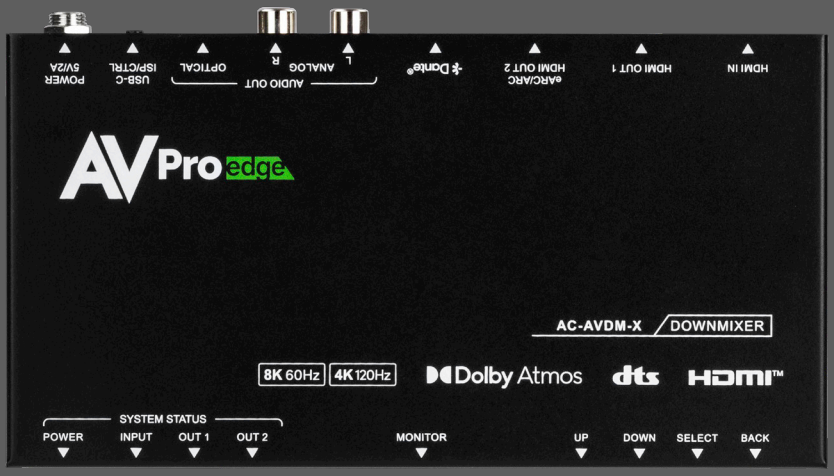
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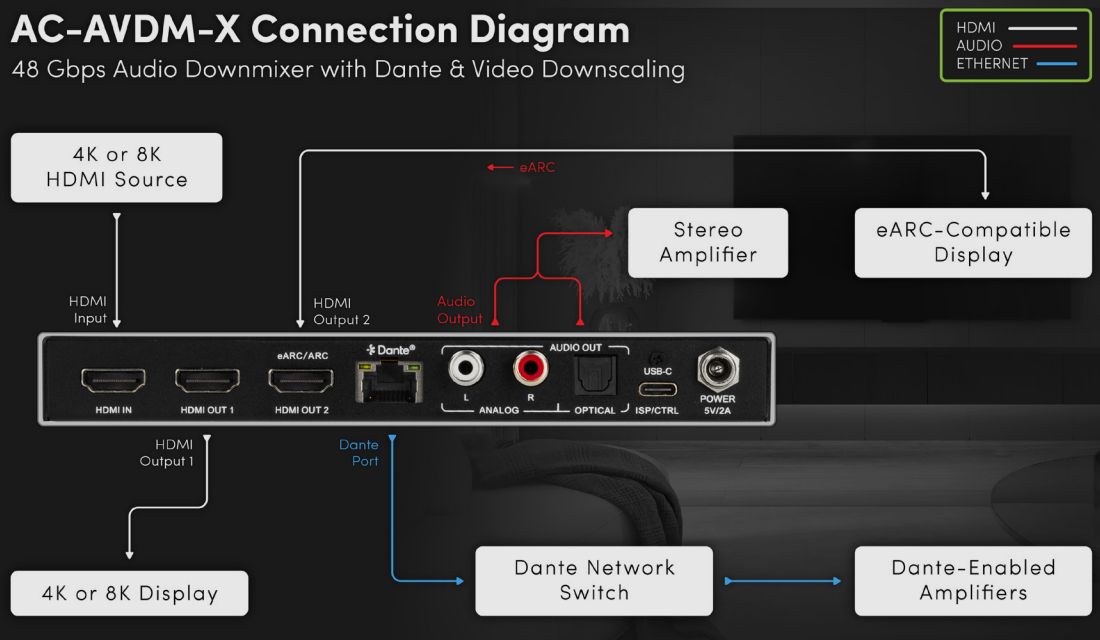

# 8K HDMI 8-Channel Audio Downmixer

## AC-AVDM-X

AC-AVDM-X is an 8K UHD HDMI audio downmixer designed to extract and convert advanced audio formats without compromising video quality. It decodes and downmixes supported Dolby® and DTS® formats and outputs stereo LPCM 2.0 over HDMI™, optical, analog RCA, and Dante Ethernet. It also passes through HD and standard bitstream formats, including Dolby Atmos® and DTS:X®, and LPCM 7.1 with sampling rates up to 192 kHz.

