MaxColor™ Series
MC-TX1

Just Add Power
AV over IP Solutions

4K60 Standard Encoder

The MaxColor™ 4K60 MC-TX1 Encoder delivers true native 4K60 input, ensuring pristine 4K UHD video distribution from the latest high-resolution sources — with no downscaling or subsampling. MaxColor transports stunning 4K video across a standard 1Gb managed network using your existing Cat5e/Cat6 infrastructure, eliminating the need for fiber upgrades or costly network switches. The MC-TX1 Encoder is designed specifically for handling your video sources, providing a flexible, reliable way to bring high-quality content into any MaxColor system.

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All specifications subject to change without notice.

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Video

Maximum Input	4096x3840, 60fps, 36-bit color depth, YUV422 4096x3840, 60fps, 24-bit color depth, YUV444 2560x1440, 60fps 2560x1080, 120fps 1920x1080, 60fps, 36-bit color depth, YUV444
Maximum Output	4096x3840, 60fps, 36-bit color depth, YUV444
Dynamic Range	SDR, HLG, HDR10, HDR10+, Dolby Vision
HDMI Standard	HDMI 2.0b/2.1
EDID Management	Default, Built-in, Custom, and Captured

Audio

Supported Audio	All Audio Formats Audio Return Channel (ARC)
Stereo Audio Maximum Sample Rate	192kHz

Compliance

Certification	FCC/CE/ROHS/RCM
HDCP Compliance	2.2, 2.3

Endpoint Control

Endpoint Control Features	Serial Pass-through, Serial over IP, IR over IP, and CEC over IP

Image Pull

Format & Video Sub-stream	JPEG & mJPEG
Maximum Framerate	30 fps

USB (KVM)

USB Standard	USB 2.0
USB Features	Keyboard, Mouse, Touchscreen Pass-through, Webcam and Microphone Pass-through

Network

Maximum Bandwidth	850 Mbps
Average Bandwidth	850 Mbps
Video Codec	Proprietary AGIC-G3 Visually Lossless
Audio Codec	Proprietary I2S Lossless
Encryption	AES-256 Hardware Based Crypto Engine

MC-TX1 Specifications

Dimensions	171 x 30 x 127 mm 6.7 x 1.2 x 5.0 inch
Weight	0.46 kg / 1.0 lb
Ports	RJ-45 (1Gb Network) HDMI In 3-pin Euroblock Stereo Out 3-pin Euroblock IR Out 3-pin Euroblock 2-Way RS232
Power Supply	5V-18V, 10W 5.5mm/2.1mm, positive tip
Operating Temp	0-60 °C / 32-140 °F
Device Type	Encoder
POE	IEEE 802.3af (15.4W)
Current Version Release Date	May 2024

Previous Hardware Version:

H1: Manufacture Dates: February 2022 - May 2024

See page 4 for specifications.

