

2-Channel DigitalMedia 8G+™ Output Card for DM® Switchers

- > Modular output card for a DM-MD8X8, DM-MD16X16, or DM-MD32X32 switcher
- > Provides two independent DM 8G+™ outputs
- > Supports cable lengths up to 330 ft (100 m) using DM 8G® cable or CAT5e^[1]
- > HDBaseT® Certified — Enables direct connection to other HDBaseT certified equipment
- > 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
- > Supports PoDM and PoH^[2]
- > Occupies a single output card slot



The DMC-CO-HD is an output card designed for use with any card-based Crestron® DigitalMedia™ Switcher. It provides two independent DM 8G+™ outputs, plus one HDMI® output. The HDMI output carries the same signal as the first DM 8G+ output. Both DM 8G+ outputs are compatible with HDBaseT®. Each DM 8G+ output enables connection to a DM 8G+ receiver, the input of another DM® switcher, or an HDBaseT certified display device or receiver, using a single CAT type twisted pair cable.^[1] Power over DM (PoDM) is supplied through the same connection, providing a centralized power source for PoDM compatible receivers.^[2]

All outputs on the DMC-CO-HD are capable of handling video resolutions up to Full HD 1080p, as well as computer resolutions up to WUXGA. DM 8G+ transports uncompressed high-definition video and computer signals over distances up to 330 feet (100 m) using Crestron **DM 8G® Cable** or CAT5e.^[1]

*NOTE: For applications requiring support for video resolutions beyond 1080p or WUXGA, including 4K and Ultra HD, refer to model **DMC-4K-CO-HD**.*

Crestron DigitalMedia 8G+ technology is designed using HDBaseT Alliance specifications, ensuring interoperability with other HDBaseT certified products. Either DM 8G+ output can be connected directly to an HDBaseT compliant device without requiring a DM receiver.

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

Video

Signal Types: DM 8G+™ (DigitalMedia™ over one CAT type twisted pair copper wire), HDBaseT®, HDMI®, DVI^[3]

Formats: DM 8G+, HDBaseT, & 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

Audio

Signal Types: DM 8G+, HDBaseT, 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 8G+, HDCP, EDID, CEC, PoDM, Ethernet

HDBaseT: HDCP, EDID, PoH, Ethernet

HDMI: HDCP, EDID, CEC

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Connectors

DM OUT: (2) 8-pin RJ45 female, shielded, comprising (2) DM 8G+ outputs (HDBaseT compliant);

PoDM and PoH PSE (Power Sourcing Equipment) ports^[2];

Each connects to the DM 8G+ input of a DM receiver or other DM device, or to a HDBaseT device, via CAT5e or Crestron DM-CBL-8G DigitalMedia 8G cable^[1]

POE IN: (2) 8-pin RJ45 female comprising (2) PoE inputs;

Each connects to one port of a DM-PSU-8 or DM-PSU-16 PoDM Power Supply, or 802.3af or 802.3at compliant PoE PSE (Power Sourcing Equipment), to enable PoDM and PoH power sourcing via the corresponding DM 8G+ output^[2]

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

HDMI digital video/audio output, DVI compatible^[3];

Outputs same signal as the left DM 8G+ output

Indicators

DM OUT: (4) LEDs, green LEDs indicate DM link status, amber LEDs indicate video and HDCP signal presence, for each corresponding DM 8G+ 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-CO-HD: 2-Channel DigitalMedia 8G+™ Output Card for DM® Switchers

Available Accessories

DM-PSU-8: 8-Port PoDM Power Supply for DM® Switchers

DM-PSU-16: 16-Port PoDM Power Supply for DM® Switchers

DM-CBL-8G-NP: DigitalMedia 8G™ Cable, non-plenum

DM-CBL-8G-P: DigitalMedia 8G™ Cable, plenum

DM-8G-CONN: DigitalMedia 8G™ Cable Connector

DM-8G-CRIMP: Crimping Tool for DM-8G-CONN

DM-8G-CONN-WG: DigitalMedia 8G™ Cable Connector with Wire Guide

DM-8G-CRIMP-WG: Crimping Tool for DM-8G-CONN-WG

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 8G+ (DM 8G+) or HDBaseT is 330 ft (100 m) using [DM-CBL-8G](#) DigitalMedia 8G cable, [DM-CBL](#) DigitalMedia Cable, [DM-CBL-D](#) DigitalMedia D Cable, or third-party CAT5e (or better) UTP or STP. Shielded cable and connectors are recommended to safeguard against unpredictable environmental electrical noise which may impact performance at resolutions above 1080p. Refer to the [Crestron DigitalMedia Design Guide, Doc. #4546](#) for complete system design guidelines. DM 8G+ is compatible with HDBaseT Alliance specifications for connecting to HDBaseT compliant equipment. All wire and cables are sold separately.
2. Supplying Power over DM (PoDM) or Power over HDBaseT (PoH) via either DM 8G+ output requires connection of the corresponding POE IN port to a PoDM Power Supply ([DM-PSU-8](#) or [DM-PSU-16](#), sold separately) or an 802.3af or 802.3at compliant PoE PSE. Refer to the connected DM 8G+ or HDBaseT device for its PoDM or PoH capabilities and requirements. Any wiring that is connected to a PoDM, PoH, or PoE PSE port is for intra-building use only and should not be connected to a line that runs outside of the building in which the PSE is located.
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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