



## Introduction

The Atlona **AT-HDR-M2C** is an audio converter for extracting and downmixing multi-channel PCM, Dolby, and DTS audio from HDMI sources. It features an HDMI input with pass-through, and delivers stereo downmixed audio over a separate HDMI output, as well as unbalanced analog and TOSLINK digital audio outputs. The HDR-M2C is compatible with high dynamic range (HDR) formats and is HDCP 2.2 compliant. It supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. This audio converter includes EDID management features as well as audio volume and bass / treble controls, all available via Ethernet through the Atlona Management System (AMS), the web GUI, or a control system. The HDR-M2C can conveniently serve surround sound and two-channel audio systems from a multi-channel audio source.

The HDR-M2C is ideal for residential and commercial applications with the latest as well as emerging 4K/UHD and HDR sources and displays. It is compatible with all video resolutions, audio formats, and color space formats supported in the HDMI 2.0a specification, plus the ability to pass metadata for HDR content. The HDR-M2C includes Atlona's award-winning 10-year limited product warranty and customer support services, so that integrators can specify, purchase, and install with confidence.

## Applications

- Residential and commercial installations**  
 The HDR-M2C is designed for AV systems with the latest UHD and HDR sources such as Ultra HD Blu-ray players, plus compatible televisions and projectors.
- Audio compatibility**  
 The HDR-M2C is ideal for applications requiring playback of multi-channel source content over displays and whole-house audio systems.

## Key Features

### HDMI audio de-embedding and multichannel audio downmixing

- De-embeds HDMI audio with or without connection to a display or other destination.
- Provides easy integration of HDMI audio sources into whole-house and other audio systems.

### Downmixes multi-channel audio to stereo audio

- Extracts, decodes, downmixes, and converts digital multichannel bitstreams to two-channel signals.
- Provides easy integration of HDMI audio sources into whole-house and other audio systems.

### 4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR formats

- Compatibility with new and emerging 4K/UHD and HDR-capable sources and displays.
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0a specification.

### HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection.
- Allows protected content stream to pass between devices.

### Delivers downmixed audio to HDMI, TOSLINK digital audio, and analog audio outputs

- Provides flexible options for integrating with displays and audio systems.
- Also passes through the HDMI input with no downmixing.

### Volume and tone adjustments

- Adjustment of output volume, plus bass and treble settings via AMS and the webGUI.
- Avoids the need for an external DSP to set gain and tone controls.

### EDID management

- Manages EDID communications with the source through a display's EDID or internally stored EDID.
- Ensures desired audio formats and video resolutions are provided to the AV system.

### Easy, GUI-based configuration using integrated web server

- Offers menu-based configuration of network settings, audio, and EDID management.
- Allows fast configuration of internal product settings and troubleshooting from a mobile device or PC in the field.

### Configured and managed by AMS (Atlona Management System)

- This IP-controllable product can be remotely managed by the free Atlona Management System software.
- Integrates product configuration, management, and updates to reduce installation time and enable support over a LAN, WAN, or VPN.
- Greatly streamlines installation and maintenance of several Atlona products throughout a facility or enterprise, from a standard web browser.

## Key Features (continued)

### Front panel power and signal status LEDs

- LED indicators provide power status and audio format identification.
- Provides easy setup and troubleshooting.

### Low-profile, 1 inch (25 mm) high enclosure

- Easy installation into racks and confined spaces.
- Keeps devices out-of-sight when placed in public spaces.

### Configured and managed by AMS

- This IP-controllable product is remotely managed by the Atlona Management System software.
- Integrates product configuration, management, and updates to reduce installation time and enable remote support.

### Specifications

Video		
Signal Type	HDMI	
HDCP	1.4	
Pixel Clock	300MHz	
UHD/HD/SD	4096x2160@60/50/30/25/24Hz 3840x2160@60/50/30/25/24Hz 2048x1080p 1920x1080p@60/59.94/50/30/29.97/25/ 24/23.98Hz 1920x1080i@60/59.94/50Hz	1280x720p@60/59.94/50Hz 720x576p 720x576i 640x480p 640x480i
VESA	1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1366x768 1360x768	1280x1024 1280x800 1152x768 1024x768 800x600 640x480
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	

Audio	
Analog Output	PCM 2Ch (de-embedded)
Optical Output	PCM 2Ch (de-embedded)
HDMI Output	PCM 2Ch, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS 5.1
Sample Rate	32kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Bit Rate	up to 24-bit
THD	0.003593%, 20 Hz, 1 kHz - 20 kHz
SNR	110.009 dB
Frequency Range	20 Hz to 20 kHz
Bass	+12 dB to -15 dB @ 20 Hz - 20 kHz
Treble	+15 dB to -15 dB @ 20 Hz - 20 kHz

Resolution / HDMI cable length	4K / UHD - Feet / Meters		1080p - Feet / Meters	
HDMI @ 60 Hz	6	2	30	10
HDMI UHD @ 24 Hz	16	5	50	15

Signal	
Bandwidth	18 Gbps
CEC	Compliant
HDCP	2.2-compliant

Temperature	Fahrenheit	Celsius
Operating	32 to 122	0 to 50
Storage	-20 to 60	-4 to 140
Humidity (RH)	20% to 90%, non-condensing	

Power		
Consumption	6.6 W	
BTU/h	22.5	
Supply	Input: 110 - 220 V AC, 50/60 Hz; Output: 5 V DC, 4 A	
Dimensions		
	Inches	Millimeters
H x W x D	1.02 x 4.29 x 5.00	26 x 109 x 127
H x W x D (w / ears)	1.02 x 4.29 x 5.39	26 x 109 x 137
Weight		
	Pounds	Kilograms
Device	0.8	0.36
Certification		
	Product	Power Supply
Device	CE, FCC	CE, FCC, cULus, RoHS, CCC, RCM
Warranty		
Device	To view the product warranty, use the following link: <a href="https://atlon.com/warranty">https://atlon.com/warranty</a>	

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