

2-Channel DigitalMedia 8G™ Single-Mode Fiber Output Card for DM® Switchers

- > Modular output card for a DM-MD8X8, DM-MD16X16, or DM-MD32X32 switcher
- > Provides two independent DM 8G® Single-Mode Fiber outputs
- > Supports cable lengths up to 7.5 miles (12 km) using CresFiber® 8G SM or G.652.D single-mode fiber^[1]
- > Includes a parallel HDMI® port on the first output
- > Handles video resolutions up to Full HD 1080p
- > Handles computer resolutions up to UXGA and 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-S20-HD is an output card designed for use with any card-based Crestron® DigitalMedia™ Switcher. It provides two independent DM 8G® SM Fiber outputs, plus one HDMI® output. The HDMI output carries the same signal as the first DM 8G SM Fiber output. Each DM 8G SM Fiber output enables connection to a DM 8G SM Fiber Receiver, or the input of another DM® switcher. Using a single strand of single-mode fiber.^[1]

All outputs on the DMC-S20-HD are capable of handling video resolutions up to Full HD 1080p, as well as computer resolutions up to WUXGA. DM 8G SM Fiber transports uncompressed high-definition video and computer signals over distances up to 7.5 miles (12 km) using [CresFiber® 8G SM](#) or G.652.D single-mode fiber optic cable.^[1]

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® SM Fiber (DigitalMedia™ over one single-mode fiber optic strand), HDMI®, DVI^[2]

Formats: DM 8G SM Fiber & 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 SM Fiber, 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 SM Fiber, HDCP, EDID, CEC, Ethernet

HDMI: HDCP, EDID, CEC

Connectors

SMF/LC: (2) LC female optical fiber connectors comprising (2) DM 8G Single-Mode Fiber outputs;

Each connects to the DM 8G SM Fiber input of a DM receiver or other DM device via CresFiber® 8G SM single-mode fiber optic cable^[1]

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

HDMI digital video/audio output, DVI compatible^[2];

Outputs same signal as the left DM 8G SM Fiber output

Indicators

SMF/LC: (2) green LEDs, indicate DM link status for each corresponding DM 8G SM Fiber output

Construction

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

DMC-S20-HD 2-Channel DigitalMedia 8G™ Single-Mode Fiber Output Card for DM® Switchers

Weight

6.2 oz (176 g)

MODELS & ACCESSORIES

Available Models

DMC-S20-HD: 2-Channel DigitalMedia 8G™ Single-Mode Fiber Output Card for DM® Switchers

Available Accessories

CRESFIBER8G-SM-P-SP2KM: CresFiber® 8G Single-Mode Fiber Optic Cable, plenum, 2 km spool

CRESFIBER8G-SM-CONN-LC-12: CresFiber® 8G Single-Mode Fiber Optic Cable Connector, LC, 12-Pack

CRESFIBER-TK: CresFiber® Termination Kit (AFL Telecommunications®)

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 Single-Mode Fiber (DM 8G SM Fiber) is 7.5 miles (12 km) using [CRESFIBER8G-SM](#) or third-party G.652.D (or better) simplex single-mode fiber optic cable. Refer to the [Crestron DigitalMedia Design Guide, Doc. #4546](#) for complete system design guidelines. All wire and cables are sold separately.
2. 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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