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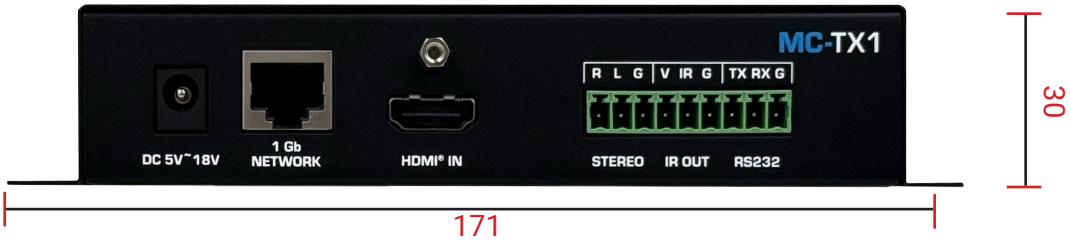
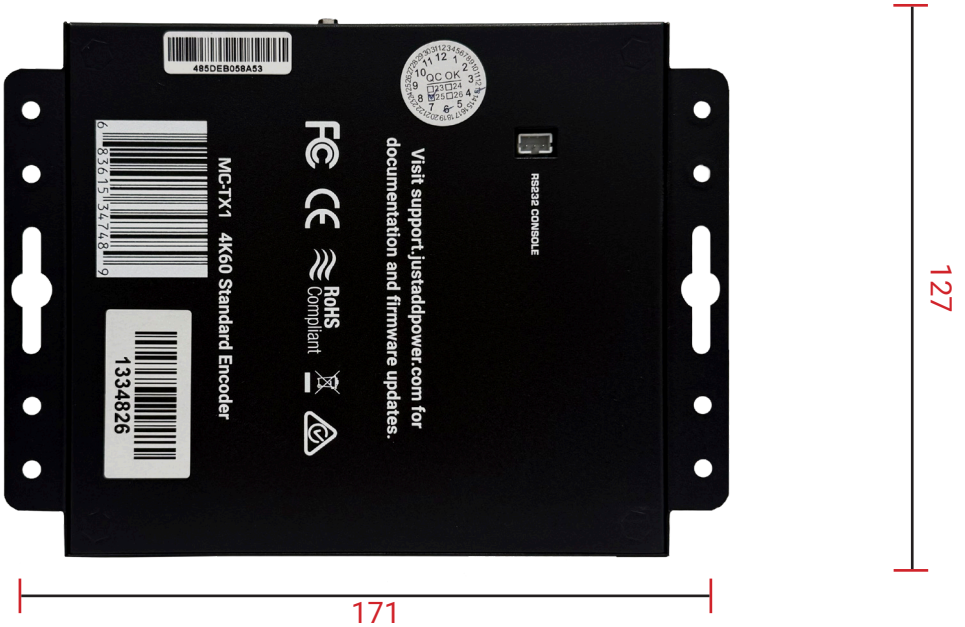
Front of Device:

Back of Device:



Bottom of Device:



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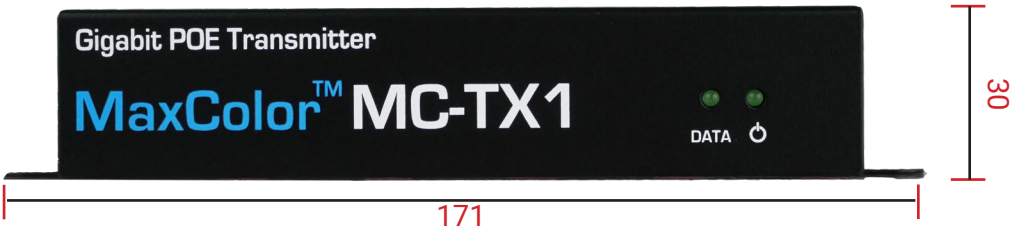
MC-TX1 Previous Hardware Version H1

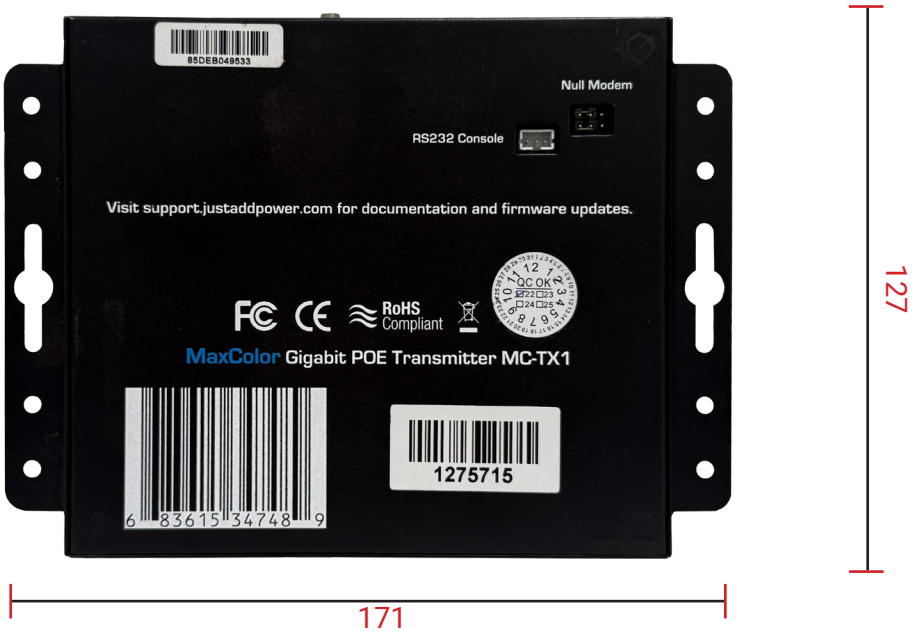
Manufacture Dates: February 2022 - May 2024

