

DMC-S2

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

The DMC-S2 is an input card for a Crestron® DigitalMedia™ Switcher, providing one DigitalMedia 8G™ Single-Mode Fiber (DM 8G® SMF) input. The DM 8G SMF input allows one DM® switcher to receive a DM 8G signal from another DM switcher located in a separate room or building. 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]

Additional AV connections on the card include HDMI® and stereo analog audio outputs. The HDMI output simply passes the input signal through to feed a local device, 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 input and passes it through to feed a [Sonnex™](#), [Adagio®](#), or other multi-room audio distribution system.

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 compact DM 8G SMF receiver solution in lieu of a switcher. As a DM 8G SMF 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 single-mode fiber optic cable)

Output Signal Types: HDMI® or DVI^[2] 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, 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 ± 0.5 dB;
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^[2]

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

AUDIO OUT: (2) RCA female;
Unbalanced stereo line-level audio output with level control;
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

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

CBL-HD: Crestron® Certified HDMI® Interface Cable

CBL-HD-DVI: Crestron® Certified HDMI® to DVI Interface Cable

CBL-RCA2: Crestron® Certified RCA Stereo Audio Interface Cable

MP-WP140: Media Presentation Wall Plate - DVI-I w/Mini-TRS Stereo Audio

MP-WP152: Media Presentation Wall Plate - HDMI®

MPI-WP150: Media Presentation Wall Plate - International Version - HDMI® w/Mini-TRS Stereo Audio

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 [DigitalMedia Infrastructure Guide, Doc. #4556](#) for complete wiring guidelines, and the [Crestron DigitalMedia Design Guide, Doc. #4789](#) for complete system design guidelines. All cable sold separately.
2. 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.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

Crestron, the Crestron logo, Adagio, DigitalMedia, DigitalMedia 8G, DM, DM 8G, and Sonnex are trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and other countries. Dolby, Dolby Digital, and the double-D symbol are either trademarks or registered trademarks of Dolby Laboratories in the United States and/or other countries. DTS, DTS-HD Master Audio, and the DTS logos and Symbol are either trademarks or registered trademarks of DTS, Inc. in the United States and/or other countries. HDMI and the HDMI Logo are either trademarks or registered trademarks of HDMI Licensing LLC in the United States and/or other countries. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. ©2011 Crestron Electronics, Inc.