

DigitalMedia 8G™ Single-Mode Fiber Input Card for DM® Switchers

The DMC-S2 is an input card for a Crestron® DigitalMedia™ Switcher, providing one DM 8G® SM Fiber input. The DM 8G SM Fiber input enables the connection of a DM 8G SM Fiber Transmitter, or the output of another DM® switcher. Just one single-mode fiber optic strand is required, supporting distances up to 7.5 miles (12 km) using [CresFiber® 8G SM](#) or G.652.D single-mode fiber.^[1]

In addition to the DM 8G SM Fiber input, the DMC-S2 also includes HDMI® and stereo analog audio outputs. The HDMI output 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. The analog audio output, which features programmable volume control, breaks out the stereo audio signal from the DM 8G SM Fiber input and passes it through to feed a multi-room audio distribution system.^[2]

NOTE: For applications requiring the simultaneous distribution of surround sound and 2-channel audio signals, use model [DMC-S2-DSP](#).

The DMC-S2 may also be used with the [DMCI](#) DigitalMedia Card Interface to provide a DM 8G SM Fiber receiver solution that's perfect for installation in an equipment rack or AV cart, or as a portable display interface. As a DM 8G SM Fiber receiver, and as a DM switcher input card, the DMC-S2 enables EDID signal detection and format management, CEC device control, and audio breakaway.

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® SMF (DigitalMedia™ over one single-mode fiber optic strand)^[1]

Output Signal Types: HDMI® or DVI^[3] to switcher backplane and HDMI OUT connector

Formats: 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), 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 inputs



Audio

Input Signal Types: DM 8G SMF

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

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

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

Connectors

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

DM IN SMF/LC: (1) LC female optical fiber connector;
DM 8G Single-Mode Fiber input;
Connects to the DM 8G SMF output of a DM transmitter or other DM device via CRESFIBER8G-SM single-mode fiber optic cable^[1]

AUDIO OUT: (2) RCA female;
Unbalanced stereo line-level audio output with level control^[2];
Maximum Output Level: 2 Vrms;
Output Impedance: 100 Ohms nominal

Indicators

DM IN SMF/LC: (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)

DMC-S2 DigitalMedia 8G™ Single-Mode Fiber Input Card for DM® Switchers

MODELS & ACCESSORIES

Available Models

DMC-S2: DigitalMedia 8G™ Single-Mode Fiber Input Card for DM® Switchers

Available Accessories

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

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 Cable

MP-WP Series: Media Presentation Wall Plates

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

DMCI: DigitalMedia™ Card Interface



Notes:

1. For DM 8G SMF wiring up to 7.5 miles (12 km) between devices, use Crestron [CRESFIBER8G-SM](#) or generic G.652.D (or better) single-mode fiber optic cable. Refer to the [Crestron DigitalMedia Design Guide, Doc. #4546](#) for complete system design guidelines. All wire and cables 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 multi-channel surround sound source, use model [DMC-S2-DSP](#) which provides simultaneous surround sound and stereo down-mix output signals.
3. HDMI requires an appropriate adapter or interface cable to accommodate a DVI signal. [CBL-HD-DVI](#) interface cables 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.

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