The Crestron® HD-MD8X8-4KZ-E, HD-MD8X4-4KZ-E, and HD-MD4X4-4KZ-E AV switchers support 4K60 4:4:4 and HDR video. The HD-MD8X8-4KZ-E includes eight HDMI® inputs and eight HDMI outputs. The HD-MD8X4-4KZ-E includes eight HDMI inputs and four HDMI outputs. The HD-MD4X4-4KZ-E includes four HDMI inputs and four HDMI outputs.



In the Box

1 HD-MD8X8-4KZ-E, HD-MD8X4-4KZ-E, or HD-MD4X4-4KZ-E AV Switcher

Additional Items

- 2 Bracket, Rack Mount, 1 RU (2032122)
- 2 Connector, 5-Pin (2003577)

HD-MD8X8-4KZ-E and HD-MD8X4-4KZ-E Only

- 1 Power Pack, 24 VDC, 2.5 A, 100-240 VAC (2045873)
- 1 Power Cord, 5 ft 10 in. (1.78 m) (2042043)



Install the Device

The device occupies 1 RU of rack space in a 19-inch EIA equipment rack.

WARNING: To prevent bodily injury when mounting or servicing the unit in a rack:

- When mounting the unit into a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.

NOTE: Observe the following rack mount installation guidelines:

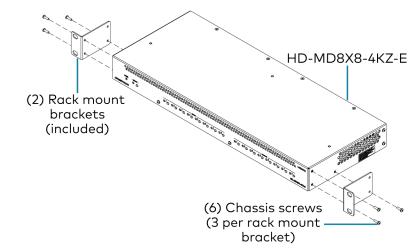
- Elevated Operating Ambient Temperature: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Reduced Airflow: Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.
- Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

• Reliable Earthing: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (for example, use of power strips).

To mount the device into a rack:

- 1. Using a #2 Phillips screwdriver, remove the three chassis screws located on the left or right side of the device and positioned closest to the front panel.
- 2. Position one of the included rack mount brackets so that the holes align with the chassis holes vacated in step 1.
- 3. Using the screws removed in step 1, attach the rack mount bracket to the device.
- 4. Repeat steps 1 through 3 to attach the remaining rack mount bracket to the other side of the device.
- 5. Mount the device into the rack using four rack mount screws (two screws per bracket, not included).

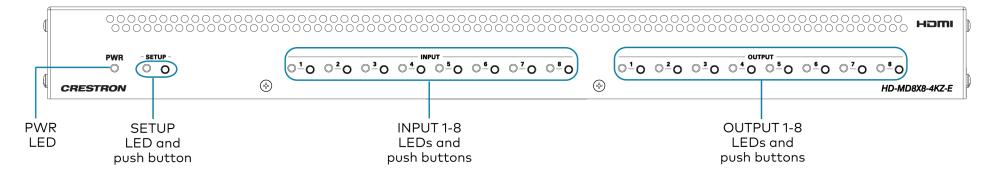
Rack Mounting (HD-MD8X8-4KZ-E Shown)





The front panel of the HD-MD8X8-4KZ-E is shown below.

Front Panel (HD-MD8X8-4KZ-E Shown)



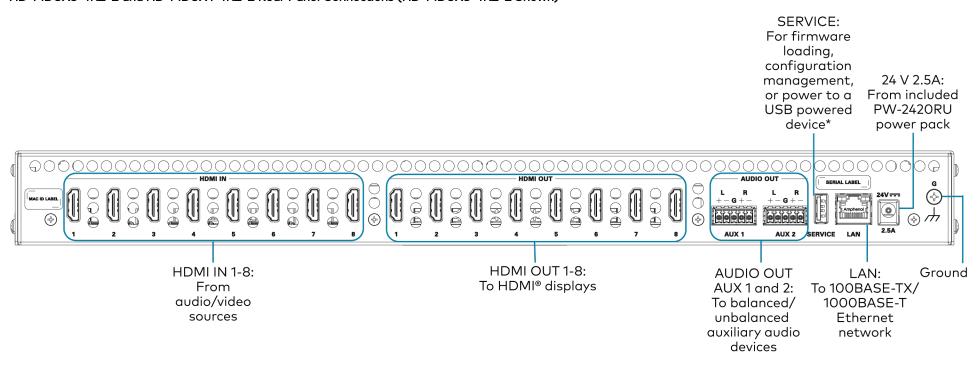




Connect the Device

Connect the rear panel of the device as required for the application.

