



Introduction

The Atlona **AT-OME-EX-KIT-LT** is an HDBaseT extender for video up to 4K/60 4:2:0, plus embedded audio, control, and USB over distances up to 130 feet (40 meters) for 4K/UHD, and up to 230 feet (70 meters) for 1080p/60 video. Part of the Omega™ Series of integration products for modern AV communications and collaboration, the OME-EX-KIT-LT is HDCP 2.2 compliant and extends IR and RS-232 control signals. The integrated USB extension addresses the challenge of connecting between USB devices at remote locations, and is ideal for software video conferencing and touch or interactive displays. The transmitter includes a USB 2.0 host interface for a PC, plus two peripheral devices such as a speakerphone, microphone, or keyboard and mouse. The receiver provides two USB interfaces for devices such as a camera, soundbar, or display⁽¹⁾.

Applications

- Video conferencing**
 The OME-EX-KIT-LT is ideal for soft codec and web-based conferencing applications, with the ability to integrate with a PC and speakerphone or microphone at a meeting table, and a camera or soundbar at the wall-mounted display.
- Interactive displays**
 The OME-EX-KIT-LT can also provide AV and USB extension for a touch-enabled display, allowing remote PC control at a meeting table or other location.

Key Features

Video, audio, power, and data over category cable utilizing HDBaseT technology

- Extends up to 230 feet (70 meters) @ 1080p, or up to 130 feet (40 meters) @ 4K/UHD using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

USB 2.0 interfacing and extension up to 230 feet (70 meters)

- Transmitter features USB type B interface for connection to a host PC, plus two USB type A ports for peripheral devices such as a microphone or speakerphone. Receiver features two USB type A ports for peripheral devices such as a camera or display.
- Provides an ideal USB integration solution for software video conferencing and other applications.

4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling

- Compatible with sources up to 4K/60 4:2:0 and 4K/30 4:4:4.
- Supports HDMI data rates up to 10 Gbps from PCs, media players, and Ultra HD Blu-ray players.

HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection.
- Allows protected content stream to pass between authenticated devices.

Transmitter powered by receiver via PoE (Power over Ethernet)

- Industry standard IEEE 802.3af PoE for transmitter is supplied by receiver over HDBaseT.
- Allows convenient transmitter installation at a table or other remote location, without the need for local AC power.

HDBaseT link status testing

- Free software utility available for testing integrity of the HDBaseT cable link between the transmitter and the receiver. Test button and status LED also available on the transmitter.
- Provides real-time link status, with detailed HDBaseT and HDMI signal information. Quick, easy verification or troubleshooting of RJ-45 termination or twisted pair cable quality.

Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in residential and commercial systems.
- Specify, purchase, and install with confidence.

Specifications

Video	
HDMI Specification	HDMI 2.0b, HDCP 2.2
TMDS Clock	300 MHz
UHD/HD/SD	4096×2160 (DCI) @ 60 ⁽²⁾ /30/24 Hz 3840×2160 (UHD) @ 60 ⁽²⁾ /50/24/25/30 Hz 1920×1080p @ 23.98/24/25/29.97/30/50/59.94/60 Hz
VESA ⁽³⁾	2560×2048 2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1600×900 1440×900 1400×1050
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit

Audio	
Pass-through	LPCM 2.0 LPCM 5.1 LPCM 7.1
	Dolby® Digital Dolby Digital Plus Dolby TrueHD Dolby Atmos®
	DTS® DTS-HD Master Audio™ DTS:X
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz
Bit Depth	Up to 24-bit

USB	
Signal	2.0
Maximum Data Rate	120 Mbps

Control	
CEC	Pass-through
RS-232	Pass-through from control system to sink device; supports baud rates from 2400 to 115200
IR	Pass-through from control system to sink device

Connectors	
HDMI IN	1 - Type A, 19-pin female (transmitter)
HDMI OUT	1 - Type A, 19-pin female (receiver)
FW	1 - micro-USB (transmitter / receiver)
HDBaseT OUT	1 - RJ45 (transmitter)
HDBaseT IN	1 - RJ45 (receiver)
HOST	1 - USB Type-B (transmitter)
DEVICE	2 - USB Type-A (transmitter / receiver)
RS-232 / IR	1 - captive screw, 4-pin (transmitter / receiver)
DC 48V	1 - 3-pin DIN (receiver)

Indicators and Controls	
PWR LED indicator	1 - LED, green
LINK LED indicator	1 - LED, yellow
TEST LED indicator	1 - LED, yellow
TEST button	1 - momentary, tact-type

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI IN/OUT	15	5	30	10
CAT5e/6	115	35	200	60
CAT6a/7	130	40	230	70

Power	
Consumption	30.5 W (TX/RX), 13.5 W (TX), 17.0 W (RX)
USB Power	2.5 W per USB device interface
External Power Supply (Receiver)	Input: 100 - 240 V AC, 50/60 Hz Output: 48 V, 0.83 A DC
Safety	CE, FCC, cULus

Environmental	
Operating Temperature	0° to 122° F 0° - 50° C
Storage Temperature	-4° to +140° F -20° to +60° C
Operating Humidity (RH)	+20 to +90%, non-condensing

Chassis	
Dimensions (H x W x D)	TX: 1.02 in x 4.29 in x 5.00 in 26 mm x 109 mm x 127 mm RX: 1.02 in x 4.29 in x 5.00 in 26 mm x 109 mm x 127 mm
Weight	TX: 0.88 lb, 400 g RX: 0.88 lb, 400 g
Safety	CE, RoHS, FCC

Footnotes

- (1) Both the AT-OME-EX-TX-LT and AT-OME-EX-RX-LT and not compatible with the AT-UHD-HDVS-300 system for extending USB.
- (2) Only supports 4:2:0.
- (3) All VESA resolutions are 60 Hz.

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