





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	Input - HDMI					
Ŭ		Output - HDBaseT				
Copy Protection	HDCP 2.2	HDCP 2.2				
Pixel Clock	300 MHz	300 MHz				
UHD/HD/SD		4096×2160 (DCI) @ 60 ⁽²⁾ /30/24 Hz 1920x1080p @ 23.98/24/25/29.97/ 3840×2160 (UHD) @ 60 ⁽²⁾ /50/24/25/ 30/50/59.94/60 Hz 30 Hz 1920x1080i @ 25/29.97/30 Hz, 1280x720p @ 30/50/59.94/60 Hz).97/30 Hz,	
VESA All resolutions are 60Hz	2560×2048 2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1600×900 1440×900 1400×1050			1366×768 1360×768 1280×1024 1280×800 1280×768 1152×768 1024×768 800×600 640×480	4	
Color Space	YUV, RGB					
Chroma Subsampling	4:4:4, 4:2:2, 4:2	4:4:4, 4:2:2, 4:2:0				
Color Depth	8-bit 10-bit 12	8-bit, 10-bit, 12-bit				
Solor Dopti	0 511, 10 511, 12	-DIL				
	0 51, 10 51, 12	-DIL				
Audio		-DIL				
	PCM 2.0 LPCM 5.1 LPCM 7.1	-01	Dolby® Digit Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D		Digital Surround™ ID Master Audio™ (®
Audio HDMI / HDBaseT	PCM 2.0 LPCM 5.1	-01	Dolby Digital Dolby TrueHI	Plus™ D	DTS-ł	ID Master Audio™
Audio HDMI / HDBaseT Pass-Through Formats	PCM 2.0 LPCM 5.1 LPCM 7.1		Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D s®	DTS-H DTS:X	HD Master Audio™ (®
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits	lz, 48 kHz,	Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D s®	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH	lz, 48 kHz,	Dolby Digital Dolby TrueHI Dolby Atmos	l Plus™ D s® Hz, 176.4 kŀ	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet /	lz, 48 kHz, / Meters	Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D (® Hz, 176.4 kł 1080p - Fe	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz rs
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance HDMI IN/OUT	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet 7	lz, 48 kHz, / Meters 5	Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D s® Hz, 176.4 kF 1080p - Fe 30	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz rs 10
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance HDMI IN/OUT CAT5e	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet / 15 115	lz, 48 kHz, / Meters 5 35	Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D s® Hz, 176.4 kF 1080p - Fe 30 200	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz rs 10 60
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance HDMI IN/OUT CAT5e CAT6/6a/7	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet / 15 115	lz, 48 kHz, / Meters 5 35	Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D s® Hz, 176.4 kF 1080p - Fe 30 200	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz rs 10 60
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance HDMI IN/OUT CAT5e CAT6/6a/7 USB	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet / 15 115 130	lz, 48 kHz, / Meters 5 35	Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D s® Hz, 176.4 kF 1080p - Fe 30 200	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz rs 10 60
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance HDMI IN/OUT CAT5e CAT6/6a/7 USB Signal ⁽¹⁾ Maximum Data Rate	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet / 15 115 130 2.0	lz, 48 kHz, / Meters 5 35	Dolby Digital Dolby TrueHI Dolby Atmos	Plus™ D s® Hz, 176.4 kF 1080p - Fe 30 200	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz rs 10 60
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance HDMI IN/OUT CAT5e CAT6/6a/7 USB Signal ⁽¹⁾ Maximum Data Rate Control	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet / 15 115 130 2.0 120 Mbps	lz, 48 kHz, / Meters 5 35 40	Dolby Digital Dolby TrueHI Dolby Atmos 88.2 kHz, 96 k	Plus™ D S® Hz, 176.4 kH 1080p - Fe 30 200 230	DTS-ł DTS:> Hz, 192 kł	HD Master Audio™ (® Hz rs 10 60
Audio HDMI / HDBaseT Pass-Through Formats Bit Depth Sample Rate Resolution / Distance HDMI IN/OUT CAT5e CAT6/6a/7 USB Signal ⁽¹⁾ Maximum Data Rate	PCM 2.0 LPCM 5.1 LPCM 7.1 Up to 24 bits 32 kHz, 44.1 kH 4K/UHD - Feet / 15 115 130 2.0	lz, 48 kHz, / Meters 5 35 40	Dolby Digital Dolby TrueHI Dolby Atmos 88.2 kHz, 96 k	Plus™ D S® Hz, 176.4 kH 1080p - Fe 30 200 230	DTS-H DTS:X	HD Master Audio™ (® Hz rs 10 60 70



Buttons and Indicators			
Indicators:			
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		
Operating remperature	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, powe	ered by RX)	
USB Power	2.5 W USB device interface		
Dimensions			
	4.07 in x 1.80 in x 2.63 in		
Unit (H x W x D)	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			
Compliance	Vec		
NDAA-899	Yes		



AT-OME-EX-RX-LT Specifications

Video						
Signal	Input - HDBaseT					
	Output - HDMIT					
Copy Protection	HDCP 2.2					
Pixel Clock	300 MHz					
UHD/HD/SD	4096×2160 (DCI) @ 60 ⁽²⁾ /30/24 Hz 3840×2160 (UHD) @ 60 ⁽²⁾ /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 60Hz	2560×2048 2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1600×900 1440×900 1400×1050			1366×768 1360×768 1280×1024 1280×800 1280×768 1152×768 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 / HDBaseT Pass-Through Formats	PCM 2.0 LPCM 5.1 LPCM 7.1		Dolby® Digit Dolby Digital Dolby TrueHI Dolby Atmos	Plus™)) Digital Surround™ HD Master Audio™ (®
Bit Depth	Up to 24 bits					
Sample Rate	32 kHz, 44.1 kHz, 4	8 kHz,	88.2 kHz, 96 k	Hz, 176.4 kHz,	192 kł	Ηz
Resolution / Distance	4K/UHD - Feet / Me	ters		1080p - Feet	/ Mete	rs
HDMI IN/OUT	15	1		30	, 1110101	10
CAT5e	115	5 35		200		60
CAT6/6a/7	130	40		230		70
CATO/Od/1	150	40		230		70
USB						
Signal	2.0					
Maximum Data Rate	120 Mbps					
Control	Deep there is for a	a na ku a k		daviaa		
RS-232	Pass-through from Supported baud rat				57600	115200
IR	Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200 Pass-through from control system to sink device					
CEC Support	Yes					
	100					



Buttons and Indicators			
Indicators:			
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		
USB Power	2.5 W per USB device interface		
External Power Supply	100 - 240 V AC, 50/60 Hz		
External Power Supply	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	1.42 x 1.81 x 4.41	36 x 46 x 112	
(AT-PS-48083-D3)			
Weight	Pounds	Kilograms	
Device	Pounds 0.89	Kilograms 0.41	
Device	0.03	0.41	
Certification			
Device	CE, RoHS, FCC		
Power Supply	CE, FCC, cULus		
Compliance			
NDAA-899	Yes		



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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