



48Gbps HDMI 2.1 Audio De-embedder

The 48Gbps HDMI audio de-embedder is designed to extract audio signals from an HDMI source or ARC-compatible TV. It outputs both analog stereo and digital S/PDIF audio, along with a buffered HDMI video output. With support for data rates up to 48Gbps, it meets HDMI 2.1 and HDCP 2.3 standards, and is compatible with UHD TV 8K@60Hz. Featuring EDID management and cable equalization, it offers seamless integration into HDMI setups. This device provides a simple solution for HDMI installations, allowing audio signals to be sent to stereo audio or surround sound systems.

Feature Highlights

- HDMI 2.1 and HDCP 2.3 compliant
- Support 48Gbps FRL and 18Gbps TMDS video bandwidth
- Support video resolution up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit
- HDMI 2.1 protocols: VRR, ALLM, QMS, QFT, SBTM are supported
- HDR, HDR 10, HDR 10+, Dolby Vision, HLG pass-through
- LPCM 7.1CH, Dolby TrueHD, Atmos and DTS-HD Master, DTS:X Audio pass-through
- HDMI input audio or TV ARC audio de-embedded to S/PDIF and L/R audio output
- Support CEC control from output devices to input sources
- Advanced EDID management
- Compact design for easy and flexible installation

TECHNICAL

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12bit
Audio Formats	HDMI IN/OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DSD, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X AUDIO BREAKOUT: OPTICAL OUT: PCM 2.0CH, Dolby, DTS 5.1CH L/R OUT: PCM 2.0CH
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

CONNECTIONS

Input:	1 × Source IN [HDMI Type A, 19-pin female]
Output:	1 × TV(eARC) OUT [HDMI Type A, 19-pin female] 1 × L/R [3.5mm Stereo mini-jack] 1 × OPTICAL [S/PDIF, female]
Control:	1 × SERVICE [USB Type C, Update port]

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimension	95mm [W] × 68mm [D] × 18mm [H]
Weight	178g
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	4.W (Max)
Operation Temperature	032 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20~90% RH (non-condensing)

RECOMMENDED HDMI CABLES

VIDEO RESOLUTION	8K60	4K60	1080P
HDMI CABLE TYPE	Ultra HDMI 2.1 cable	HDMI 2.0 cable	HDMI cable
HDMI CABLE LENGTH (HDMI IN/ OUT)	2m/6.6ft ~ 3m/10ft	10m/33ft	15m/49ft

The use of "Premium High Speed HDMI" cable is highly recommended.

Classic Application Example

