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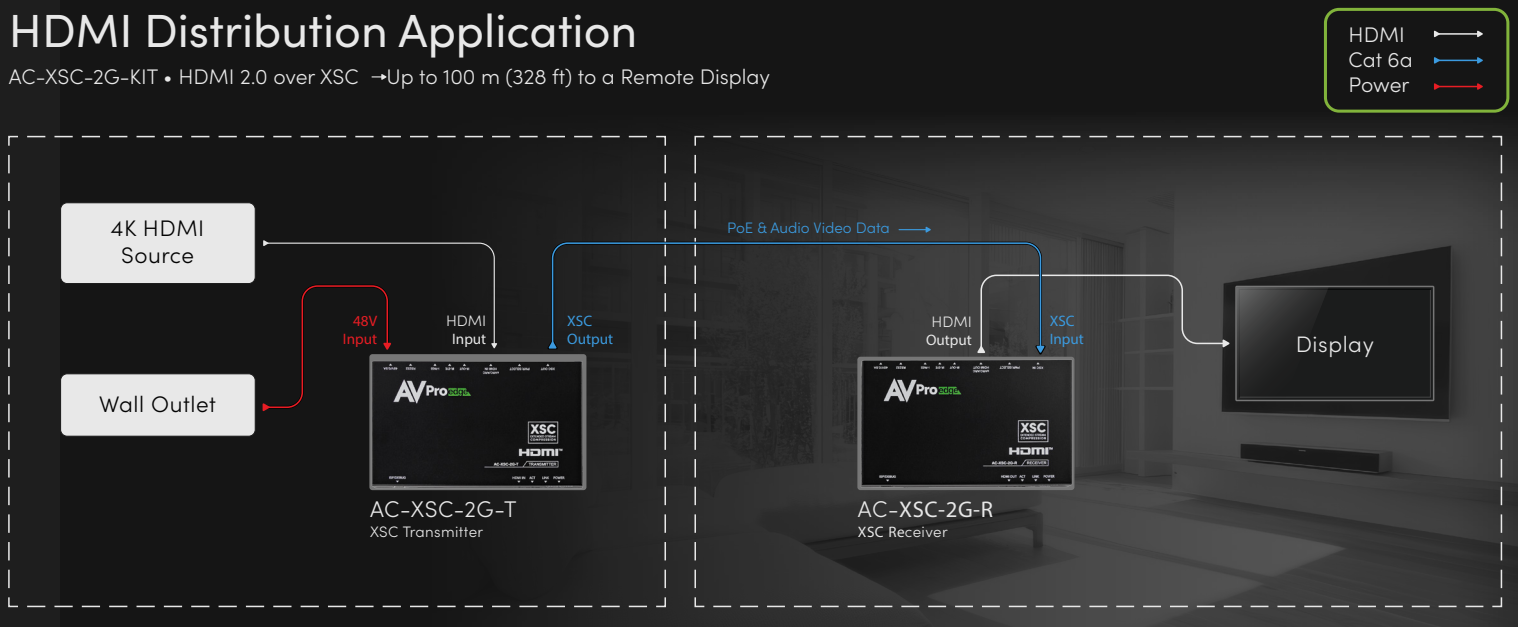
XSC 18Gbps HDMI™ 2.0 Extender Kit

AC-XSC-2G-KIT

The AC-XSC-2G-KIT is the first product in AVPro Edge's new XSC (Extended Stream Compression) extender line, a proprietary signal extension platform engineered to deliver HDBaseT-class performance at a significantly lower price point. The kit extends full 18Gbps HDMI 2.0 signals up to 100 meters (328 feet) over a single CAT6a cable using lossless compression and a proprietary 2.5G PHY. The 100-meter specification has been validated under real-world conditions including suboptimal cabling and EMI-heavy environments, reflecting AVPro Edge's commitment to reliability in the field rather than ideal-lab maximums. It supports 4K 60Hz 4:4:4, all major HDR formats (Dolby Vision, HDR10, HDR10+, HLG), and the full range of professional audio including Dolby Atmos and DTS:X, with zero compromise to signal quality.

