HD-MD-4K-300-2G

DigitalMedia™

4K 3x1 Scaling Auto-Switcher and DM Lite® Wall Plate Extender over CATx Cable

- *4K60 4:2:0 capability*
- *2-gang wall plate transmitter and surface-mountable receiver with 3x1 AV switching, scaling, and signal extension functionality*
- *One HDMI® input and one VGA input on transmitter and an additional HDMI input on receiver*
- *One 4K scaling HDMI output on receiver*
- *Automatic switching of inputs*
- *Signal extension of video, audio, and power over a CATx cable—up to 230 ft (70 m) for resolutions up to 2K or up to 130 ft (40 m) for higher resolutions up to 4K*
- *EDID management*
- *HDCP management*
- *Stereo audio de-embedding via the analog audio output*
- *IR, RS-232, relay, and I/O control ports*
- *CEC (Consumer Electronics Control) capability*
- *Gigabit Ethernet connectivity*
- *Convenience Ethernet port*
- *Built-in web interface for easy configuration and monitoring*
- *Compatibility with Crestron® 3-Series® or later control systems*
- *.AV Framework™ technology support*
- *Crestron XiO Cloud™ service support*
- *Low-profile installation*
- *Wall plate transmitter available in black or white (decorator style faceplate sold separately)*
- *100-240 VAC power pack included*

The Crestron® HD-MD-4K-300-2G provides a cost-effective multimedia presentation solution for classrooms and meeting spaces. Consisting of a wall plate transmitter (HD-TX-201-C-2G-E Series) and surface-mountable receiver (HD-RX-4K-210-C-E), the HD-MD-4K-300-2G extends an HDMI® or VGA signal over a CATx (CAT5e or higher) twisted pair cable. For resolutions up to 2K, the maximum transmission distance is 230 ft (70 m). For higher resolutions up to 4K, the maximum transmission distance is 130 ft (40 m).[1]

NOTE: Power is transmitted over the CATx cable that connects the transmitter to the receiver.

The transmitter provides one HDMI input and one VGA input with a complementary stereo analog audio input. The receiver provides an additional HDMI input that can be connected to a local AV source or to an optional Crestron media presentation wall plate (MP-WP152 Series, sold separately).

The HD-MD-4K-300-2G is available in two models: HD-MD-4K-300-2G-B and HD-MD-4K-300-2G-W. The HD-MD-4K-300-2G-B includes a black HD-TX-201-C-2G-E Series wall plate transmitter. The HD-MD-4K-300-2G-W includes a white HD-TX-201-C-2G-E Series wall plate transmitter.

Automatic Switching of Inputs

Automatic switching among the HDMI and VGA inputs on the transmitter and the HDMI input on the receiver can occur based on the last connected input or on the routing priority assigned to each input. Switching behavior is configurable using the web interface or programmable using a Crestron control system. In addition to automatic switching, input selection push buttons on the transmitter and receiver enable the desired input to be selected manually.

NOTE: The analog audio input on the transmitter is switched in tandem with the VGA input and cannot be paired with an HDMI input. The analog audio input can also be used with an audio-only source with no video source connected.

HDMI Output with 4K Scaler

A single HDMI output with a built-in scaler connects the receiver to a display or other device with an HDMI input. Input resolutions are automatically scaled to match the native resolution of the display device, resulting in optimal image quality. For applications requiring comprehensive EDID management, the web interface can be used to ensure that every input is displayed at its optimal resolution and format. Input resolutions up to 4K60 4:2:0 are supported.

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Audio De-embedding

The analog audio output on the receiver enables the HD-MD-4K-300-2G to extract the stereo audio signal from digital sources to feed a sound bar, amplified speakers, or a separate sound system. The analog audio output is active only when the input is receiving a 2-channel stereo signal from the analog input or an HDMI input.

Device Control

Equipped with onboard control ports, the receiver can control various devices in a room. The COM (RS-232) port and CEC over the HDMI output can enable the display device to be turned on or off automatically without the use of a control system. With the use of a control system, the IR port can also control the display device. Two relay ports are provided for controlling a projection screen and other low-voltage contact closure activated equipment. Two Versiport I/O ports enable the integration of devices such as power sensors and motion detectors. An Ethernet port connection to a LAN also provides control by enabling use of the built-in web interface as well as connection to a control system.

