DMCI

DigitalMedia™ Card Interface

The DMCI is a compact, rack-mountable enclosure designed to allow the use of a single DMC-Series DM Switcher Input Card to support a variety of interface functions. The DMCI is a perfect companion to Crestron HD-MD8X1 and HD-MD8X2 QuickSwitch HD™ HDMI switchers, allowing virtually any AV source to be connected and routed through the switcher as a fully-digital HDMI signal. A Cresnet connection is provided on the DMCI for integration with a Crestron control system.

Analog to HDMI Converter
All DMC input cards are equipped with HDMI outputs, making them ideal for converting other AV signals to HDMI. Just slide a DMC-VID-BNC or DMC-VID-RCA-A card into the DMCI and you're ready to convert analog video and audio signals to HDMI. Similarly, a DMC-VID-RCA-D card provides conversion for analog video signals accompanied by SPDIF digital audio, while RGB computer signals can be converted using the DMC-DVI card. The DMCI even detects the resolution and format of each input signal, and embeds it as EDID (Extended Display Identification Data) within the HDMI output signal.

DVI to HDMI Converter
While any HDMI input can ordinarily accommodate DVI sources with just a simple passive adapter, that arrangement does not include any support for audio signals. Loaded with a DMC-DVI card, the DMCI provides a simple means for merging DVI digital video and analog stereo audio into a single HDMI output.

HDMI Audio Extractor
HDMI provides a terrific one-wire solution for connecting an AV source or computer to a display or AV receiver, as long as you want the video and audio signals to stay together. But what if you need to break out the audio signal to feed a separate sound system input? A DMC-HD HDMI card provides a perfect solution, allowing audio to be extracted from the digital stream via its analog stereo output, while simultaneously allowing the full HDMI signal to pass through unaffected. Or to go even further, the DSP-enhanced DMC-HD-DSP card accepts HDMI signals containing multi-channel surround sound audio, providing a 2-channel down-mix signal at its analog stereo output, and allowing the choice of 2-channel or multi-channel audio at the HDMI output. Using either card, the analog output volume can be controlled through a control system using a touchpanel or keypad.

EDID Extractor
Do you need to know all the details about an AV signal, like its video resolution, frame-rate, color depth, and audio format? Through its Cresnet connection to a control system, the DMCI can report EDID information about any connected signal for viewing on a touchpanel, or for auto-configuring a display device.

CEC Embedded Device Control
The DMCI can provide an alternative to conventional IR and RS-232 device control by harnessing the CEC (Consumer Electronics Control) signal embedded in HDMI. Through its connection to the control system, the DMCI provides a gateway for controlling many devices right through their HDMI connections, potentially eliminating the need for any dedicated control wires or IR probes. Proper management of the CEC signal allows you to take control of each device as you like.

USB HID Mouse/Keyboard Extender
Select DMC cards feature a built-in USB HID (Human Interface Device) host port, allowing a local computer or other component to be controlled by a keyboard, mouse, or other USB HID device at a remote location. The USB mouse/keyboard signal is transmitted over Ethernet to the DMCI using a DM-RMC-100 Room Controller (sold separately), or any Crestron product with a USB HID device port and Ethernet access.

Rack Mount DM Receiver
Loaded with a DM CAT input card (DMC-CAT) or DM Fiber input card (DMC-F), the DMCI affords a DigitalMedia receiver solution that's perfect for installation in an equipment rack or AV cart, or as a portable display interface. In addition to providing a single HDMI digital AV output, both cards feature an analog stereo audio output with programmable volume control.

- *> Allows use of a single DMC Input Card for a variety of interface functions*
- *> Enables analog AV to HDMI™ conversion*
- *> Enables merging DVI with analog audio to HDMI*
- *> Allows extracting analog audio from HDMI*
- *> Allows down-mixing multi-channel HDMI audio to stereo*
- *> Allows extracting EDID from digital sources*
- *> Allows generating EDID for analog sources*
- *> Affords a Cresnet-to-CEC control gateway*
- *> Enables USB HID mouse/keyboard extension over Ethernet*
- *> Affords a rack-mountable DM receiver*
- *> Includes Cresnet control system interface*
- *> 1/2-space rack-mountable*

