



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



48Gbps Fiber Optic Extender

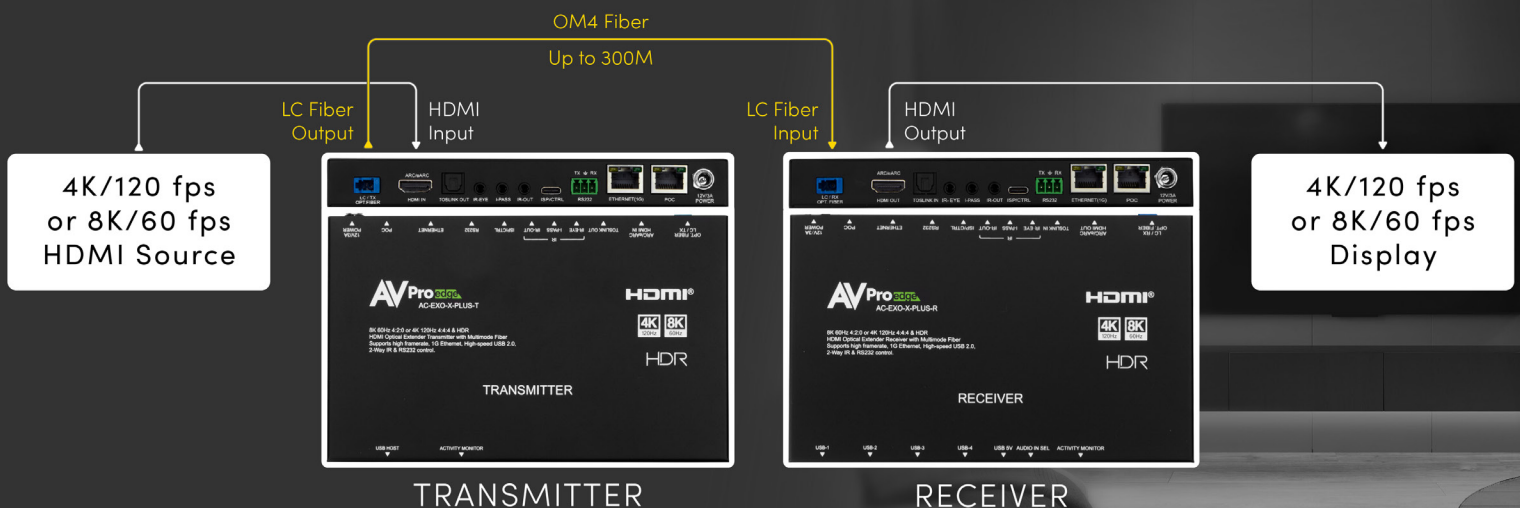
AC-EXO-X-PLUS-KIT

The AC-EXO-X-PLUS-KIT provides Full 8K Ultra HD 48 Gbps uncompressed HDMI 2.1 near-zero latency signal extension, up to 300 meters, over OM4 multi-mode fiber. It introduces advanced connectivity features unique to fiber transport, such as USB 2.0 KVM, audio extraction via HDMI ARC/eARC, and the versatile functionality of a 1 Gbps Ethernet hub, establishing the AC-EXO-X-PLUS-KIT as the ultimate high-performance 8K HDMI fiber transmission kit in the Pro AV space. Multimode OM4 fiber (minimum) consolidates audio, video, control, and Ethernet cabling to a solitary pull when using the AVPro Edge AC-EXO-X-PLUS-KIT, offering higher bandwidth, faster speeds, longer transmission distances, improved security, and resistance to electromagnetic interference compared to traditional copper cabling, making installation application opportunities across each individualized commercial market segment unlimited.