NOTE: The COM, IR, and Ethernet ports cannot be used to extend signals over the CATx cable connection between the receiver and the transmitter.

Convenience Ethernet Port

A convenience Ethernet port on the transmitter provides a 1000BASE-T network connection for a computer or other device, eliminating the need for a separate RJ-45 wall jack. The Ethernet port on the front of the transmitter provides a pass-through to the parallel Ethernet port on the rear of the transmitter. The Ethernet port on the rear connects to the LAN.

NOTE: The Ethernet port on the transmitter is independent of the Ethernet port on the receiver and cannot be used to extend Ethernet signals or interface with a control system.

.AV Framework™ Technology Support

In addition to a built-in web interface and control system programming, the built-in .AV Framework technology of the MPC3-201 and MPC3-302 control systems can be used to control the HD-RX-4K-210-C-E as a switcher. (For information about .AV Framework technology, visit www.crestron.com/avframework.)

Crestron XiO Cloud™ Service Support

The HD-MD-4K-300-2G is compatible with the Crestron XiO Cloud service, which is a platform for remotely provisioning, monitoring, and managing Crestron devices across an enterprise or an entire client base. The service enables installers and IT managers to deploy and manage thousands of devices in the amount of time it previously took to manage a single device. For more information, visit www.crestron.com/xiocloud.

Specifications

Video

Switcher	3x1 (2 inputs at transmitter plus 1 input at receiver x 1 output at receiver) auto-switching or manual, audio-follows-video, Crestron Auto-Locking® and QuickSwitch HD™ technologies
Scaler, HDMI Output	4K video scaler with intelligent frame rate conversion, Deep Color support, content-adaptive noise reduction, 3:2/2:2 pull-down detection and recovery
Input Signal Types	HDMI with Deep Color and 4K (DVI and Dual-Mode DisplayPort™ interface compatible[2]), VGA/RGB (RGBHV, RGBS, RGsB), component (YPbPr)[3]
Output Signal Types	HDMI with Deep Color and 4K (DVI compatible[4])
Copy Protection	Transmitter: HDCP 1.4 Receiver: HDCP 2.2
Maximum Resolutions	Common resolutions are listed in the following table.

Input Type	Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
HDMI	Progressive	4096x2160 DCI 4K and 3840x2160 4K UHD	24 Hz	4:4:4	30 bit
			30 Hz	4:4:4	24 bit
			30 Hz	4:2:2	36 bit
			60 Hz	4:2:0	24 bit
		2560x1600 WQXGA	60 Hz	4:4:4	36 bit
		1920x1080 HD 1080p	60 Hz	4:4:4	36 bit
VGA/RGB	Progressive	1600x1200 UXGA	60 Hz	—	—
		1920x1200 WUXGA	60Hz	—	—
Component	Progressive	1920x1080 HD 1080p	60Hz	—	—

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NOTES:

- Custom resolutions are supported at pixel clock rates up to 300 MHz for HDMI input and up to 165 MHz for VGA input.
- Interlaced video sources are not supported.

Scaler Resolutions, HDMI Output

Auto (EDID preferred)	3840x2160p@24Hz
1280x720p@50Hz (720p50)	3840x2160p@25Hz
1280x720p@60Hz (720p60)	3840x2160p@30Hz
1920x1080i@25Hz (1080i25)	4096x2160p@24Hz
1920x1080i@30Hz (1080i30)	4096x2160p@25Hz
1920x1080p@30Hz (1080p30)	4096x2160p@30Hz
1920x1080p@25Hz (1080p25)	3840x2160p@50Hz
1920x1080p@24Hz (1080p24)	3840x2160p@60Hz
1920x1080p@50Hz (1080p50)	4096x2160p@50Hz
1920x1080p@60Hz (1080p60)	4096x2160p@60Hz