H1 Front of Device:



H1 Back of Device:

H1 Bottom of Device:



Specifications

H1 Ports	RJ-45 (1Gb Network) HDMI In 3.5mm Stereo Out 3.5mm IR Out 3.5mm 2-Way RS232
Dimensions & Weight	171 x 30 x 127 mm 6.7 x 1.2 x 5.0 inch 0.47 kg / 1.0 lb
Power Supply (not included)	4.7-23V, 10W 5.5mm/2.1mm, positive tip

MaxColor™ Series
MC-TX1

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Need product images for your marketing?

Check out our Sales Partner Resource Page!

www.justaddpower.com/sales-partner-resources/

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Maximum Output	4096x3840, 60fps, 36-bit color depth, YUV444
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Maximum Bandwidth	850 Mbps
Average Bandwidth	850 Mbps
Video Codec	Proprietary AGIC-G3 Visually Lossless
Audio Codec	Proprietary I2S Lossless
Encryption	AES-256 Hardware Based Crypto Engine

MC-TX1 Specifications

Dimensions	157 x 30 x 127 mm 6.2 x 1.2 x 5.0 inch
Weight	0.43 kg / 0.95 lb
Ports	RJ-45 (1Gb Network) HDMI In 3-pin Euroblock Stereo Out 3-pin Euroblock IR Out 3-pin Euroblock 2-Way RS232
Power Supply	POE only
Operating Temp	0-60 °C / 32-140 °F
Device Type	Encoder
POE	IEEE 802.3af (15.4W)
Current Version Release Date	

Previous Hardware Version:

H1: Manufacture Dates: February 2022 - May 2024

H2: Manufacture Dates: May 2024 -

See page 4 for specifications.

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MaxColor™ Series
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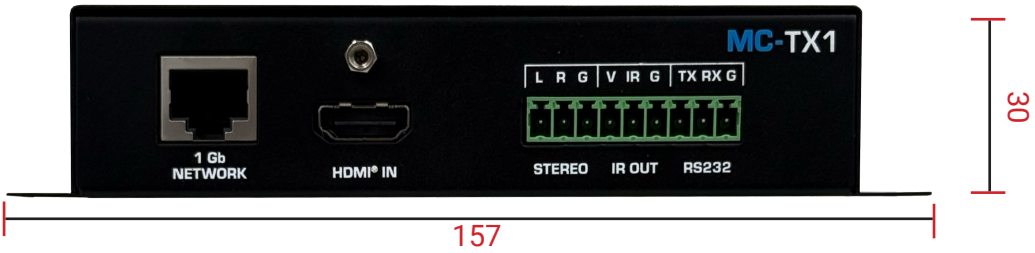
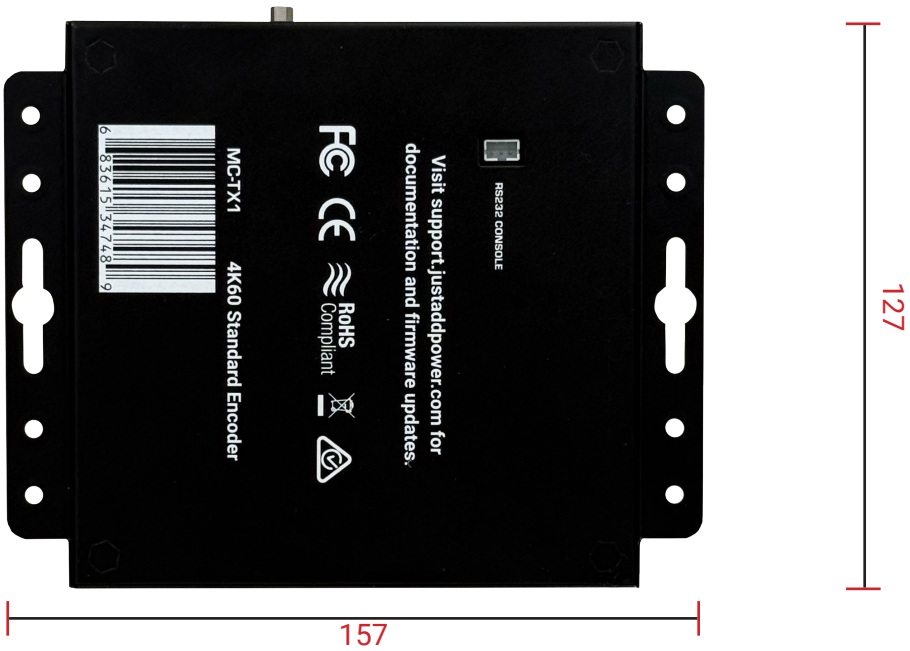
Back of Device:



