



## Introduction

The Atлона **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)<sup>(1)</sup>

- 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	Input - HDMI Output - HDBaseT	
Copy Protection	HDCP 2.2	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160 (DCI) @ 60 <sup>(2)</sup> /30/24 Hz 3840x2160 (UHD) @ 60 <sup>(2)</sup> /50/24/25/ 30 Hz	1920x1080p @ 23.98/24/25/29.97/ 30/50/59.94/60 Hz 1920x1080i @ 25/29.97/30 Hz, 1280x720p @ 30/50/59.94/60 Hz
VESA All resolutions are 60 Hz	2560x2048 2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1600x900 1440x900 1400x1050	1366x768 1360x768 1280x1024 1280x800 1280x768 1152x768 1024x768 800x600 640x480
VESA 21:9	2560x1080 @ 30 Hz 4:4:4 2560x1080 @ 60 Hz 4:4:4 3440x1440 @ 30 Hz 4:4:4	3440x1440 @ 50 Hz 4:4:4 3840x1600 @ 30 Hz 4:4:4
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 / HDBaseT Pass-Through Formats	PCM 2.0 LPCM 5.1 LPCM 7.1	Dolby® Digital Dolby Digital Plus™ Dolby TrueHD Dolby Atmos®	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
Bit Depth	Up to 24 bits		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

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

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

Control	
RS-232	Pass-through from control system to sink device Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200
CEC Support	Yes

Buttons and Indicators	
<b>Indicators:</b>	
PWR	1 x LED, green
LINK	1 x LED, yellow

  

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

  

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)
BTU/h	38.12
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

  

Compliance	
NDAA-899	Yes
TAA	Yes

  

Warranty	
3 years	To view the product warranty, use the following link: <a href="https://atlona.com/warranty">https://atlona.com/warranty</a>

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

Video		
Signal	Input - HDBaseT Output - HDMIT	
Copy Protection	HDCP 2.2	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160 (DCI) @ 60 <sup>(2)</sup> /30/24 Hz 3840x2160 (UHD) @ 60 <sup>(2)</sup> /50/24/25/ 30 Hz	1920x1080p @ 23.98/24/25/29.97/ 30/50/59.94/60 Hz 1920x1080i @ 25/29.97/30 Hz, 1280x720p @ 30/50/59.94/60 Hz
VESA All resolutions are 60 Hz	2560x2048 2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1600x900 1440x900 1400x1050	1366x768 1360x768 1280x1024 1280x800 1280x768 1152x768 1024x768 800x600 640x480
VESA 21:9	2560x1080 @ 30 Hz 4:4:4 2560x1080 @ 60 Hz 4:4:4 3440x1440 @ 30 Hz 4:4:4	3440x1440 @ 50 Hz 4:4:4 3840x1600 @ 30 Hz 4:4:4
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 / HDBaseT Pass-Through Formats	PCM 2.0 LPCM 5.1 LPCM 7.1	Dolby® Digital Dolby Digital Plus™ Dolby TrueHD Dolby Atmos®	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
Bit Depth	Up to 24 bits		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

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

USB	
Signal	2.0
Maximum Data Rate	120 Mbps

Control	
RS-232	Pass-through from control system to sink device Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200
IR	Pass-through from control system to sink device
CEC Support	Yes

Buttons and Indicators	
<b>Indicators:</b>	
PWR	1 x LED, green
LINK	1 x LED, yellow

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

Environmental	Fahrenheit	Celsius
Operating Temperature	0 to +122	-18 to +50
Storage Temperature	-4 to +140	-20 to +60
Operating Humidity (RH)	20% to 90%, non-condensing	

Power	
Consumption	18.67 W
BTU/h	63.66
USB Power	2.5 W per USB device interface
External Power Supply	100 - 240 V AC, 50/60 Hz Output: 48 V / 0.83 A DC

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
Power Supply	CE, FCC, cULus

Compliance	
NDAA-899	Yes
TAA	Yes

Warranty	
3 years	To view the product warranty, use the following link: <a href="https://atlon.com/warranty">https://atlon.com/warranty</a>

## 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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