The Atlona AT-UHD-M2C-BAL is an audio converter used to extract and downmix multi-channel digital Dolby® and DTS® surround sound signals from HDMI sources to balanced analog signals for professional audio systems. The converter provides controls for one- or two-channel mode, volume, mute, bass, and treble via RS-232, TCP/IP, and a web-based GUI. A balanced analog audio output is provided on a 5-pin captive screw connector. The video pass-through design of the AT-UHD-M2C-BAL allows it to be placed anywhere in the signal path where a convenient audio feed to the sound system is required.

In commercial applications where audio is provided by an HDMI source, integrators need an easy solution to extract balanced, +4 dBu, two-channel or monaural audio for professional sound reinforcement systems while maintaining full 4K/UHD video signal integrity for video switching and distribution systems. Integrated control reduces total cost in simple systems potentially eliminating a DSP or other volume control device.

The AT-UHD-M2C-BAL is ideal for use in training or meeting spaces that require audio from PCs or Blu-ray players to be routed to a distributed speaker system. The converter is placed in line between the source and the HDBaseT transmitter or switcher in order to provide a feed to both the sound and video systems.

Universal de-embedder for Dolby and DTS signals -
- Supports PCM, LPCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS Digital Surround®, and DTS-HD Master Audio®
- Allows any multi-channel audio stream to be used within a professional audio system

Downmixes multi-channel audio to 1 or 2-channel audio -
- Extracts, decodes, downmixes and converts digital multi-channel streams to analog two-channel or summed mono signals
- Provides easy integration of HDMI audio sources into professional audio systems

Balanced audio output -
- Professional, +4 dBu audio is provided on a 5-pin captive screw connector
- Allows for fast and proper integration with professional sound systems

Volume and EQ adjustment -
- On-board adjustment of output volume, bass, and treble settings via RS-232 and web-based GUI
- Audio adjustment without external DSP

4K/UHD support -
- Supports all HDMI resolutions up to 4K/UHD including 4K @ 30 Hz, 4:2:2
- Ensures all high-resolution signals are passed to video system

Control capabilities -
- RS-232, TCP/IP, and web-based GUI provide external control of volume, mute, bass, and treble
- Easy interface to control systems for simplified audio system adjustments

Default switch -
- Allows volume, mute, EQ, and 2- /1-ch. settings to be externally controlled (Adjust) or reset to factory settings (Default)
- Provides quick troubleshooting adjustment when control systems are not available

Specifications

Video Resolutions

Video	4096x2160@24/25/30Hz, 3840x2160@24/25/30Hz, 2048x1080p, 1080p@23.98/24/25/29.97/30Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i
VESA	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 800x600, 640x480
Colorspace	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2
Color depth	8-bit, 10-bit, 12-bit

Audio

Formats - HDMI IN/OUT	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio
Format - Captive screw analog	Balanced +4 dBu, 2Ch
Sample Rate	32kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Total Harmonic Distortion	0.0008% (dB, sample frequency: 48kHz)
Signal/Noise Ratio	142dB
Frequency Range	20Hz to 20kHz $^{+/-}$.1dB
Crosstalk	<−103dB
Bass	15dB to -15dB @ 500Hz
Treble	15dB to -15dB @ 2kHz

Distance (per port)

HDMI @ 1080p	10 meters	30 feet
HDMI @ 4K	5 meters	15 feet

Signal

Bandwidth	10.2 Gbps
CEC	Pass through
HDCP	Switchable - Complaint / Non 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	7W
Supply	Input: AC 100-240V ~ 50/60Hz Output: DC 5V / 2.6A

Dimension

H x W x D	30 x 125 x 110 (mm)	1.18 x 4.92 x 4.33 (inch)

Weight

Device	0.28 kg	0.61 lbs

Certification

Power Supply	CE, FCC, cULus, RCM
Product	CE, FCC

— Video
— Audio
— Control
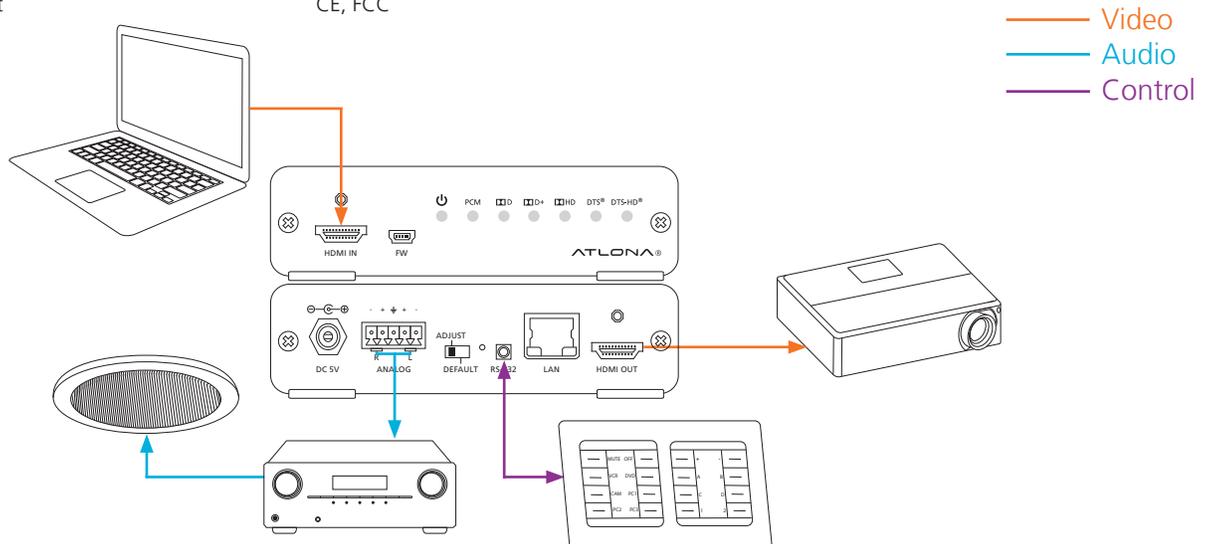
Specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here. Not responsible for typographical errors.