Bottom of Device:



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MC-TX1 Previous Hardware Version H1

Manufacture Dates: February 2022 - May 2024

H1 Back of Device:

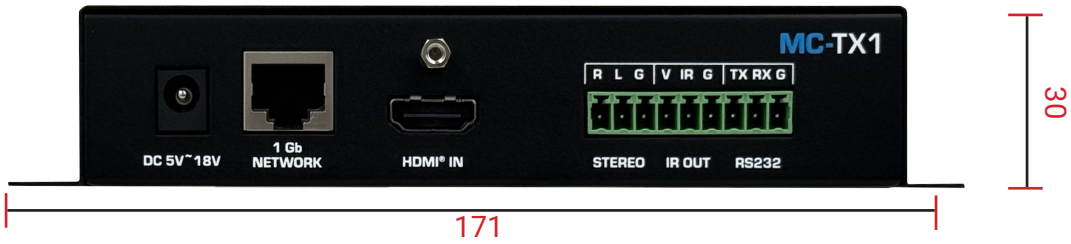
Specifications

H1 Ports	RJ-45 (1Gb Network) HDMI In 3.5mm Stereo Out 3.5mm IR Out 3.5mm 2-Way RS232
Dimensions & Weight	171 x 30 x 127 mm 6.7 x 1.2 x 5.0 inch 0.47 kg / 1.0 lb
Power Supply (not included)	4.7-23V, 10W 5.5mm/2.1mm, positive tip

MC-TX1 Previous Hardware Version H2

Manufacture Dates: May 2024 -

H2 Back of Device:



Specifications

H1 Ports	RJ-45 (1Gb Network) HDMI In 3-pin Euroblock Stereo Out 3-pin Euroblock IR Out 3-pin Euroblock 2-Way RS232
Dimensions & Weight	171 x 30 x 127 mm 6.7 x 1.2 x 5.0 inch 0.47 kg / 1.0 lb
Power Supply (not included)	4.7-23V, 10W 5.5mm/2.1mm, positive tip

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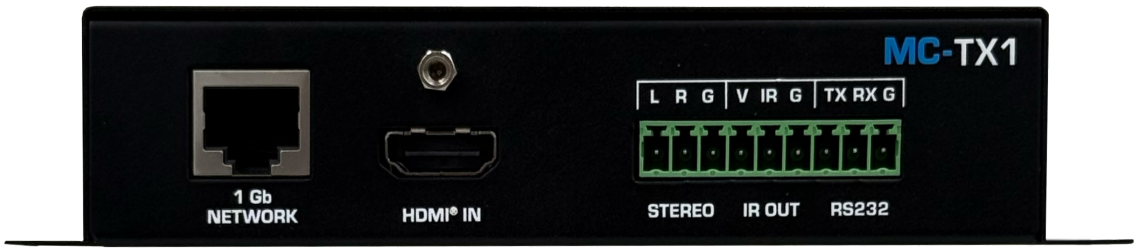

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