



HD4K-EDID-EMLTR HDMI 2.0 EDID Emulator

The HD4K-EDID-EMLTR HDMI 2.0 EDID Emulator copies the EDID of the desired HDMI display and connects directly to the HDMI source to ensure that the EDID is not lost in connections between devices such as switches, splitters, and extenders.

- Emulates an HDMI display (sink device) by providing Hot Plug Detect and EDID to the HDMI source device.
- Supports Ultra-HD 4Kx2K resolutions up to 3840x2160 @60Hz 4:4:4, 2560x1440p (WQHD), HDTV resolutions to 1080p, and up to 1920x1200 (WUXGA).
- HDMI features supported:
 - HDMI 2.0
 - 12-bit Color \ 36-bit Deep Color
 - RGB, YCC 4:4:4, YCC 4:2:2
 - Dolby, LPCM, DTS
 - Bandwidth up to 600 Mhz (18Gbps)
 - Support for CEC (consumer electronic control) compatible devices.
 - 3D
 - HDR
- HDCP 2.2 compliant.
- Supports Learning and Emulation modes.
 - Learning mode: store a display's EDID for later use.
 - Emulation mode: provides EDID to the HDMI source device from the emulator's internal memory.
 - Supports headless operation – no monitor attached to source.
- Pre-programmed with many standard resolutions with native set to 1080p.
 - Use learning mode to program other resolutions.
- LED indicators provide signal status information.
- Compact design for easy installation and operation.
- No power supply - powered by video source.
- Ideal for resolving signal handshaking problems between a source and a display.

Installation

1. Plug the HDMI male ("Source") connector of the HD4K-EDID-EMLTR emulator into the HDMI video source.
2. Connect an HDMI cable between the emulator (at "Display") and the HDMI display device.
3. Unplug the HDMI cable from the emulator, causing the blue LED to flash. This indicates the emulator is in Learning Mode.
4. Within 10 seconds, plug the HDMI cable back into the emulator. The Green and Blue LEDs should change to solid ON, indicating that Learning Mode has been successful and the emulator is now in Emulation Mode.

Note: If the HDMI emulator needs to be reset back to its default EDID resolution of 1080p, simply unplug the HDMI cable from the emulator. The emulator will return to Learning Mode. Allow the 10 seconds to elapse, at which time the blue LED will turn OFF and Learning Mode will fail. The emulator will now be set to 1080p.

To prevent the HD4K-EDID-EMLTR from going into Learning Mode, unplug the emulator from the video source before disconnecting it from the display device.

Specifications

Video Format	HDMI 2.0
Max. Resolution	3840x2160p@60Hz
Default Resolution	1920x1080p@60Hz
Color Depth	RGB/YCC444/YCC422: 12-bit
Support pass-through	Yes
Support headless (no monitor actually attached)	Yes
HDCP Support	HDCP 2.2
3D Support	Yes
CEC Support	Yes
Audio Format	LPCM, Dolby, DTS
Power Supply	By video source
Dimension	1.693 x 0.9449 x 0.3937 in
	43 x 24 x 10 mm
Compliance	CE, FCC, RoHS

Video EDID

Resolution	Resolution	Resolution
640 x 480p at 60Hz	1024 x 768p at 60Hz	1920 x 1080p at 60Hz
640 x 480p at 67Hz	1024 x 768p at 70Hz	1920 x 1080p at 50Hz
640 x 480p at 72Hz	1024 x 768p at 75Hz	1920 x 1080i at 60Hz
640 x 480p at 75Hz	1152 x 870p at 75Hz	1920 x 1080i at 50Hz
720 x 480p at 60Hz	1152 x 864p at 75Hz	1920 x 1200p at 60Hz
720 x 480i at 60Hz	1280 x 1024p at 75Hz	2560 x 1440p at 60Hz
720 x 400 at 70Hz	1280 x 720p at 50Hz	3840 x 2160p at 24Hz
720 x 576 at 60Hz	1280 x 1024p at 60Hz	3840 x 2160p at 30Hz
720 x 576i at 50Hz	1280 x 960p at 60Hz	3840 x 2160p at 60Hz
800 x 600p at 56Hz	1440 x 480p at 60Hz	
800 x 600p at 60Hz	1440 x 900p at 60Hz	
800 x 600p at 72Hz	1600 x 1200p at 60Hz	
800 x 600p at 75Hz	1680 x 1050p at 60Hz	
832 x 624p at 75Hz		

Audio EDID

LPCM 2-channel, 16/20/24 bit depths at 32/44/48/88/96/176/192 kHz