up to two DM CAT Repeaters^[1]
- > Includes a parallel HDMI® port on the first output
- > Handles video resolutions up to Full HD 1080p
- > Handles computer resolutions up to WUXGA
- > Handles 3D video and Deep Color
- > Handles Dolby® TrueHD, DTS-HD®, and uncompressed 7.1 linear PCM audio
- > HDCP compliant
- > Occupies a single output card slot



The DMC-CATO-HD is an output card designed for use with any card-based Crestron® DigitalMedia™ Switcher. It provides two independent DM® CAT outputs, plus one HDMI® output. The HDMI output carries the same signal as the first DM CAT output. Each DM CAT output enables connection to a DM CAT Receiver, a V-Panel™ touch screen display, or the input of another DM switcher, using [DigitalMedia cable](#).^[1]

All outputs on the DMC-CATO-HD are capable of handling video resolutions up to Full HD 1080p, as well as computer resolutions up to WUXGA. DM CAT transports uncompressed high-definition video and computer signals over distances of 50 to 450 feet (15 to 137 m) using Crestron [DigitalMedia Cable](#) and up to two [DigitalMedia CAT Repeaters](#).^[1]

Receivers connected to the DMC-CATO-HD are powered via DMNet® power, which is furnished by the DM switcher over the DMNet cable contained within the DigitalMedia cable. Each DMNet cable connects to a DMNet port located on the switcher's rear panel.^[2]

To configure a DM switcher complete with input and output cards, cables, and other peripherals, please use the online [DigitalMedia Switcher Configuration Tool](#).

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

SPECIFICATIONS

Maximum Cable Lengths

Resolution:	Cable Type: DM-CBL DigitalMedia™ Cable	
	Maximum length without, between, before, or after repeaters	Maximum total length using up to 2 repeaters
720p, 1080i, 1080p24	200 ft (60 m)	450 ft (137 m)
1024x768 @75Hz		
1080p60	150 ft (45 m)	
1280x1024 @75Hz		
1920x1200 @60Hz		
1600x1200 @60Hz	125 ft (38 m)	375 ft (114 m)
1080p60 Deep Color	50 ft (15 m)	150 ft (45 m)

Video

Signal Types: DM® CAT (DigitalMedia over shielded twisted pair copper wire), HDMI®, DVI^[3]

Formats: DM CAT & HDMI with Deep Color & 3D; HDCP content protection support

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

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

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Audio

Signal Types: DM CAT, 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®, HDCP, EDID, CEC, Ethernet

HDMI: HDCP, EDID, CEC

Connectors

D, M: (4) 8-pin RJ45 female, shielded, comprising (2) DM CAT outputs; Each DM CAT output connects to the DM CAT input of a DM receiver or other DM device via DM-CBL DigitalMedia cable ^[1]

HDMI: (1) 19-pin Type A HDMI, female;
HDMI digital video/audio output, DVI compatible^[3];
Outputs same signal as the left DM CAT output

Construction

Plug-in card, occupies (1) DM switcher output card slot, includes metal faceplate w/black finish

Weight

6.2 oz (176 g)

MODELS & ACCESSORIES

Available Models

DMC-CATO-HD: 2-Channel DigitalMedia™ CAT Output Card for DM® Switchers

Available Accessories

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

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

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

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

DM-CONN: DigitalMedia™ Cable Connector

DM-DR: DigitalMedia™ CAT Repeater

CBL Series: Crestron® Certified Interface Cables

MP-WP Series: Media Presentation Wall Plates

MPI-WP Series: Media Presentation Wall Plates - International Version

Notes:

1. The maximum cable length for DigitalMedia CAT (DM CAT) is 450 ft (137 m) using [DM-CBL](#) DigitalMedia Cable. The actual cable length depends upon multiple factors. 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 wire, cables, and repeaters are sold separately.
2. Refer to the host switcher's spec sheet for additional requirements for supplying DMNet power.
3. DVI is supported via the HDMI output using a suitable adapter or interface cable. [CBL-HD-DVI](#) 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 www.crestron.com/salesreps or by calling 800-237-2041.

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

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