

## DigitalMedia™ Fiber Input Card for DM® Switchers

The DMC-F is an input card for a Crestron® DigitalMedia Switcher, providing one optical fiber type DigitalMedia (DM) input. The DM Fiber input enables the connection of a DM transmitter, or the output of another DM switcher, with a potential cable length up to 1000 feet (300 m) using multimode fiber optic cable<sup>[1]</sup>.

Additional 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-F-DSP.

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

### SPECIFICATIONS

#### Video

**Input Signal Types:** DM Fiber (DigitalMedia over multimode fiber optic cable)  
**Output Signal Types:** HDMI® or DVI<sup>[2]</sup> 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 Fiber

**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

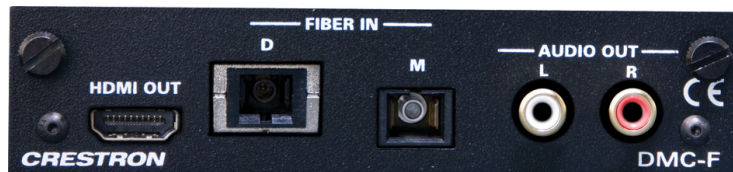
**Performance (analog):** Frequency Response: 20Hz to 20kHz ±0.5dB;

S/N Ratio: >95dB, 20Hz to 20kHz A-weighted;

THD+N: <0.005% @ 1kHz;

Stereo Separation: >90dB

**Volume Gain Range (analog):** -80dB to 0dB, adjustable from 0% to 100%



#### Connectors

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

HDMI digital video/audio output;

Also supports DVI<sup>[2]</sup>

**FIBER IN:** (1) DM Fiber input composed of (2) SC female optical fiber connectors;

Connects to DM Fiber output of a DM switcher, transmitter, or other DM device via CresFiber 8G fiber optic cable<sup>[1]</sup>

**AUDIO OUT:** (2) RCA female;

Unbalanced stereo line-level audio output with level control;

Maximum Output Level: 2 Vrms;

Output Impedance: 100 Ohms nominal

#### Construction

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

#### Weight

8.0 oz (227 g)