Audio

Input Signal Types	HDMI (Dual-Mode DisplayPort interface compatible[2]), analog stereo
Output Signal Types	HDMI, analog stereo
Digital Formats	2-channel LPCM
Analog Formats	Stereo 2-channel
Analog-to-Digital Conversion	24-bit 48 kHz
Digital-to-Analog Conversion	24-bit 48 kHz
Output Impedance	200 ohms balanced, 100 ohms unbalanced
Maximum Output Level	4 Vrms balanced, 2 Vrms unbalanced
Output Volume	-80 to +20 dB level adjustment range plus Mute
Mute	Enable or disable independently for HDMI and analog audio output
Analog Input Performance	Frequency Response: 20 Hz to 20 kHz ±0.75 dB S/N Ratio: >90 dB, 20 Hz to 20 kHz, A-weighted THD+N: <0.006% @ 1 kHz Stereo Separation: >80 dB
Analog Output Performance	Frequency Response: 20 Hz to 20 kHz ±0.5 dB S/N Ratio: >95 dB @ 10 dBV, 20 Hz to 20 kHz, A-weighted THD+N: <0.005% @ 1 kHz and 10 dBV Stereo Separation: 20 Hz to 20 kHz ≤80 dB
Acoustic Noise	Not applicable (fanless)

Communications

Ethernet	100/1000 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, CIP, DHCP, web browser setup and control
RS-232	2-way device control and monitoring up to 115.2k baud with hardware and software handshaking
IR	1-way device control via infrared up to 60 kHz
HDMI	Transmitter: HDCP 1.4, EDID Receiver: HDCP 2.2, EDID, CEC
DM Lite	HDCP 2.2, EDID

Connectors - Transmitter (HD-TX-201-C-2G-E)

HDMI IN	(1) HDMI Type A connector, female; HDMI digital video/audio input (DVI and Dual-Mode DisplayPort interface compatible[2])
VGA IN	(1) HD15 connector, female; RGB (VGA) or component video input[3]; Formats: RGBHV, RGBS, RGsB, YPbPr
AUDIO IN	(1) 3.5 mm TRS mini phone jack; Unbalanced stereo line-level audio input; Maximum Input Level: 2 Vrms; Input Impedance: 44k Ohms
Ethernet (Front)	(1) 8-pin RJ-45 connector, female; Passive pass-through to the rear panel Ethernet port (refer to the "Ethernet [Rear]" specifications on the following page for additional information)

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Ethernet (Rear)	(1) 8-pin RJ-45 connector, female; Passive pass-through to the front panel Ethernet port; Compatible Cable Standards: CAT5e, CAT6, CAT6a; Low Level Contact Resistance: 100 mΩ maximum; Insulation Resistance: 500 mΩ minimum at 500 VDC; Dielectric Withstanding Voltage: 1000 VAC between contacts and shell; Voltage Rating: 125 VAC; Current Rating: 1.5 A; PoE Compatibility: IEEE 802.3at PoE and PoE+; Insertion Force: 22 N maximum; Retention Force: 76 N minimum
SERVICE (Right Side)	(1) USB Type-A connector, female; For factory use only
TO RX (DM Lite, Rear)	(1) 8-pin RJ-45 connector, female, shielded; DM Lite® link port for connection to the HD-RX-4K-210-C-E receiver[1]
24 VDC 1.25A (Rear)	(2) Captive screw terminals; Not used

NOTE: The power pack included with and connected to the HD-RX-4K-210-C-E receiver powers both the transmitter and receiver. A power pack must not be connected to both devices simultaneously.

Connectors - Receiver (HD-RX-4K-210-C-E)

HDMI INPUT 1	(1) HDMI Type A connector, female; HDMI digital video/audio input (DVI and Dual-Mode DisplayPort interface compatible[2])
DM Lite INPUT 2	(1) 8-pin RJ-45 yellow connector, female, shielded; DM Lite link port for connection to the HD-TX-201-C-2G-E transmitter[1]
HDMI OUTPUT	(1) HDMI Type A connector, female; HDMI digital video/audio output (DVI compatible[4])

NOTE: CEC over the HDMI output provides Power On/Off control of the display device without a control system or full programmable control of any device with a control system.