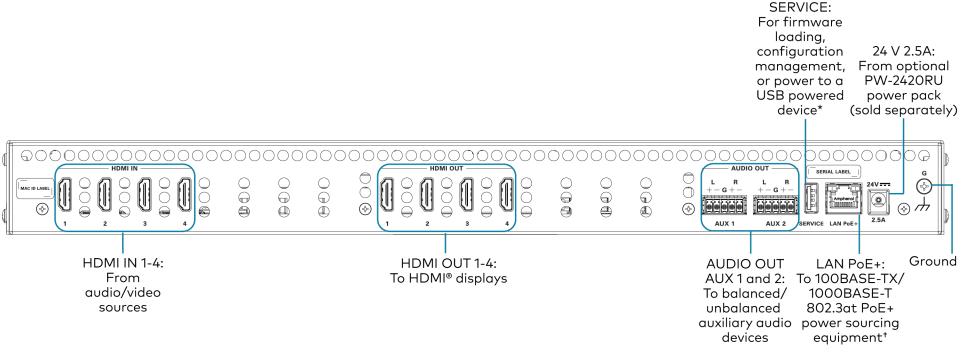
HD-MD8X8-4KZ-E and HD-MD8X4-4KZ-E Rear Panel Connections (HD-MD8X8-4KZ-E Shown)



*The SERVICE port can provide up to 5 V 500 mA power to a USB powered device.

The SERVICE port is disabled by default. For all functionality with the exception of providing power to a USB powered device, the SERVICE port must be enabled in order to be operational.

HD-MD4X4-4KZ-E Rear Panel Connections



*The SERVICE port can provide up to 5 V 500 mA power to a USB powered device. USB functionality requires use of the PW-2420RU power pack (sold separately).

The SERVICE port is disabled by default. For all functionality with the exception of providing power to a USB powered device, the SERVICE port must be enabled in order to be operational.

CAT5e (or higher) shielded twisted pair (STP) cable be used.

[†]The LAN PoE+ port is a PoE+ PD (powered device) port. In order for the port to receive PoE+, it must be connected to a PoE+ PSE (power sourcing equipment) port of a PoE+ switch. Wiring that connects to a PoE+ PSE port is designed for intrabuilding use only.

To comply with the European Directive (CE), it is recommended that high-quality solid-core

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The AUDIO OUT connectors (AUX 1 and AUX 2) use a 5-pin terminal block for balanced or unbalanced analog audio output.

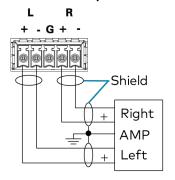
AUDIO OUT Connector



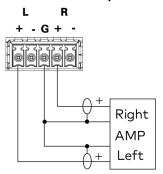
Refer to the following table and diagrams for analog audio output pin assignments and connection information.

Signal Name	Balanced Audio Output	Unbalanced Audio Output
+	L+	L+ Out
_	L-	Open
G	Shield/ground	Common ground
+	R+	R+ Out
-	R-	Open

Balanced Output



Unbalanced Output





Upgrade the Firmware

Before using the device, upgrade the firmware. The latest firmware can be downloaded from the <u>HD-MD8X8-4KZ-E</u>, <u>HD-MD8X4-4KZ-E</u>, or <u>HD-MD4X4-4KZ-E</u> product page on the Crestron website (www.crestron.com).



Configure the Device

Configure the device using the web interface. To access the web interface, open a web browser and then go to the IP address of the device.

If no account has been created, create an account by entering a user name and password. After an account is created, log in to the web interface by entering the user name and password.



Connect to the Cloud

The XiO Cloud® service allows supported Crestron devices across an enterprise to be managed and configured from one central and secure location in the cloud. Supported devices are preconfigured to connect to the service. Use of the service requires a registered XiO Cloud account.

To connect the device to the XiO Cloud service:

- Record the MAC address and serial number that are labeled on the shipping box or rear panel of the device. The MAC address and serial number are required in order to add the device to the XiO Cloud environment.
- 2. Do either of the following:
 - If you have an XiO Cloud account, go to https://portal.crestron.io
 to access the XiO Cloud service.
 - If you do not have an XiO Cloud account, go to <u>www.crestron.com/xiocloud</u> to register for an account.

For detailed information about using the XiO Cloud service, refer to the XiO Cloud Provisioning and Management Service User Guide (Doc. 8214).



Observe the LED Indicators

Refer to the following table for information about the LED indicators on the device.

LED Indicator	Color	Meaning
PWR	Amber	Power is being applied to the device. The device is booting.
	Green	Power is being applied to the device. The device is operational.
SETUP	Red	The SETUP button is pressed.
INPUT 1-8 or 1-4	Green	The corresponding input is routed to the output.
	Amber	The corresponding input is detected but is not routed to the output.
OUTPUT 1-8 or 1-4	Green	The corresponding output is transmitting video.
	Amber	The corresponding output is detected but no video is routed.
Ethernet	Green	A 100BASE-TX link is established.
	Amber	A 1000BASE-T link is established.
	Flashing amber	Data activity is occurring on the Ethernet link.



Visit the Product Page

Scan the QR code to visit the product page.

HD-MD8X8-4KZ-E



www.crestron.com/model/6511310

HD-MD8X4-4KZ-E



www.crestron.com/model/6511309

HD-MD4X4-4KZ-E



www.crestron.com/model/6511308

Additional Information

Original Instructions

The U.S. English version of this document is the original instructions. All other languages are a translation of the original instructions.

Regulatory Model: M201946002, M201946003

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