#### Available Models

**DMC-F:** DigitalMedia™ Fiber Input Card for DM Switchers

#### Available Accessories

**CRESFIBER8G-NP-SP500:** CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, non-plenum, 500 ft spool

**CRESFIBER8G-NP-SP1000:** CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, non-plenum, 1000 ft spool

**CRESFIBER8G-P-SP500:** CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, plenum, 500 ft spool

**CRESFIBER8G-P-SP1000:** CresFiber® 8G Multimode Fiber Optic Cable, 50/125 x4 breakout, plenum, 1000 ft spool

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

**CRESFIBER-DUAL-SC-P-1.5:** CresFiber® Duplex Fiber Optic Cable Assembly, 50/125, SC, Plenum, 1.5 ft

**CRESFIBER-DUAL-SC-P-3:** CresFiber® Duplex Fiber Optic Cable Assembly, 50/125, SC, Plenum, 3 ft

**CRESFIBER-DUAL-SC-P-6:** CresFiber® Duplex Fiber Optic Cable Assembly, 50/125, SC, Plenum, 6 ft

**CRESFIBER-DUAL-SC-P-12:** CresFiber® Duplex Fiber Optic Cable Assembly, 50/125, SC, Plenum, 12 ft  
**CRESFIBER-DUAL-SC-P-20:** CresFiber® Duplex Fiber Optic Cable Assembly, 50/125, SC, Plenum, 20 ft  
**CRESFIBER-DUAL-SC-P-30:** CresFiber® Duplex Fiber Optic Cable Assembly, 50/125, SC, Plenum, 30 ft  
**CRESFIBER-DUAL-SC-ARMORED-P-60:** CresFiber® ARMORED Duplex Fiber Optic Cable Assembly, 50/125, SC, Armored, Plenum, 60 ft  
**CRESFIBER-DUAL-SC-ARMORED-P-100:** CresFiber® ARMORED Duplex Fiber Optic Cable Assembly, 50/125, SC, Armored, Plenum, 100 ft  
**CRESFIBER-DUAL-SC-ARMORED-P-200:** CresFiber® ARMORED Duplex Fiber Optic Cable Assembly, 50/125, SC, Armored, Plenum, 200 ft  
**CRESFIBER-DUAL-SC-ARMORED-P-300:** CresFiber® ARMORED Duplex Fiber Optic Cable Assembly, 50/125, SC, Armored, Plenum, 300 ft  
**CRESFIBER-SINGLE-SC-CLEAR-NP-30:** CresFiber® CLEAR Simplex Fiber Optic Cable Assembly, 50/125, SC, Non-Plenum, 30 ft  
**CRESFIBER-SINGLE-SC-CLEAR-NP-60:** CresFiber® CLEAR Simplex Fiber Optic Cable Assembly, 50/125, SC, Non-Plenum, 60 ft  
**CRESFIBER-SINGLE-SC-CLEAR-NP-100:** CresFiber® CLEAR Simplex Fiber Optic Cable Assembly, 50/125, SC, Non-Plenum, 100 ft  
**CBL-HD-1.5:** Crestron® Certified HDMI® Interface Cable, 1.5 ft  
**CBL-HD-3:** Crestron® Certified HDMI® Interface Cable, 3 ft  
**CBL-HD-6:** Crestron® Certified HDMI® Interface Cable, 6 ft  
**CBL-HD-12:** Crestron® Certified HDMI® Interface Cable, 12 ft  
**CBL-HD-20:** Crestron® Certified HDMI® Interface Cable, 20 ft  
**CBL-HD-30:** Crestron® Certified HDMI® Interface Cable, 30 ft  
**CBL-HD-DVI-1.5:** Crestron® Certified HDMI® to DVI Interface Cable, 1.5 ft  
**CBL-HD-DVI-3:** Crestron® Certified HDMI® to DVI Interface Cable, 3 ft  
**CBL-HD-DVI-6:** Crestron® Certified HDMI® to DVI Interface Cable, 6 ft  
**CBL-HD-DVI-12:** Crestron® Certified HDMI® to DVI Interface Cable, 12 ft  
**CBL-HD-DVI-20:** Crestron® Certified HDMI® to DVI Interface Cable, 20 ft  
**CBL-HD-DVI-30:** Crestron® Certified HDMI® to DVI Interface Cable, 30 ft  
**CBL-RCA2-1.5:** Crestron® Certified RCA Stereo Audio Interface Cable, 1.5 ft  
**CBL-RCA2-3:** Crestron® Certified RCA Stereo Audio Interface Cable, 3 ft  
**CBL-RCA2-6:** Crestron® Certified RCA Stereo Audio Interface Cable, 6 ft  
**CBL-RCA2-12:** Crestron® Certified RCA Stereo Audio Interface Cable, 12 ft  
**MP-WP152-B:** Media Presentation Wall Plate - HDMI®, Black  
**MP-WP152-W:** Media Presentation Wall Plate - HDMI®, White  
**MP-WP140-B:** Media Presentation Wall Plate - DVI-I w/Mini-TRS Stereo Audio, Black  
**MP-WP140-W:** Media Presentation Wall Plate - DVI-I w/Mini-TRS Stereo Audio, White  
**MP-WP186-B:** Media Presentation Wall Plate - DigitalMedia™ Fiber, Black  
**MP-WP186-W:** Media Presentation Wall Plate - DigitalMedia™ Fiber, White  
**DMCI:** DigitalMedia™ Card Interface

#### Notes:

1. The maximum DigitalMedia Fiber cable length is 1000 ft (300 m) using CRESFIBER, CRESFIBER8G, CRESFIBER-DUAL-SC, or generic OM2/OM3 duplex multimode fiber optic cable. Refer to the Crestron DigitalMedia Design Guide, Doc. #4789 for complete wiring guidelines.

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](http://www.crestron.com/salesreps) or by calling 800-237-2041.

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