AUDIO L/R	(1) 5-pin 3.5 mm detachable terminal block; Balanced/unbalanced stereo line-level audio output; Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced; Output Impedance: 200 ohms balanced, 100 ohms unbalanced
Ethernet	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port
I/O 1-2	(2) 2-pin detachable terminal blocks; Comprised of 2 Versiport digital input/output or analog input ports (referenced to GND); Digital Input: Rated to 0-24 VDC, input impedance 20k ohms, logic threshold >3.125 V low/0 and <1.875 V high/1; Digital Output: 250 mA sink from maximum 24 VDC, catch diodes for use with real world loads; Analog Input: Rated for 0-10 VDC, protected to 24 VDC maximum, input impedance 21k ohms with pull-up resistor disabled; Programmable 5 V, 2k ohms pull-up resistor per pin
RELAY 1-2	(2) 2-pin detachable terminal blocks; Comprised of 2 normally open, isolated relays; Rated 1 A, 30 VAC/VDC; MOV arc suppression across contacts
IR	(1) 2-pin 3.5 mm detachable terminal block; IR output control port; Supports IR up to 60 kHz; IRP2 emitter sold separately

NOTE: The IR port provides Power On/Off control of the display device with the use of a control system.

COM	(1) 5-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port; Supports RS-232 up to 115.2k baud with hardware and software handshaking

NOTE: The COM port provides Power On/Off control of the display device without a control system or full programmable control of any device with a control system.

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24V 1.25A	(1) 2.1 x 5.5 mm DC power connector; 24 VDC power input; PW-2412WU power pack included
	NOTE: The power pack powers both the HD-RX-4K-210-C-E receiver and the HD-TX-201-C-2G-E transmitter. A power pack must not be connected to both devices simultaneously.
SERVICE	(1) USB Type A connector, female; For factory use only

Controls and Indicators - Transmitter (HD-TX-201-C-2G-E)

PWR	(1) LED, indicates that power is being applied to the HD-TX-201-C-2G-E from the power pack connected to the HD-RX-4K-210-C-E receiver. Amber indicates that the HD-TX-201-C-2G-E is booting. Green indicates that the HD-TX-201-C-2G-E is operational.
HDMI IN	(1) Bi-color green/amber LED, indicates HDMI input selection and signal presence
VGA IN	(1) Bi-color green/amber LED, indicates VGA input selection and signal presence
INPUT SEL	(1) Push button for manual input selection, cycles through all available inputs on both the transmitter and receiver
AUTO	(1) Push button to enable or disable automatic switching and (1) green LED to indicate that automatic switching is enabled
SETUP	(1) Red LED and (1) recessed push button for Ethernet setup
LINK	(1) Green LED, indicates DM Lite link status
TO RX (DM Lite, Rear)	(2) LEDs on RJ-45 connector. Green LED indicates DM Lite link status. Amber LED indicates a valid video signal.

Controls and Indicators - Receiver (HD-RX-4K-210-C-E)

PWR	(1) LED, indicates that power is being applied to the HD-RX-4K-210-C-E from the power pack connected to the receiver. Amber indicates that the HD-RX-4K-210-C-E is booting. Green indicates that the HD-RX-4K-210-C-E is operational.
INPUT 1-2	(2) Push buttons for manual input selection and (2) LEDs. Green indicates that video is switched. Amber indicates that video is detected but is not switched.
AUTO	(1) Push button to enable or disable automatic switching and (1) green LED to indicate that automatic switching is enabled
SETUP	(1) Red LED and (1) push button for display of IP address on the HDMI output
DM Lite	(2) LEDs on RJ-45 connector. Green indicates that a DM Lite link is established. Flashing amber indicates non-HDCP video, and solid amber indicates HDCP video.
Ethernet	(2) LEDs on RJ-45 connector. Green indicates that an Ethernet link is established. Flashing amber indicates Ethernet activity.

Power

Power Pack (Included with Receiver)	Input: 100-240 VAC, 50/60 Hz Output: 1.25 A @ 24 VDC Model: PW-2412WU
	NOTE: The power pack connects to the HD-RX-4K-210-C-E receiver and powers both the receiver and the transmitter. A power pack must not be connected to both devices simultaneously.
Power Consumption	18.5 W typical

Environmental

Temperature	32° to 104° F (0° to 40° C)
Humidity	Transmitter: 20% to 90% RH (non-condensing); Receiver: 10% to 90% RH (non-condensing)
Heat Dissipation	63.1 BTU/hr

Construction - Transmitter (HD-TX-201-C-2G-E)

Composition	Metal housing and bracket with black or white polycarbonate front label overlay
Mounting	Mounts in 2-gang, 2-1/4 inch (57 mm) deep U.S. electrical box or plaster ring (not included)
Faceplate	Requires a Crestron FP-G2-DM-B-T or Crestron FP-G2-DM-W-T faceplate (sold separately). Other faceplates are incompatible.

