



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



40Gbps Fiber Optic Extender AC-EXO-X-KIT

Designed around an AVPro Edge perfectionist-engineered HDMI 2.1 fiber interface module, the AC-EXO-KIT features a hyper-precise, beam-focusing lens assembly which assists in preventing refraction and downline light scatter. A custom-crafted AVPro Edge Link Training algorithm, incorporating forward error correction analysis, monitors Fixed Rate Link status to maintain original signal bandwidth and serves to restrain Link Training bandwidth reductions. Every aspect of image fidelity, faithful to the original source material, is retained unaltered. Traditional AVPro Edge extender features such as comprehensive EDID management, Dolby Vision, HDR10, HDR10+ and HLG support plus RS-232 / IR bi-directional pass-through are included. The AC-EXO-Kit includes dual-HDMI outputs, with HDMI Output 2 performing downscaling including auto-sensing.



HOME APPLICATION DIAGRAM

HDMI
FIBER

RACK ROOM

LIVING ROOM



PRODUCT SPECIFICATIONS

VIDEO:	
VIDEO RESOLUTIONS	UP TO 8K 60HZ 4:2:0 / 8K 30HZ 4:4:4 / 4K 120HZ
HDR FORMATS/RESOLUTIONS	4:2:0, 4:2:2, 4:4:4 (10- AND 12-BIT 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, 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
FIBER:	
TYPE	MULTIMODE OM3
CONNECTOR	SIMPLEX LC (LUCENT CONNECTOR)
RECOMMENDED FIBER	OM3 CLEERLINE SFF™ FIBER
DISTANCE:	
OM2	UP TO 40M
OM3	UP TO 200M
OM4	UP TO 300M
HDMI IN/OUT (40GBPS)	UP TO 4M (USING BULLET TRAIN © ULTRA HIGH SPEED HDMI CABLE)
HDMI IN/OUT WITH AOC CABLE (40GBPS)	UP TO 100M (USING BULLET TRAIN © ULTRA HIGH SPEED HDMI CABLE)
OTHER:	
BANDWIDTH	40GBPS (FRL5)
HDCP	HDCP 2.3 AND EARLIER
PORTS:	
HDMI (TX AND RX)	TYPE A
IR TRANSMIT (TX AND RX)	3.5MM MONO JACK (TS)
IR RECEIVE (TX AND RX)	3.5MM STEREO JACK (TRS)
RS-232 CONTROL (TX AND RX)	3-PIN TERMINAL BLOCK
POWER (TX AND RX)	2-PIN TERMINAL BLOCK, USB-C
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)	2.5 WATTS MAXIMUM
POWER SUPPLY	INPUT: 48V 0.5A OUTPUT: DC 5V 1A
DIMENSIONS:	
HEIGHT X WIDTH X DEPTH (STANDALONE UNIT, TX AND RX ARE SAME)	MILLIMETERS: 80.6 X 140 X 15.4 INCHES: 3 X 5.5 X 0.6
HEIGHT X WIDTH X DEPTH (PACKAGED UNIT, KIT)	MILLIMETERS: 135 X 194 X 84 INCHES: 5.3 X 7.6 X 3.3
WEIGHT (STANDALONE UNIT, TX OR RX EACH ALONE)	0.55 LBS (0.25 KG)
WEIGHT (PACKAGED UNIT)	2.5 LBS (1.13 KG)
*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. MASS & DIMENSIONS ARE APPROXIMATE	

FULL FEATURE SET

- Noise-immune, long distance transmission over multi-mode fiber
- May be used with all classifications of multi-mode fiber. Total distance varies per classification. Using a 40Gbps, 8K/60Hz 4:2:0 signal, the following distances have been confirmed: OM2 / 40 meters, OM3 / 200 meters, OM4 / 300 meters.
- Proprietary hyper-precise, beam-focusing lens assembly limits transmission refraction and downline light scatter with minimal attenuation
- An AVPro Edge custom algorithm monitors Fixed Rate Link status and restrains Link Training bandwidth reductions
- Fiber delivers a pristine image down to the last molecule of detail, an essential requirement for transporting content to 8K displays
- High Frame Rate 4K/120fps capable with 8K up to 40 Gbps bandwidth (8K/60, 4:2:0)
- Receiver features dual-HDMI outputs with an always-scaled, secondary output (selectable as 8K to 4K, 8K to 1080p, or 4K to 1080p)
- HDMI 2.1 feature-rich, including Auto Low Latency, Variable Refresh Rate, HDR10 and Dynamic HDR formats including Dolby Vision, HDR10+ and HLG, Quick Frame Transport and Source Based Tone Mapping. 8K/60 4:2:0, High Frame Rate 4K/120fps capable.
- Comprehensive EDID management for mixed-resolution NextGen systems
- Configurable, bidirectional IR & RS-232 control signal management consolidates wiring to a solo pull, eliminating supplemental devices
- Supports HDR10, plus Dynamic HDR formats including Dolby Vision, HDR10+ and HLG with imperceptible, near-zero latency
- Latency is less than 8 microseconds, measurable but visually imperceptible.
- HDCP 2.3 (and all earlier versions supported)