AC-EXO-X-PLUS-KIT Connection Diagram

Extend 4K and 8K HDMI up to 300 Meters



PRODUCT SPECIFICATIONS

VIDEO		
Video Resolutions	Up to 8K/60 Hz 4:4:4, 8K/30 Hz 4:4:4, 4K/120 Hz	
HDR Formats	Dolby Vision, HDR10, HDR10+, HLG	
Color Space	YUV (Component), RGB (CSC: ITU-R BT.601, ITU-R BT.709, ITU-R BT.2020, DCI-P3 D65)	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Bit Depth	Up to 16-bit	
Downscaling	8K / 4K to 1080p	
AUDIO		
Audio Formats Supported (HDMI)	PCM 2.0-Ch, LPCM 5.1 & 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, DTS:X	
Audio Formats Supported Extracted (TOSLINK)	LPCM up to 5.1, 96 kHz 24-bit, Dolby Digital 5.1, DTS High Resolution Audio	
ARC / eARC		
Formats Supported (HDMI)	PCM 2.0-Ch, LPCM 5.1 & 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio, DTS:X	
Formats Supported (TOSLINK)	PCM 2.0-Ch, LPCM 5.1 & 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD	
USB Extension		
Version	USB 2.0	
Ports	(1) USB Type-C (Transmitter) (4) USB Type-A (Receiver)	
ETHERNET EXTENSION		
Bandwidth	1 Gbps	
Port	RJ45	
FIBER		
Type	Multimode OM3	
Connector	Simplex LC (Lucent Connector)	
Recommended Fiber	OM3 Clearline SFF™ Fiber	
DISTANCE		
OM2	Up to 40 m	
OM3	Up to 200 m	
OM4	Up to 300 m	
HDMI In/Out (4K/60 Hz 4:4:4)	Up to 50 ft. (using Bullet Train HDMI)	
HDMI In/Out (w/ AOC Cable) (4K/60 Hz 4:4:4)	Up to 130 ft. (using Bullet Train AOC)	
OTHER		
Bandwidth	48 Gbps (FRL6)	
HDCP	HDCP 2.3 and earlier	
PORTS		
HDMI	HDMI Type A 19-pin, female	
Audio (Extracted Digital)	TOSLINK	
USB	(1) USB Type-C (Transmitter) (4) USB Type-A (Receiver)	
Ethernet	RJ45	
IR TX	3.5 mm Mono (2-Conductor)	
IR RX	3.5 mm Stereo (3-Conductor)	
RS-232	3-Pin Euroblock	
Firmware	USB Type-C	
POC	RJ45	
Power In	Barrel 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% to 90% RH (No Condensation)	
POWER		
Power Consumption (Total)	12 W Maximum	
Power Supply	Input: 12 VDC/3 A Power Supply; Output: 48 VDC, 0.5 A	
PHYSICAL / DIMENSIONS		
Mounting	Mounting brackets (screws included)	
Dimensions (Unit Length/Width/Height)	mm: 109.474 x 179.324 x 22.098 inches: 4.31 x 7.06 x .87	
Dimensions (Packaged Length/Width/Height)	mm: 149.225 x 234.95 x 98.425 inches: 5.875 x 9.25 x 3.875	
Weight (Unit)	1.26 lbs. (0.568 kg)	
Weight (Packaged)	3.9 lbs. (1.768 kg)	
Regulatory	CE/FCC	
Product Warranty	10 Years	

FULL FEATURE SET

- **Full 8K Ultra HD Uncompressed 48 Gbps with Dolby Vision, HDR10, HDR10+, and HLG Support** - The AC-EXO-X-KIT is fully compatible with all specified ITU 8K timings and bit rates. Its capabilities are future-forward through the complete evolution of the 8K format, making it a unique, invest-once product.
- **Near-Zero Latency** - Latency is less than 8 microseconds, clinically measurable but visually imperceptible.
- **Extend USB 2.0/480 Mbps and 1 Gbps Ethernet** - USB 2.0 extends KVM functionality for PCs or peripheral devices like mouse/keyboard. A 1 Gbps ethernet hub port extends LAN connectivity to a local display or other internet-connected devices.
- **eARC/ARC support** - Arc simplified audio connections. However, high-bitrate audio formats like Dolby Atmos are transmitted from TV to sound systems via eARC, with lip-sync correction and improved CEC support.
- **IR & RS-232 Control** - Configurable, bi-directional IR and RS-232 control.
- **4K/144 Hz Support** - Match next-gen display performance with 4K/144 Hz extended frame rate support for ultra-sharp visuals with impressively smooth motion, enhanced gaming performance, and general computing with reduced motion blur and increased responsiveness.
- **Variable Refresh Rate** - VRR synchronizes display refresh rates with GPU frame rates, reducing lag, judder, and frame tearing for smoother gameplay and more fluid video output.
- **Fiber Signal Transmission** - In commercial environments where airborne digital "hash" swirls around unabated, fiber optic connectivity provides immunity from frequency-related interference to preserve image fidelity.
- **EDID management** - Resolve EDID issues with preloaded and custom options. An EDID Copy function allows for acute copying and saving of known, working EDIDs for stable kit operation and HDCP repeatability.
- **Downscaling Capable:** Precision downscaling circuitry is incorporated into the AC-EXO-X-PLUS-KIT to scale 8K & 4K, including HDR to 1080p, where a legacy display device remains in use.
- **Test Pattern Generation** - The Transmitter can generate a test pattern to verify to aid with fiber verification, connected device configuration settings, or source viability.
- **PoC Power** - Onboard output power for downstream devices (specifically RX unit)