Enclosure - Receiver (HD-RX-4K-210-C-E)

Chassis	Metal, black finish, vented sides, 2 mounting flanges attached
Mounting	Surface or rack rail mount

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Dimensions - Transmitter (HD-TX-201-C-2G-E)

Height	4.19 in. (107 mm)
Width	3.50 in. (89 mm)
Depth	2.07 in. (53 mm)

Dimensions - Receiver (HD-RX-4K-210-C-E)

Height	5.11 in. (130 mm)
Width	10.53 in. (268 mm) with mounting flanges attached
Depth	1.10 in. (28 mm)

Weight

Transmitter	8.9 oz (252 g)
Receiver	2.3 lb (1.05 kg)

Compliance

UL® Listed for US and Canada, CE, IC, FCC Part 15 Class B digital device

Models

HD-MD-4K-300-2G-B
4K 3x1 Scaling Auto-Switcher and DM Lite Wall Plate Extender, Black, over CATx Cable

HD-MD-4K-300-2G-W
4K 3x1 Scaling Auto-Switcher and DM Lite Wall Plate Extender, White, over CATx Cable

Included Accessories

PW-2412WU
(1) Wall Mount Power Pack, 24 VDC, 1.25 A, 2.1 mm, Universal

Available Accessories

FP-G2-DM-B-T
2-Gang Decorator Style Faceplate, Black Textured

FP-G2-DM-W-T
2-Gang Decorator Style Faceplate, White Textured

AMP-X300
X Series Amplifier

AMP-150-70
Single-Channel Modular Power Amplifier, 50 W, 70 V

AMP-150-100
Single-Channel Modular Power Amplifier, 50 W, 100 V

AMP-2100
Dual-Channel Modular Power Amplifier, 100W/Ch., 4/8Ω

AMP-2100-70
Dual-Channel Modular Power Amplifier, 100W/Ch., 70 V

AMP-2100-100
Dual-Channel Modular Power Amplifier, 100W/Ch., 100 V

AMP-225
Dual-Channel Modular Power Amplifier, 25 W/Ch., 4/8 Ω

AMP-X50MP
X Series Media Presentation Amplifier

SAROS SB-200-P-B
Saros® Sound Bar 200, Powered, Black

IRP2
IR Emitter Probe with Terminal Block Connector

AM-200
AirMedia® Presentation System 200

MPC3-201-B
3-Series® Media Presentation Controller 201, Black

MPC3-302-B, -W
3-Series Media Presentation Controller 302, Black or White

CBL-HD-1.5, -3, -6, -12, -20
Crestron Certified HDMI Interface Cable, 18 Gbps, 1.5 ft (0.45 m), 3 ft (0.91 m), 6 ft (1.8 m), 12 ft (3.6 m), or 20 ft (6.1 m)

CBL-HD-30
Crestron Certified HDMI Interface Cable, 10.2 Gbps, 30 ft (9.1 m)

CBL-HD-DVI-1.5, -3, -6, -12, -20, -30
Crestron Certified HDMI to DVI Interface Cable, 1.5 ft, 3 ft, 6 ft, 12 ft, 20 ft, or 30 ft

CBL-HD-LOCK-2, -4, -8, -16
Locking High-Speed HDMI Cable, 10.2 Gbps, 2 ft (0.6 m), 4 ft (1.2 m), 8 ft (2.4 m), or 16 ft (4.8 m)

CBL-HD-THIN-HS-6
HDMI Cable, Thin, Type A Male-to-Male, 6 ft (1.83 m)

CBL-4K-DP-HD-6, -12
Active Converter Cable, DisplayPort to HDMI, 18 Gbps, 6 ft (1.8 m) or 12 ft (3.6 m)

