



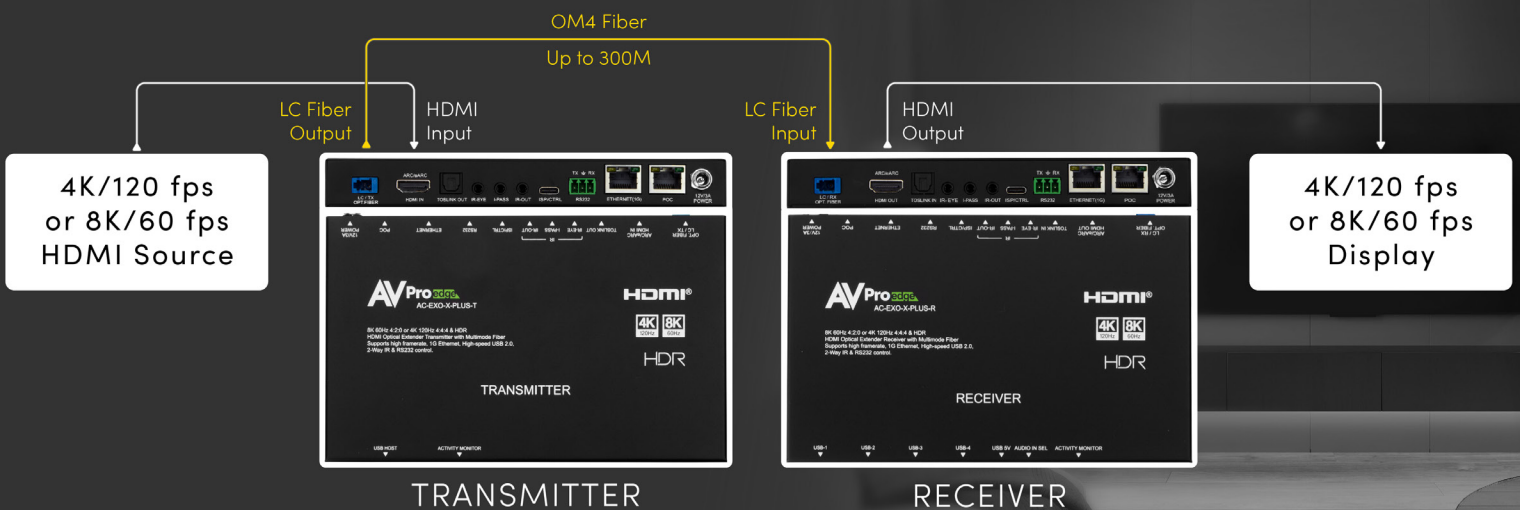
48Gbps Fiber Optic Extender

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



4K/120 fps
or 8K/60 fps
HDMI Source



TRANSMITTER



RECEIVER

4K/120 fps
or 8K/60 fps
Display

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/3a Power Supply; Output: 12v 3a
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

*Specifications subject to change without notice. Mass & dimensions are approximate

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)