

HDMI™ Input Card for DM Switchers

The DMC-HD is an input card for a Crestron DigitalMedia™ Switcher, providing one HDMI input. The DMC-HD supports HDMI 1.3a w/Deep Color and HDCP, handling 1080p60 HDTV and WUXGA computer resolutions, and multi-channel HD lossless audio - all through a single HDMI cable. The HDMI input can also handle DVI and DisplayPort Multimode signals using an appropriate adapter or dongle*.

Additional connections on the card include an HDMI pass-thru output, a stereo analog audio pass-thru output, and a USB HID port. 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 HDMI input and passes it through to feed a CNX-PAD8A, AAE, 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-HD-DSP.

The USB HID host port allows a remote mouse/keyboard or game controller, connected at the display location, to control a centralized source device (i.e. computer, game console, media server, etc.) at the equipment rack.

The DMC-HD may also be used with the DMCI DigitalMedia Card Interface to create a very handy problem-solving tool with many useful functions. For instance, it can be used to extract an analog audio signal from an HDMI or DisplayPort Multimode stream, to detect and manage EDID format information, to enable CEC device control, and to extend a USB HID mouse/keyboard signal over Ethernet.

SPECIFICATIONS

Video

Input Signal Types: HDMI, DVI*, DisplayPort Multimode*

Output Signal Types: HDMI and DVI* to switcher backplane and HDMI OUT connector

Formats: HDMI v.1.3a w/Deep Color, DVI v.1.0, HDCP v.1.2 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 v.1.3a

Input Resolutions, Interlaced: 720x480@30Hz (480i), 720x576@25Hz (576i), 1920x1080@25Hz (1080i25), 1920x1080@30Hz (1080i30), plus any other resolution allowed by HDMI v.1.3a

Output Resolutions: Matched to inputs

Audio

Input Signal Types: HDMI v.1.3a supporting HD lossless multi-channel up to 7.1, DisplayPort Multimode*

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

Formats: Dolby® TrueHD 7.1, Dolby Digital Plus 7.1, Dolby Digital AC3 5.1, Dolby Digital EX 5.1, DTS-HD Master Audio™ 7.1, DTS-HD High Res 7.1, DTS 5.1, DTS-ES Matrix 5.1, DTS-ES Discrete 6.1, DTS 96/24 5.1, 8ch PCM, 6ch PCM, 2ch PCM

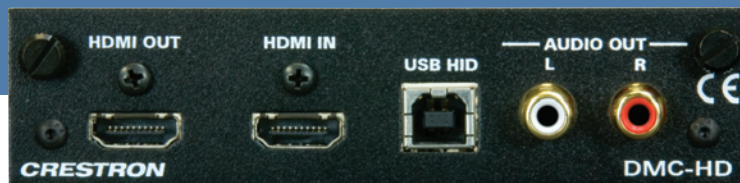
Digital-To-Analog Conversion: 24-bit 48 kHz

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



USB

Protocols: Supports USB HID class devices

Connectors

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

HDMI IN: (1) 19-pin Type A HDMI female; HDMI digital video/audio input; Also supports DVI and DisplayPort Multimode*

USB HID: (1) USB Type B female; USB 1.1 host port for connection to the mouse/keyboard or game controller input of a USB HID-compliant host device

AUDIO OUT: (2) RCA female; Unbalanced stereo line-level audio output with level control; Maximum Output Level: 2 V_{rms}; Output Impedance: 100 ohms nominal

Construction

Plug-in card, occupies (1) DM Switcher input card slot, includes steel faceplate w/black matte powder coat finish

Weight

8.0 oz (227 g)

AVAILABLE ACCESSORIES

CBL-HD

HDMI™ Interface Cable

CBL-DP-HD

DisplayPort to HDMI™ Interface Cable

CBL-HD-DVI

HDMI™ to DVI Interface Cable

CBL-RCA2

RCA Stereo Audio Interface Cable

MP-WP152

Media Presentation Wall Plates – HDMI™

MP-WP162

Media Presentation Wall Plates – DisplayPort

MP-WP140

Media Presentation Wall Plates – DVI w/Mini-TRS Stereo Audio

DMCI

DigitalMedia Card Interface

* HDMI requires an appropriate adapter or interface cable to accommodate a DVI or DisplayPort Multimode signal. CBL-HD-DVI and CBL-DP-HD interface cables available separately.