CBL-4K-MDP-HD-6, -12
Active Converter Cable, Mini DisplayPort to HDMI, 18 Gbps, 6 ft (1.8 m) or 12 ft (3.6 m)

CBL-VGA-1.5, -3, -6, -12, -25
Crestron Certified Mini-TRS Stereo Audio Interface Cable, 1.5 ft, 3 ft, 6 ft, 12 ft, or 25 ft

CBL-VGA-AUD-3, -6, -12, -25
Crestron Certified Computer VGA Interface Cable with Audio, 3 ft, 6 ft, 12 ft, or 25 ft

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CBL-AUDIO-1.5, -3, -6, -12
Crestron Certified Mini-TRS Stereo Audio Interface Cable, 1.5 ft, 3 ft, 6 ft, or 12 ft

DM-8G-CONN-WG-100
Connectors with Wire Guide for DM-CBL-8G DigitalMedia 8G™ Cable, 100-Pack

DM-8G-CRIMP-WG
Crimping Tool for DM-8G-CONN-WG

DM-CBL-8G-NP-SP1000
DigitalMedia 8G™ Cable, non-plenum, 1000 ft spool

DM-CBL-8G-P-SP1000
DigitalMedia 8G Cable, plenum, 1000 ft spool

DM-CBL-ULTRA-LSZH-SP1000
DigitalMedia™ Ultra Cable, Low Smoke Zero Halogen, 1000 ft spool (Available only in Europe)

DM-CBL-ULTRA-NP-SP1000
DigitalMedia Ultra Cable, Non-Plenum Type CMR, 1000 ft spool

DM-CBL-ULTRA-PC-5, -50
DigitalMedia Ultra Patch Cable, 5 ft (1.5 m) or 50 ft (15 m)

DM-CBL-ULTRA-P-SP1000
DigitalMedia Ultra Cable, Plenum Type CMP, 1000 ft spool

DM-CONN-20
Connectors for DM-CBL DigitalMedia Cable and DM-CBL-ULTRA DigitalMedia Ultra Cable, 20-Pack

DM-CONN-ULTRA-RECP-20
DigitalMedia Ultra Keystone RJ45 Jack, 20-Pack with Termination Tool

DM-RPP-K24
DigitalMedia 24-Port Keystone Patch Panel

MP-WP152-B, -W, -A
Media Presentation Wall Plate – HDMI Connectivity, Black, White, or Almond

Notes

1. For the DM Lite CATx cable connection, use Crestron DM-CBL-8G, Crestron DM-CBL-ULTRA, or third-party CAT5e or higher cable. To safeguard against unpredictable environmental electrical noise that may impact performance at resolutions above 1080p, shielded cable and connectors are recommended for all applications and are required when bundling multiple cables in a wire run. Wire and cables are sold separately. DM Lite ports are not compatible with DigitalMedia 8G+®, HDBaseT®, PoE, or PoDM technology or any other type of CATx based interface or network.
2. The HDMI input requires an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort signal. CBL-HDI-DVI interface cables are available separately.
3. The VGA input requires an appropriate breakout cable or adapter to accommodate an RGB or component video signal.
4. The HDMI output requires an appropriate adapter or interface cable to accommodate a DVI signal. CBL-HDI-DVI interface cables are available separately.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

Specifications are subject to change without notice.

