



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 analog unbalanced, and TOSLINK digital audio outputs. The AT-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 AT-HDR-M2C can conveniently serve surround sound and two-channel audio systems from a multichannel audio source.

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

- Supports PCM, Dolby Digital, Dolby Digital Plus™, Dolby TrueHD, Dolby Atmos®, DTS Digital Surround™, DTS-HD Master Audio™, and DTS:X™
- De-embeds HDMI audio with or without connection to a display or other destination

#### **Downmixes multi-channel audio to stereo audio -**

- Extracts, decodes, downmixes, and converts digital multi-channel 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 web GUI
- 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

#### **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 Resolutions

|                    |   |  |
|--------------------|---|--|
| Video              | 4096x2160@24/25/30/50/60Hz, 3840x2160@24/25/30/50/60Hz, 2048x1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i |  |
| 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  |  |
| Color Depth        | 8-bit, 10-bit, 12-bit   |  |

### Audio

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

### Distance

|                 |                 |               |
|-----------------|-----------------|---------------|
| HDMI UHD@60Hz   | up to 2 meters  | up to 6 feet  |
| HDMI UHD@24Hz   | up to 5 meters  | up to 16 feet |
| HDMI 1080p@60Hz | up to 10 meters | up to 30 feet |
| HDMI 1080p@24Hz | up to 15 meters | up to 50 feet |

### Signal

|           |               |
|-----------|---------------|
| Bandwidth | 18 Gbps       |
| CEC       | Compliant     |
| HDCP      | 2.2-compliant |

### Temperature

|           |                          |               |
|-----------|--------------------------|---------------|
| Operating | 0°C to 50°C              | 32°F to 122°F |
| Storage   | -20°C to 60°C            | -4°F to 140°F |
| Humidity  | 20 to 90% non-condensing |               |

### Power

|             |   |
|-------------|---|
| Consumption | 6.6W  |
| Supply      | Input: AC 100~240 VAC 50/60Hz<br>Output: DC 5V 4A |

### Dimension

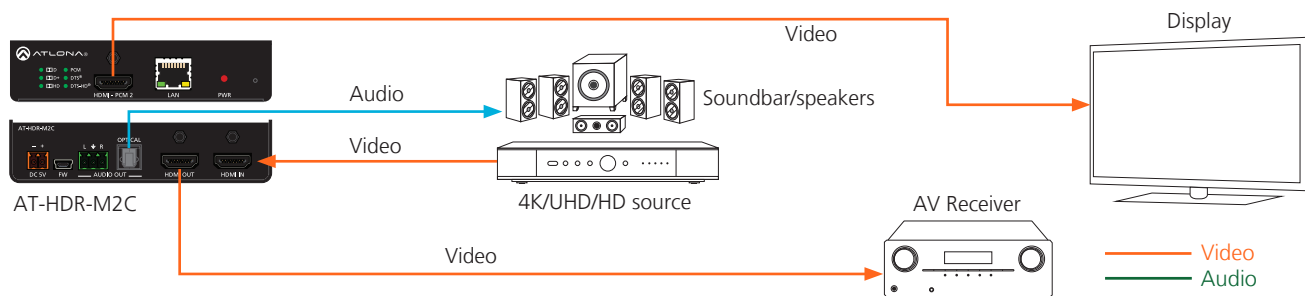
|                  |                     |                           |
|------------------|---------------------|---------------------------|
| H x W x D        | 26 x 127 x 109 (mm) | 1.02 x 5.00 x 4.29 (inch) |
| H x W x D w/ears | 26 x 137 x 109 (mm) | 1.02 x 5.39 x 4.29 (inch) |

### Weight

|      |         |         |
|------|---------|---------|
| Unit | 0.36 kg | 0.8 lbs |
|------|---------|---------|

### Certification

|              |                                |
|--------------|--------------------------------|
| Power Supply | CE, FCC, cULus, RoHS, CCC, RCM |
| Product      | CE, FCC                        |



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