

DigitalMedia 8G™ Fiber Input Card for DM® Switchers

- > Modular input card for a DM-MD8X8, DM-MD16X16, or DM-MD32X32 switcher
- > Provides a single DM 8G® Fiber input
- > Supports cable lengths up to 1000 ft (300 m) using CresFiber® 8G, or 500 ft (150 m) using other multimode fiber^[1]
- > 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
- > Includes an HDMI® output for pass-through of the input signal
- > Includes a stereo analog line-level audio output with volume control^[2]
- > Allows extraction of stereo 2-channel audio signals
- > Occupies a single DM switcher input card slot
- > Provides a rack-mountable DM 8G Fiber receiver solution using the optional DMCI card interface^[3]

The DMC-S is an input card designed for use with any card-based Crestron® DigitalMedia™ Switcher. It provides one DM 8G® Fiber input, with associated HDMI® pass-through and analog audio outputs. The DM 8G Fiber input enables the connection of a DM 8G Fiber transmitter, or the output of another DM® switcher, using a single strand of multimode fiber.^[1]

NOTE: Refer to model [DMC-S-DSP](#) for use with surround sound sources.

DigitalMedia 8G™ Fiber

Engineered for ultra high-bandwidth and ultimate scalability, DigitalMedia 8G Fiber (DM 8G Fiber) provides a true one-wire lossless transport for moving high-definition video, audio, Ethernet, and control signals over multimode fiber. DM 8G Fiber handles uncompressed Full HD 1080p video signals with support for HDCP, Deep Color, 3D, and high-bitrate 7.1 audio, as well as computer signals up to WUXGA. All signals are transported over one strand of multimode fiber, supporting distances up to 1000 feet (300 m) using [CresFiber® 8G](#), or 500 feet (150 m) using other multimode fiber optic cable.^[1]

HDMI® Pass-Through

Every DM switcher input card includes an HDMI output port, which can be used to pass the input signal through to a local audio processor or video monitor, or to feed a second DM switcher for output expansion purposes.

Audio Extracting

The DMC-S also includes an unbalanced analog audio output, allowing stereo audio signals to be extracted from the digital input and fed to a multiroom audio distribution system. The output volume is adjustable via a control system using a keypad, touch screen, handheld remote, or mobile device.^[2]



NOTE: For applications requiring the simultaneous distribution of multi-channel surround sound and 2-channel stereo audio signals, use model [DMC-S-DSP](#).

Standalone DM 8G Fiber Receiver

In addition to its use as an input card for DM switchers, the DMC-S may also be used with the [DMCI DigitalMedia Card Interface](#)^[3] to provide a DM 8G Fiber receiver solution that's perfect for installation in an equipment rack or AV cart, or as a portable display interface.

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

Input Signal Types: DM 8G® Fiber (DigitalMedia™ over one multimode fiber optic strand)^[1]

Output Signal Types: HDMI® or DVI^[4] to switcher backplane and HDMI OUT connector

Formats: DM 8G Fiber & HDMI w/Deep Color & 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),

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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 Types: DM 8G Fiber

Output Signal Types: HDMI (multichannel) to switcher backplane and
HDMI OUT connector, analog stereo 2-channel^[2], allows audio breakaway

Digital 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

Analog Format: Stereo 2-channel

Digital-To-Analog Conversion: 24-bit 48 kHz

Performance (analog): Frequency Response: 20Hz to 20kHz ±0.5dB;
S/N Ratio: >95dB, 20Hz to 20kHz A-weighted;
THD+N: <0.005% @ 1kHz;
Stereo Separation: >90dB

Volume Gain Range (analog): -80dB to 0dB

Communications

DigitalMedia: DM 8G Fiber, HDCP, EDID, CEC, Ethernet

HDMI: HDCP, EDID, CEC

Connectors

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

HDMI digital video/audio output;

Also supports DVI^[4]

DM IN MMF/SC: (1) SC female optical fiber connector;

DM 8G Fiber input;

Connects to the DM 8G Fiber output of a DM transmitter or other DM
device via CRESFIBER8G multimode fiber optic cable^[1]

AUDIO OUT: (2) RCA female;

Unbalanced stereo line-level audio output^[2];

Output Impedance: 100 Ohms nominal;

Maximum Output Level: 2 Vrms

Indicators

DM IN MMF/SC: (1) green LED, indicates DM link status

Construction

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

Weight

8.0 oz (227 g)

MODELS & ACCESSORIES

Available Models

DMC-S: DigitalMedia 8G™ Fiber Input Card for DM® Switchers

Available Accessories

CRESFIBER8G-NP: CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4
breakout, non-plenum

CRESFIBER8G-P: CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4
breakout, plenum

CRESFIBER-CONN-SC50UM-12: CresFiber® Fiber Optic Cable Connector
(AFL Telecommunications®), SC 50µm, 12-Pack

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

CRESFIBER-SINGLE-SC-P: CresFiber® Simplex Fiber Optic Cable
Assembly, 50/125, SC, Plenum

CRESFIBER-SINGLE-SC-ARMORED-P: CresFiber® ARMORED Simplex
Fiber Optic Cable Assembly, 50/125, SC, Armored, Plenum

CRESFIBER-SINGLE-SC-CLEAR-NP: CresFiber® CLEAR Simplex Fiber
Optic Cable Assembly, 50/125, SC, Non-Plenum

CBL Series: Crestron® Certified HDMI® Interface Cable

MP-WP Series: Media Presentation Wall Plates

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

DMCI: DigitalMedia™ Card Interface

Notes:

1. The maximum cable length for DigitalMedia 8G Fiber (DM 8G Fiber) is 1000 ft (300 m) using Crestron **CRESFIBER8G** multimode fiber optic cable, or 500 ft (150 m) using Crestron **CRESFIBER**, Crestron **CRESFIBER-SINGLE-SC**, or third-party OM3 simplex multimode 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. The analog stereo audio output is only active when the input source is outputting a 2-channel stereo signal. For applications using a multichannel surround sound source, use model **DMC-S-DSP** which provides simultaneous surround sound and stereo downmix output signals.
3. Item(s) sold separately.
4. 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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