HDMI Distribution Application

AC-XSC-2G-KIT • HDMI 2.0 over XSC →Up to 100 m (328 ft) to a Remote Display



PRODUCT SPECIFICATIONS

VIDEO:	
VIDEO RESOLUTIONS	UP TO 4K 60HZ 4:4:4
HDR FORMATS/RESOLUTIONS	HDR10, HDR10+, DOLBY VISION, AND 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 (1080) UP TO 12 BIT (4K)
HDCP	HDCP 2.3 AND EARLIER
AUDIO:	
AUDIO FORMATS SUPPORTED HDMI	LPCM 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
ARC / EARC:	
FORMATS SUPPORTED HDMI ARC / EARC OUT	LPCM 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
DISTANCE:	
XSC DISTANCE	100 METERS (330 FEET) (CAT 6A)
HDMI LEAD IN / OUT (4K60 4:4:4)	UP TO 50 FEET (USING BULLET TRAIN HDMI)
HDMI LEAD IN/OUT (W/ AOC CABLE) (4K60 4:4:4)	UP TO 130 FEET (USING BULLET TRAIN AOC)
PORTS:	
HDMI (TX & RX)	TYPE A
XSC (TX & RX)	RJ45 W/ POE
IR TX (TX & RX)	3.5MM MONO (2 CONDUCTOR)
IR RX (TX & RX)	3.5MM STEREO (3 CONDUCTOR)
RS232 (TX & RX)	3 PIN TERMINAL BLOCK
POWER (TX & RX)	2 PIN TERMINAL BLOCK
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)	12 WATTS MAX
POWER SUPPLY	INPUT: AC 100-240V ~ 50/60HZ OUTPUT: DC 48V 0.5A
DIMENSIONS:	
DIMENSIONS (SINGLE UNIT ONLY WIDTH/DEPTH/HEIGHT)	MM: 158.75 × 104 × 12.7 IN.: 6.25 × 4.1 × 0.5
DIMENSIONS (KIT PACKAGED WIDTH/DEPTH/HEIGHT)	MM: 192.09 × 136.53 × 71.44 IN. 7.56 × 5.38 × 2.81
WEIGHT (SINGLE UNIT)	0.68 LBS (0.31 KG)
WEIGHT (KIT PACKAGED)	2.33 LBS (1.06 KG)
*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE	

KEY FEATURES

- 100M (330 ft) 18 Gbps HDMI 2.0 over CAT6a with AVPro Edge XSC
- 4K 60Hz 4:4:4 with Dolby Vision, HDR10, HDR10+ and HLG
- eARC/ARC audio return, plus RS232, IR and CEC over one cable
- PoE/PoC powering for simplified installation

KEY BENEFITS

XSC (EXTENDED STREAM COMPRESSION): Enables lossless 18Gbps HDMI transmission over 2.5G PHY, validated for reliable performance up to 100m on standard CAT6a cabling.

eARC/ARC AUDIO RETURN: Supports bidirectional audio return over the same CAT6a link used for the HDMI signal, eliminating the need for a separate audio return cable.

4K 60Hz 4:4:4 WITH FULL HDR SUPPORT: Passes 4K video at 60Hz in full 4:4:4 chroma sampling, with native support for Dolby Vision, HDR10, HDR10+, and HLG.

COMPREHENSIVE AUDIO PASSTHROUGH: Passes all professional audio formats through unmodified, preserving original bitstream and metadata integrity.

RS232/IR/CEC PASSTHROUGH: Carries RS232, IR, and CEC control signals over the same CAT6a cable, enabling full control system integration without additional wiring.

PoE/PoC POWERING: Receiver unit can be powered via PoE from a network switch or PoC directly from the transmitter, reducing the need for local power supplies.

IN THE BOX

- AC-XSC-2G-T (Transmitter)
- AC-XSC-2G-R (Receiver)
- 48V Power Supply
- 1 x Stereo IR Eye
- 1 x Mono IR Emitter
- 2 x 3-Pin Terminal Block Connector
- 4 x Mounting Brackets
- 8 x Mounting Bracket Screws



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