

HDMI Input Card w/DSP for DM Switchers



The DMC-HD-DSP is an input card for a Crestron DigitalMedia™ Switcher, providing one HDMI input. The DMC-HD-DSP supports HDMI 1.3 w/Deep Color and HDCP, handling 1080p/60 HDTV and WUXGA computer resolutions, and multi-channel HD lossless audio - all through a single HDMI cable.

The DMC-HD-DSP provides all of the features of the DMC-HD with the addition of internal DSP processing to enable the simultaneous distribution of uncompressed 7.1 channel HD surround sound and 2-channel audio. The DMC-HD-DSP is recommended for use with Blu-ray Disc™ players and other HD sources that output multi-channel surround sound audio via HDMI, allowing the multi-channel signal to reach the surround sound system without requiring any decoding, while also providing a 2-channel down-mix to feed a stereo zone or audio distribution system.

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 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.*

The USB HID 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.

SPECIFICATIONS

Video

Signal Types: HDMI 1.3 w/Deep Color w/HDCP 1.1 copy protection protocol

Audio

Signal Types: HDMI 1.3 supporting HD lossless multi-channel up to 7.1, analog converted stereo pass-thru, 2-channel down-mix enabling simultaneous uncompressed multi-channel and stereo output signals

Processor: Cirrus Logic® CS49700 HD Audio Decoder DSP with dual 32-bit cores

Surround Sound Formats: Bypass, Stereo, PCM 96/24, MLP Lossless™, Dolby® Pro Logic IIx, Dolby Digital 5.1, Dolby Digital EX, Dolby TrueHD, DTS Neo:6, DTS Virtual, DTS Digital 5.1 Discrete, DTS ES 6.1 Discrete, DTS ES 6.1 Matrix, DTS 96/24, DTS-HD Master Audio™

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

Connectors

HDMI OUT: (1) 19-pin Type A HDMI female;
HDMI digital video/audio output;
Provides pass-thru signal from HDMI IN for system expansion

HDMI IN: (1) 19-pin Type A HDMI female;
HDMI digital video/audio input

USB HID: (1) USB Type B female;
USB 1.1 port for connection to source device's mouse, keyboard, or game controller input

AUDIO OUT L – R: (2) RCA female;
Unbalanced stereo line-level audio output;
Provides analog audio pass-thru signal converted from HDMI INPUT to feed multi-room audio distribution system;
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)

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