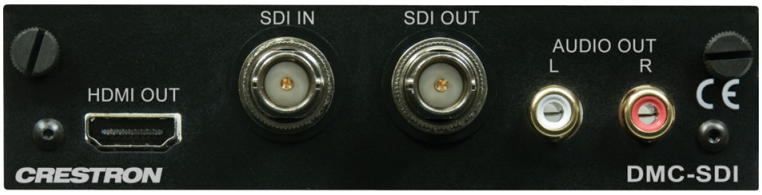
DMC-SDI

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.

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