WWW.AVPROEDGE.COM
INFO@AVPROEDGE.COM
877-886-5112 OR +1 605 274 6055

8k HDMI Down Scaler, EDID Manager & Audio De-Embedder

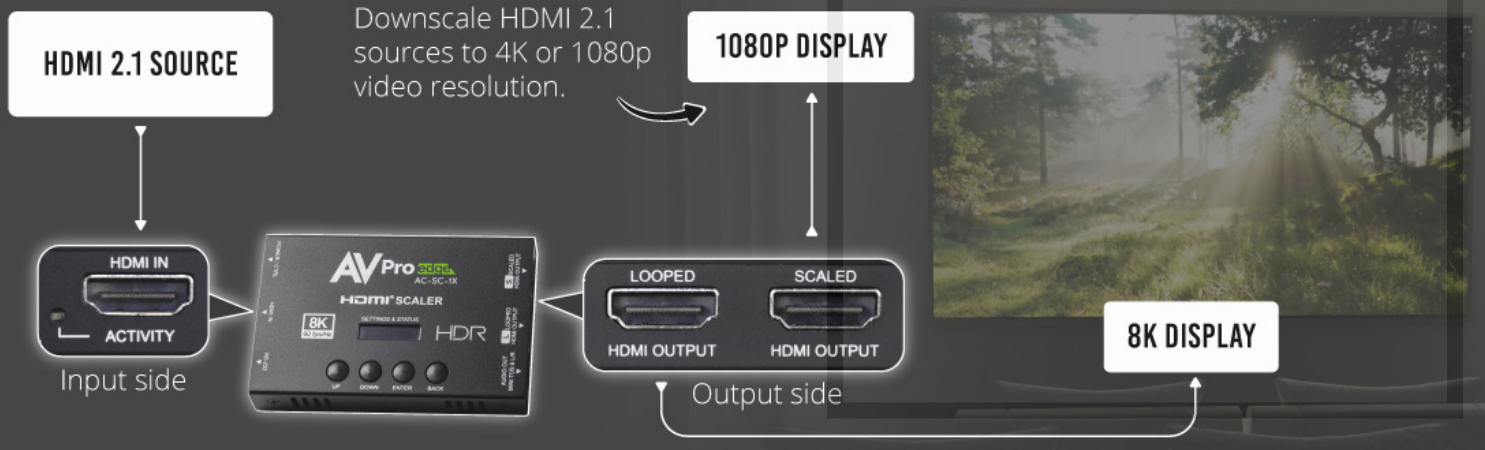
AC-SC-1X

AC-SC1-X is engineered to process 40 Gbps high-speed HDMI signaling, allowing integrators to reduce 8K signals to 4K or even to 1080p where required. Scaling is but only one of the arrows in the AC-SC1-X quiver. Dual HDMI outputs, audio de-embedding, EDID management, and support for a suite of features introduced into the HDMI 2.1 specification provide the unique architecture for a product answering the demands from today's AV signals.

AV Pro edge AC-SC-1X

CONNECTION DIAGRAM

HDMI



PRODUCT SPECIFICATIONS

VIDEO:	
VIDEO RESOLUTIONS	UP TO 8K 60HZ 4:2:0/8K 30HZ 4:4:4/4K 120HZ
HDR FORMATS/RESOLUTIONS	420, 422, 444 (10 AND 12 DEEP COLOR) HDR10, HDR10+, DOLBY VISION, HLG
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 (1080P) UP TO 12 BIT (4K)
SCALING (RESOLUTION, OUTPUT 2 ONLY)	8K TO 4K OR 8K TO 2K (1080P)
AUDIO:	
AUDIO FORMATS SUPPORTED HDMI	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
AUDIO FORMATS SUPPORTED EXTRACTED (DIGITAL TOSLINK)	LPCM UP TO 5.1 96KHZ 24 BIT, DOLBY DIGITAL 5.1, DTS HIRES AUDIO
AUDIO FORMATS SUPPORTED EXTRACTED (2 CH PORT)	PCM 2 CH
DISTANCE:	
HDMI IN/OUT (48GBPS)	UP TO 4 METERS (USING BULLET TRAIN 48GBPS HDMI)
HDMI IN/OUT (W/ AOC CABLE) (48GBPS)	UP TO 100 METERS (USING BULLET TRAIN 48GBPS AOC)
OTHER:	
BANDWIDTH	40 GBPS (FRL 5)
HDCP	HDCP 2.3 AND EARLIER
PORTS:	
HDMI	TYPE A
AUDIO (EXTRACTED ANALOG)	3.5 MM
AUDIO (EXTRACTED DIGITAL)	OPTICAL TOSLINK - MINI TOSLINK ADAPTOR INCLUDED
FIRMWARE/CONTROL	USB-C AND RS232 (3 PIN TERMINAL BLOCK)
POWER	USB-C
ENVIRONMENTAL:	
OPERATING TEMPRATURE	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)	2.5 WATTS MAX
POWER SUPPLY	INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 5V 1A
DIMENSIONS:	
DIMENSIONS (UNIT ONLY LENGTH/WIDTH/HEIGHT)	MM: 64.88 X 100.1 X 16.1 INCH: 2.55 X 3.94 X 0.63
DIMENSIONS (PACKAGED LENGTH/WIDTH/HEIGHT) (KIT)	MM: 136.5 X 155.5 X 88.9 INCH: 5.375 X 6.125 X 3.5
WEIGHT (UNIT)	0.32 LBS (0.15 KG)
WEIGHT (PACKAGED)	0.73 LBS (0.33 KG)

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

KEY FEATURES

- **8K, 40Gbps Support (FRL 5):** High bandwidth signaling supplies plenty of headroom for current sources and is fully prepared to handle 8K signals from any devices using the AC-SC1-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.
- **Audio Extraction:** Through the Digital Toslink output, 7CH PCM, Dolby Digital and Dolby Digital +, and DTS can be extracted and sent to an alternate location.
- **Ultra-Low-Profile Design:** In the rack or nestled behind a display, the compact form factor of the AC-SC1-X allows for an easy fit where required.
- **Full HDR Support:** As Hollywood becomes more adept at using HDR to augment storytelling, dynamic metadata in HDR content is pushing the color boundaries for compatible displays. AVPro Edge 8K devices repeat and passthrough HDR content retaining 100% of the fidelity in the signal. HDR, HDR10+, HLG, Dolby Vision and IMAX Enhanced are no challenge for AVPro Edge image-handling circuitry, delivering full color volume and accurate tone mapping metadata to connected displays.
- **High Frame Rate compatibility:** The AC-SC-1X supports 120fps with 4K or 1080p signals.
- **Additional HDMI 2.1a Features:** Variable Refresh Rate (VRR), Auto Low Latency Mode (ALLM) Quick Media Switching (QMS), Quick Frame Transport (QFT) Enhanced Audio Return Channel (eARC) and Source Based Tone Mapping (SBTM) are supported by the AC-SC1-X. Display Stream Compression 1.2, another feature in HDMI 2.1a is not supported, as AVPro Edge uses our proprietary Invisible Compression Technology (ICT) which provides for signal transport and processing with minimal, lossless compression and hyper-precise image fidelity.