





#### Introduction

The Atlona **AT-OME-EX-WP-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. The transmitter features a US one-gang, wallplate form factor, and includes interchangeable black and white wallplates and faceplates. Part of the Omega™ Series of integration products for modern AV communications and collaboration, the OME-EX-WP-KIT-LT is HDCP 2.2 compliant and extends 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 a peripheral device such as a speakerphone, microphone, or keyboard and mouse. The receiver provides two USB interfaces for devices such as a camera, soundbar, or display.

### **Applications**

#### Video conferencing

The OME-EX-WP-KIT-LT is ideal for soft codec and web-based conferencing applications, with the ability to integrate with a PC and speakerphone or microphone near presenters, and a camera or soundbar at the wall-mounted display.

#### Interactive displays

The OME-EX-WP-KIT-LT can provide AV and USB extension for a touch-enabled display, allowing remote PC control at a wall, lectern, or other location.

#### Classrooms

This extender kit is also ideal for classroom applications such as distance learning, with the wallplate transmitter installed on a desk or lectern for easy instructor access.



### **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)(1)

- Transmitter features USB type B interface for connection to a host PC, plus a USB type A port for a peripheral device 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.

#### US one-gang enclosure for wallplate openings -interchangeable black or white trim kits

- Allows inconspicuous installation on a wall, in furniture, or in a table or floor box. Includes black and white wallplates and faceplates.
- Meets end user requirements for conveniently accessible yet discreet AV connectivity.

#### 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 over HDBaseT

- 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.
- Provides real-time link status, plus 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.



### AT-OME-EX-TX-WP-LT Specifications

Video		
Signal	HDMI	
Copy Protection	HDCP 2.2	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160@60 <sup>(2)</sup> /50/30/25/24Hz 3840×2160@60 <sup>(2)</sup> /50/30/25/24Hz 1080p@60/59.9/50/30/29.97/25/ 24/23.98Hz 1080i@30/29.97/25Hz	720p@60/59.94/50Hz 576p@50Hz 576i@25Hz 480p@60/59.96Hz 480i@30Hz
VESA All resolutions are 60Hz	2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1440×900 1400×1050 1280×1024	1280×800 1366×768 1360×768 1152×864 1024×768 800×600 640×480
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	

Audio			
HDMI	PCM 2.0 LPCM 5.1 LPCM 7.1	Dolby <sup>®</sup> Digital Dolby Digital Plus <sup>™</sup> Dolby TrueHD Dolby Atmos <sup>®</sup>	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
Bit Depth	up to 24-bit		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

USB	
Signal <sup>(1)</sup>	2.0
Maximum Data Rate	120 Mbps

RS-232			
Port	1 x 3-pin captive screw (RX, TX, GND only)		
Use	Pass-through from control system to sink device		
Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200		
Data flow	Bidirectional		

CEC	
Port	1 x HDMI, Type A, 19-pin female
Triggering	RS-232



Resolution / Distance	4K/UHD - Feet / Me	ters	1080p - Feet / Meter	rs .
HDMI IN/OUT	15	5	30	10
CAT5e	115	35	200	60
CAT6/6a/7	130	40	230	70

Buttons and Indicators	
Indicators:	
POWER	1 x LED, green
LINK	1 x LED, yellow

Connectors	
HDMI	1 - Type A, 19-pin female
HDBaseT OUT	1 - RJ45
HOST	1 - USB Type-B
DEVICE	1 - USB Type-A
RS-232	1 - captive screw, 3-pin

Environmental	
Operating Temperature	+32° to +122° F 0° to +50° C
Storage Temperature	-4° to +140° F -20° to +60° C
Operating Humidity (RH)	+20 to +90%, non-condensing

Power		
Consumption	11.18 W (includes 2.5 W for USB, powered by RX)	
USB Power	2.5 W USB device interface	

Dimensions	
Unit (H x W x D)	4.07 in x 1.80 in x 2.63 in 103.50 mm x 45.80 mm x 67.00 mm

Weight	Pounds	Kilograms
Device	0.40	0.18

Certification	
Device	CE, RoHS, FCC



### **AT-OME-EX-RX-LT Specifications**

Video		
Signal	HDMI	
Copy Protection	HDCP 2.2	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160@60 <sup>(2)</sup> /50/30/25/24Hz 3840×2160@60 <sup>(2)</sup> /50/30/25/24Hz 1080p@60/59.9/50/30/29.97/25/ 24/23.98Hz 1080i@30/29.97/25Hz	720p@60/59.94/50Hz 576p@50Hz 576i@25Hz 480p@60/59.96Hz 480i@30Hz
VESA All resolutions are 60Hz	2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1440×900 1400×1050 1280×1024	1280×800 1366×768 1360×768 1152×864 1024×768 800×600 640×480
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	
Color Depth	8-bit, 10-bit, 12-bit	
Audio		

Audio			
HDMI	PCM 2.0 LPCM 5.1 LPCM 7.1	Dolby <sup>®</sup> Digital Dolby Digital Plus <sup>™</sup> Dolby TrueHD Dolby Atmos <sup>®</sup>	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
Bit Depth	up to 24-bit		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 8	38.2 kHz, 96 kHz, 176.4 kHz,	192 kHz

USB	
Signal	2.0
Maximum Data Rate	120 Mbps

RS-232	
Port	1 x 4-pin captive screw (RX, TX, GND only)
Use	Pass-through from control system to sink device
Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200
Data flow	Bidirectional

IR	
Port	1 x 4-pin captive screw (TX and GND only)
Use	Pass-through from control system to sink device
Frequency Range	30 kHz to 60 kHz



CEC	
Port	1 x HDMI, Type A, 19-pin female
Triggering	IP, RS-232

Resolution / Distance 4K/UHD - Feet / Meters		4K/UHD - Feet / Meters		rs
HDMI IN/OUT	15	5	30	10
CAT5e	115	35	200	60
CAT6/6a/7	130	40	230	70

Buttons and Indicators	
Indicators:	
POWER	1 x LED, green
LINK	1 x LED, green 1 x LED, yellow

Connectors	
HDMI OUT	1 - Type A, 19-pin female
FW	1 - mini-USB
HDBaseT IN	1 - RJ45
DEVICE	2 - USB Type-A
RS-232 / IR	1 - captive screw, 4-pin
DC 48V	1 - 3-pin DIN

Environmental	
Operating Temperature	+32° to +122° F 0° to +50° C
Storage Temperature	-4° to +140° F -20° to +60° C
Operating Humidity (RH)	+20 to +90%, non-condensing

Power	
Consumption	18.67 W
USB Power	2.5 W per USB device interface
External Power Supply	Input: 100 - 240 V AC, 50/60 Hz Output: 48 V, 0.83 A DC
Safety	CE, FCC, cULus

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.02 x 4.29 x 5.00	26 x 109 x 127
Power Supply (AT-PS-48083-D3)	1.42 x 1.81 x 4.41	36 x 46 x 112

Weight	Pounds	Kilograms
Device	0.89	0.41

Certification	
Device	CE, RoHS, FCC



### **Accessories**

SKU	Description
AT-LC-H2H-1M	LinkConnect HDMI to HDMI 1 Meter Cable
AT-LC-H2H-2M	LinkConnect HDMI to HDMI 2 Meter Cable
AT-LC-H2H-3M	LinkConnect HDMI to HDMI 3 Meter Cable

### **Footnotes**

- (1) Maximum 120 Mbps data rate supported over HDBaseT.
- (2) Only supports 4:2:0.



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