DMCI DigitalMedia™ Card Interface

SPECIFICATIONS

Card Slot

(1) DM switcher input card slot;
Accepts (1) DMC-series input card

Connectors

NET: (1) 4-pin 3.5mm detachable terminal block;
Cresnet slave port, connects to Cresnet control network
LAN: (1) 8-wire RJ45 female w/2 LED indicators;
10BaseT/100BaseTX Ethernet port;
Green LED indicates link status;
Yellow LED indicates Ethernet activity;
Used exclusively for computer console and USB HID extension

Controls & LED Indicators

PWR: (1) green LED, indicates 24 Volts DC power supplied from Cresnet control network
NET: (1) yellow LED indicates communication with Cresnet system
RESET: (1) recessed miniature pushbutton, hardware reset
USB CONSOLE: (1) miniature pushbutton and (1) green LED, enables USB console* and touch-settable ID (TSID)

Power Requirements

Cresnet Power Usage: 12 Watts (0.5 Amp @ 24 Volts DC) with card†

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 7 BTU/Hr without card;
21 BTU/Hr maximum with card‡

Enclosure

Black metal, 0.5U 19-inch rack-mountable using optional ST-RMK (sold separately)

Dimensions

Height: 1.80 in (4.57 cm);
1.70 in (4.32 cm) without feet
Width: 7.07 in (17.95 cm)
Depth: 9.97 in (25.33 cm)

Weight

2.7 lb (1.2 kg)

* *USB console requires installation of a card with a USB port (e.g., DMC-HD).*

† *Connecting DMNet devices (e.g., a DM transmitter or repeater) to any card containing a DMNet port (e.g., DMC-CAT) will increase the total Cresnet Power Usage for the DMCI by the combined DMNet Power Usage of those DMNet devices. The maximum power available for DMNet devices is 63 Watts assuming a 75 Watt Cresnet power source.*

‡ *As tested with DMC-HD-DSP card installed.*

Available Models

DMCI: DigitalMedia™ Card Interface

Available Accessories

DMC-HD: HDMI® Input Card for DM® Switchers
DMC-HD-DSP: HDMI® Input Card w/Downmixing for DM® Switchers
DMC-DVI: DVI/RGB Input Card for DM Switchers
DMC-VGA: VGA/Video Input Card for DM® Switchers
DMC-VID-BNC: BNC Analog Video Input Card for DM Switchers
DMC-VID-RCA-A: RCA Analog Video Input Card w/Analog Audio for DM Switchers
DMC-C-DSP: DigitalMedia 8G+™ Input Card w/Downmixing for DM® Switchers
DMC-S: DigitalMedia 8G™ Fiber Input Card for DM® Switchers
DMC-S-DSP: DigitalMedia 8G™ Fiber Input Card w/Downmixing for DM® Switchers
DMC-S2: DigitalMedia 8G™ Single-Mode Fiber Input Card for DM® Switchers
DMC-S2-DSP: DigitalMedia 8G™ Single-Mode Fiber Input Card w/ Downmixing for DM® Switchers
DMC-CAT: DigitalMedia™ CAT Input Card for DM® Switchers
DMC-CAT-DSP: DigitalMedia™ CAT Input Card w/Downmixing for DM® Switchers
DMC-F: DigitalMedia™ Fiber Input Card for DM® Switchers
DMC-F-DSP: DigitalMedia™ Fiber Input Card w/Downmixing for DM® Switchers
ST-RMK: Rack Mount Kit

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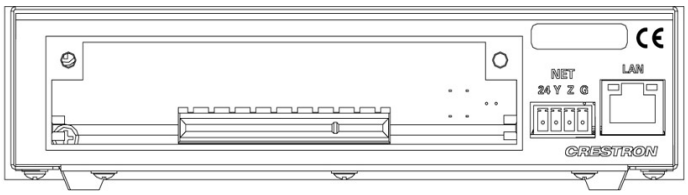

