

3G-SDI Input Card for DM[®] Switchers

- > Modular input card for a DM-MD8X8, DM-MD16X16, or DM-MD32X32 switcher
- > Provides a single SDI input with SDI loop-through
- > Accommodates SD-SDI, HD-SDI, and 3G-SDI video sources
- > Handles video resolutions up to Full HD 1080p
- > Handles 24-bit stereo audio signals^[1]
- > Includes an HDMI[®] output for pass-through of the input signal
- > Includes a stereo analog line-level audio output with volume control
- > Allows extraction of stereo audio signals
- > Occupies a single DM[®] switcher input card slot
- > Provides an SDI to HDMI convertor using the optional DMCI card interface^[3]

The DMC-SDI is an input card designed for use with any card-based Crestron[®] DigitalMedia[™] Switcher. It provides one SDI input, with complementary SDI loop-through, HDMI[®] pass-through, and analog audio outputs. The SDI input supports SD-SDI, HD-SDI and 3G-SDI formats, handling high-definition video signals up to 1080p60 and 2 channels of 24-bit digital audio^[1] through a single coaxial cable.

3G-SDI

Support for 3G-SDI enables DigitalMedia to accommodate signals from many high-end professional cameras, broadcast switchers, and other AV equipment. An SDI loop-through output is included for connection to a local monitor or other SDI device.

HDMI[®] Pass-Through

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

Audio Extracting

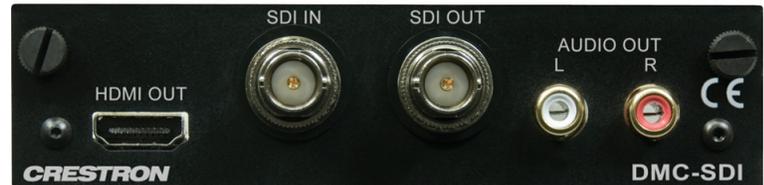
The DMC-SDI also includes an unbalanced analog audio output, allowing stereo audio signals to be extracted from the digital input and fed to a sound system or multiroom audio distribution system. The output volume is adjustable via a control system using a keypad, touch screen, handheld remote, or mobile device.^[1]

Standalone SDI to HDMI Converter

In addition to its use as an input card for DM switchers, the DMC-SDI may also be used with the DMCI DigitalMedia Card Interface^[2] to create a very handy problem-solving tool. It can be used to convert SDI video and audio to HDMI, or to extract an analog audio signal from an SDI source.

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: SDI

Output Signal Types: SDI (loop-through); HDMI[®] (DVI compatible^[2])

SDI Formats: SD-SDI (SMPTE 259M), HD-SDI (SMPTE 292M), 3G-SDI (SMPTE 424M)

Resolutions: SMPTE 425M (3G-SDI) 4:2:2 Colorspace: 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60);

SMPTE 425M (3G-SDI) 4:4:4 Colorspace: 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1920x1080@24Hz (1080p24), 1920x1080@25Hz (1080p25), 1920x1080@30Hz (1080p30), 1920x1080@50Hz (1080i50 or 1080sF25), 1920x1080@60Hz (1080i60 or 1080sF30);

SMPTE 260M (HD-SDI): 1920x1035@60Hz (1035i60);

SMPTE 295M (HD-SDI): 1920x1080@50Hz (1080i50);

SMPTE 274M (HD-SDI): 1920x1080@24Hz (1080p24), 1920x1080@25Hz (1080p25), 1920x1080@30Hz (1080p30), 1920x1080@50Hz (1080i50 or 1080sF25), 1920x1080@60Hz (1080i60 or 1080sF30);

SMPTE 296M (HD-SDI): 1280x720@50Hz (720p50), 1280x720@60Hz (720p60);

SMPTE 259M-C (SD-SDI): 720x480@59.94 (NTSC), 720x576@50i (PAL)

Audio

Input Signal Types: SDI

Output Signal Types: SDI (loop-through), HDMI (2-channel pass-through from input), analog stereo (2-channel pass-through from input)

Digital Formats: 2 channel PCM^[1]

Analog Formats: Stereo 2-channel

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

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

Stereo Separation: >90 dB

Analog Volume Adjustment: -80 to 0 dB

DMC-SDI 3G-SDI Input Card for DM[®] Switchers

Communications

HDMI: CEC

NOTE: Supports management of CEC between the connected HDMI device and a control system

Connectors

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

SDI IN: (1) BNC female;
SDI video input;
Input Impedance: 75 Ohms nominal with loop-through disabled

SDI OUT: (1) BNC female;
SDI video/audio loop-through output

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

MODELS & ACCESSORIES

Available Models

DMC-SDI: 3G-SDI Input Card for DM[®] Switchers

Available Accessories

CBL Series: Crestron[®] Certified Interface Cables

DMCI: DigitalMedia™ Card Interface

Notes:

1. Allows selecting any one of the four audio groups on the SDI input stream. Receives only the first 2 channels of the selected group.
2. Item(s) sold separately.
3. HDMI requires an appropriate adapter or interface cable to accommodate a DVI signal. [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.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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