

8-Channel 4K HDMI® Input Blade for DM® Switchers

- > Modular input blade for a DM-MD64X64 or DM-MD128X128 switcher
- > Provides eight independent 4K HDMI® inputs
- > Handles video resolutions up to 4K and Ultra HD
- > Handles 3D video and Deep Color
- > Handles Dolby® TrueHD, DTS-HD®, and uncompressed 7.1 linear PCM audio
- > Handles stereo analog audio signals via the optional AUD-BOB-1602 breakout box^[1]
- > HDCP compliant
- > Occupies a single input blade slot

The DMB-4K-I-HD is an input blade designed for use with any blade-based Crestron® DigitalMedia™ Switcher. It provides eight independent HDMI® inputs with associated analog audio inputs^[1]. Each HDMI input handles Full HD 1080p, Ultra HD, 2K, and 4K video signals with support for HDCP, Deep Color, 3D, and high-bitrate 7.1 audio. The analog audio inputs are enabled using the optional Analog Audio Breakout Box (model [AUD-BOB-1602](#)^[1]), providing support for balanced or unbalanced stereo line-level signals.

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: HDMI®, DVI^[2], DisplayPort Multimode^[2]
Formats: HDMI w/Deep Color, 3D, & 4K; HDCP content protection support
Maximum Resolutions:

Scan Type	Maximum Resolution	Frame Rate	Color Sampling
Progressive	4096x2160 4K DCI	Up to 24 Hz	4:4:4
Progressive	3840x2160 Ultra HD	Up to 30 Hz	4:4:4
Progressive	2560x1600 WQXGA	Up to 60 Hz	4:4:4
Progressive	4096x2160 4K DCI	Up to 60 Hz	4:2:0 ^[3]
Progressive	3840x2160 Ultra HD	Up to 60 Hz	4:2:0 ^[3]
Interlaced	1920x1080 1080i30	Up to 30 Hz	4:4:4

NOTE: Common resolutions are shown; other custom resolutions are supported at pixel clock rates up to 300 MHz

Audio

Input Signal Types: HDMI, DisplayPort Multimode^[2], analog stereo^[1]
Formats, HDMI: Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio™, Up to 8ch PCM
Formats, Analog: Stereo 2-channel^[1]
Analog-To-Digital 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: >80dB

Input Compensation (analog): ±10 dB

Communications

HDMI: HDCP, EDID, CEC

Connectors

INPUT HD 1 – 8: (8) 19-pin Type A HDMI female;
 HDMI digital video/audio inputs;
 Also support DVI and DisplayPort Multimode^[2]

DMB-4K-I-HD 8-Channel 4K HDMI® Input Blade for DM® Switchers

ANALOG AUDIO INSERT: (1) 68-pin VHDCI female;
Connects to external analog audio breakout box, model AUD-BOB-1602⁽¹⁾;
Input Impedance: 10k Ohms balanced/unbalanced;
Maximum Input Level: 4 Vrms balanced, 2 Vrms unbalanced

Indicators

ACT: (1) green LED, indicates blade activity
MSG: (1) red LED, indicates an error message has been generated
INPUT HD 1 – 8: (8) dual-color red/green LEDs, indicate video lock and HDCP status for each corresponding input

Construction

Plug-in blade, occupies (1) DM switcher input blade slot, includes metal faceplate w/black finish

Weight

1.6 lb (726 g)

MODELS & ACCESSORIES

Available Models

DMB-4K-I-HD: 8-Channel 4K HDMI® Input Blade for DM® Switchers

Available Accessories

AUD-BOB-1602: 16-Channel Analog Audio Breakout Box
CBL Series: Crestron® Certified Interface Cables
MP-WP Series: Media Presentation Wall Plates
MPI-WP Series: Media Presentation Wall Plates – International Version

Notes:

1. Analog audio input capability requires the optional Analog Audio Breakout Box, model AUD-BOB-1602, sold separately.
2. HDMI requires an appropriate adapter or interface cable to accommodate a DVI or DisplayPort Multimode signal. CBL-HD-DVI interface cables are available separately.
3. Support for 4K and UHD at 50/60 Hz with 4:2:0 color sampling will be enabled through a future firmware update.

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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