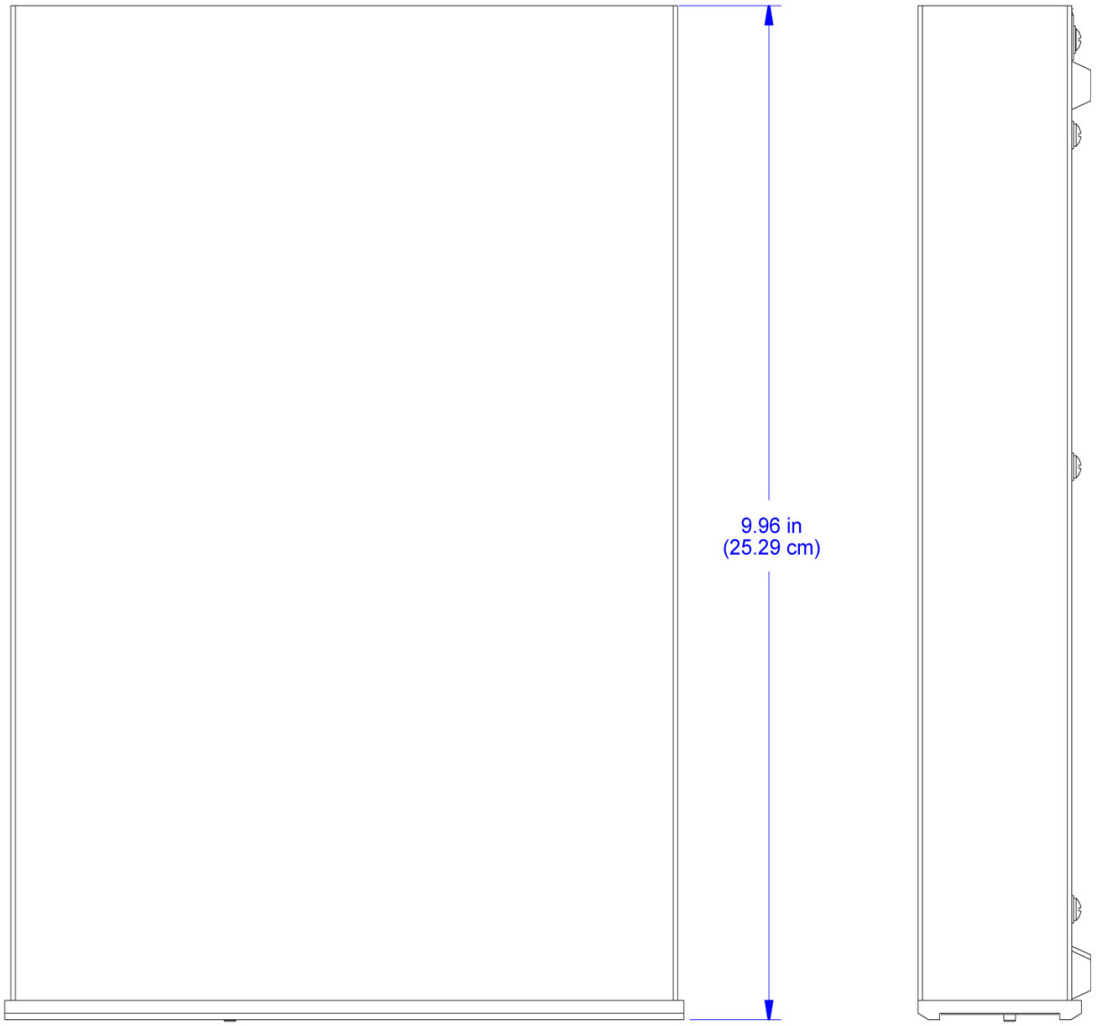

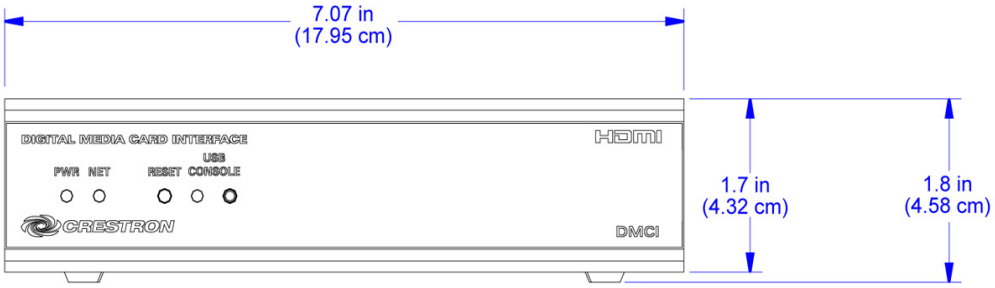

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