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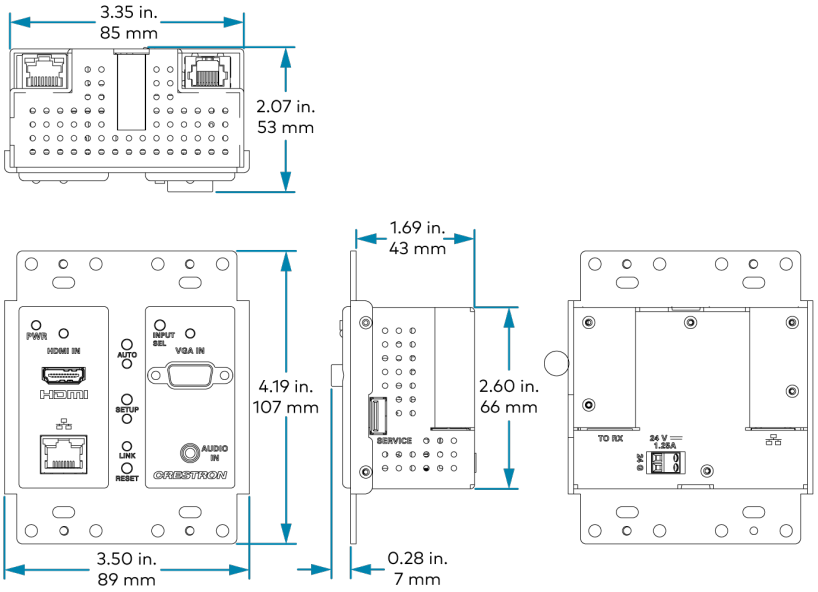

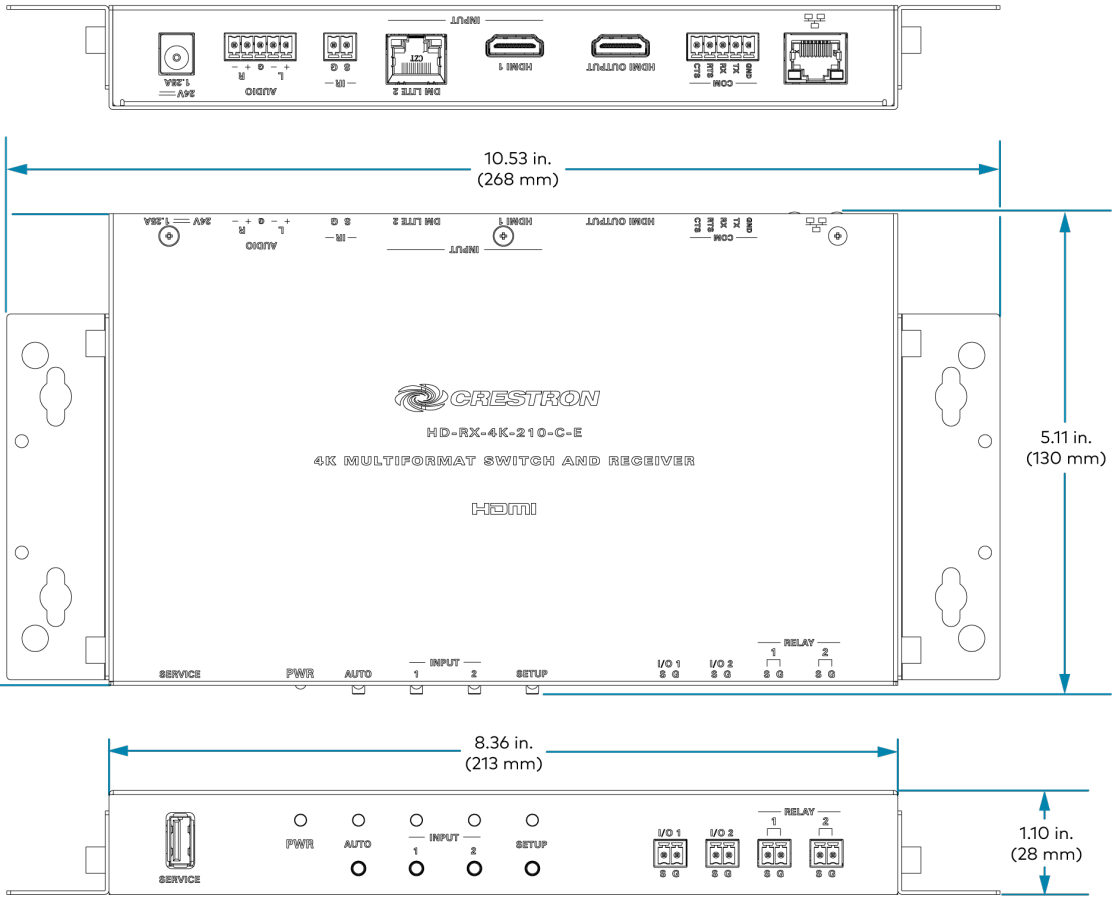

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