## AC-AVDM-X Connection Diagram

48 Gbps Audio Downmixer with Dante & Video Downscaling



## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **VIDEO:** | |
| VIDEO RESOLUTIONS | UP TO 8K 60HZ 4:4:4/8K 30HZ 4:4:4/4K 120HZ |
| HDR FORMATS/RESOLUTIONS | HDR10, HDR10+, HLG, DOLBY VISION™ |
| COLOR SPACE | YUV (COMPONENT), RGB (CSC: REC. 601, REC. 709, BT2020, DCI, P3 D6500) |
| CHROMA SUBSAMPLING | 4:4:4, 4:2:2, 4:2:0 SUPPORTED |
| DEEP COLOR | UP TO 16-BIT |
| DOWNSCALING (OUTPUT 1) | 4K TO 1080P |
| BANDWIDTH | 48 GBPS (FRL 6) |
| HDCP | HDCP 2.3 AND EARLIER |
| **AUDIO:** | |
| SUPPORTED AUDIO FORMATS (HDMI PASS-THROUGH) | PCM 2.0 CH, LPCM 5.1 & 7.1, DOLBY DIGITAL™, DTS® 5.1, DOLBY DIGITAL PLUS™, DOLBY® TRUEHD, DTS-HD® MASTER AUDIO™, DTS:X®, DOLBY ATMOS® |
| SUPPORTED DOWNMIXED AUDIO FORMATS (2-CH, TOSLINK, S/PDIF, HDMI) | LPCM UP TO 2.0, 96 KHZ 24-BIT, DOLBY DIGITAL 5.1, DOLBY DIGITAL PLUS, DTS-HD HIGH RESOLUTION AUDIO, DTS-DIGITAL SURROUND, DTS-ES DISCRETE |
| AUDIO FORMATS SUPPORTED EXTRACTED (DANTE) | PCM 2 CH |
| **DISTANCE:** | |
| HDMI IN/OUT (4K60 4:4:4) | UP TO 50 FEET (USING BULLET TRAIN HDMI) |
| HDMI IN/OUT (W/ AOC CABLE) (4K60 4:4:4) | UP TO 130 FEET (USING BULLET TRAIN AOC) |
| **OTHER:** | |
| BANDWIDTH | 48 GBPS (FRL 6) |
| HDCP | HDCP 2.3 AND EARLIER |
| **PORTS:** | |
| HDMI (TX & RX) | TYPE A (1 INPUT AND 2 OUTPUTS) |
| AUDIO (EXTRACTED ANALOG) | L/R STEREO PHONO (SINGLE-ENDED) |
| AUDIO (EXTRACTED TOSLINK) | OPTICAL TOSLINK |
| DANTE | DANTE NETWORK ETHERNET |
| ISP/CTL | USB TYPE-C |
| POWER | LOCKING BARREL TYPE CONNECTOR |
| **ENVIRONMENTAL:** | |
| OPERATING TEMPERATURE | 23 TO 125°F (-5 TO 51°C) |
| STORAGE TEMPERATURE | -4 TO 140°F (-20 TO 60°C) |
| HUMIDITY RANGE | 5-90% RH (NO CONDENSATION) |
| **POWER:** | |
| POWER CONSUMPTION (TOTAL) | 6 WATTS MAX |
| POWER SUPPLY | INPUT: AC 100-240V ~ 50/60HZ \| OUTPUT: DC 5V/2A |
| **DIMENSIONS:** | |
| DIMENSIONS (UNIT ONLY LENGTH/WIDTH/HEIGHT) | MM: 90.49 X 170.66 X 21.43 \| INCH: 3.56 X 6.72 X .84 |
| DIMENSIONS (PACKAGED LENGTH/WIDTH/HEIGHT) | MM: 137.32 X 195.26 X 73.03 \| INCH: 5.41 X 7.69 X 2.88 |
| WEIGHT (UNIT) | 0.86 LBS (0.39 KG) |
| WEIGHT (PACKAGED) | 1.41 LBS (0.64 KG) |
| REGULATORY | CE/FCC |
| PRODUCT WARRANTY | 10 YEARS |

*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE

## KEY FEATURES

- **8K, 48Gbps Support (FRL 6):** High bandwidth signaling supplies plenty of headroom for current sources and is fully prepared to handle 8K signals from any device using the AC-AVDM-X as a bridge.
- **EDID Management and EDID Blend:** 16 different EDID settings, including User Copy to retrieve the EDID from the connected display, enables systems with mixed era technologies to display the same content wherever desired. EDID Blend customization mixes audio and video EDIDs from two different signals for full flexibility and system compatibility.
- **Full HDR Support:** As HDR content evolves with dynamic metadata to enhance storytelling, AVPro Edge 8K devices ensure full fidelity passthrough of advanced HDR formats—including HDR10+, HLG, Dolby Vision, and IMAX Enhanced.
- **Dante / AES67 Networked Audio Output:** Audio is distributed over standard Ethernet with no dedicated audio cable runs, and any Dante device on the network receives the downmix instantly.
- **High Frame Rate Compatibility:** The AC-AVDM-X supports 120fps with 4K or 1080p signals.
- **Audio Downmixing:** There is no need to set your source to 2-channel. Converting audio to 2-channel allows you to deliver Dolby Atmos sound to a home theater and 2-channel audio to a bedroom simultaneously.
- **Additional HDMI 2.1 Features:** The AC-AVDM-X embraces key HDMI 2.1 features—Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM), Quick Media Switching (QMS), and Quick Frame Transport (QFT).

