



Introduction

The Atlona **AT-OME-EX-TX-WP** is an HDBaseT transmitter for video up to 4K/60 4:2:0, plus embedded audio, control, and USB over distances up to 330 feet (100 meters). It features a US one-gang, Decora®-style 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-TX-WP is HDCP 2.2 compliant and transmits RS-232 control signals. With a matching HDBaseT receiver, 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 OME-EX-TX-WP includes a USB 2.0 host interface for a PC, plus a peripheral device such as a speakerphone, microphone, or keyboard and mouse. This transmitter is ideal for use with Omega Series receivers as well as switchers with HDBaseT inputs.⁽¹⁾

Applications

- Complete system integration**
 The OME-EX-TX-WP and OME-SR21 together provide a compact, yet comprehensive and cost-effective integration solution, with 4K scaling, display control, HDBaseT link testing, and audio system interfacing provided by the receiver.
- Lecture hall and training room applications**
 This transmitter is ideal for extending AV connectivity from an OME-PS62 in a central equipment rack to lecterns as well as remote wall and floor box locations, where presenters can easily access the system.
- Video conferencing**
 The OME-EX-TX-WP and a compatible Omega Series receiver or switcher are ideal for soft codec and web-based conferencing applications, with the ability to integrate with PCs, cameras, speakerphones, and microphones.

Key Features

US one-gang enclosure for Decora-style wallplate openings – interchangeable black or white trim kits

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

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

- Transmits up to 330 feet (100 meters) @ 1080p with CAT5e/6 or 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 330 feet (100 meters)

- USB type B interface for connection to a host PC, plus a USB type A port for a peripheral device such as a microphone, speakerphone, or a keyboard and mouse.
- Provides an ideal USB integration solution for software video conferencing, and applications with interactive collaboration.

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.

Remote PoE (Power over Ethernet) powering

- Industry standard IEEE 802.3af PoE is supplied by an Atlona receiver or switcher over HDBaseT.
- Allows convenient wall, floor box, or furniture installation without the need for local AC power.

Specifications

Video	
Signal	Input - HDMI Output - HDBaseT
Copy Protection	HDCP 2.2
Pixel Clock	300 MHz
UHD/HD/SD	4096x2160(DCI)@60 ⁽²⁾ /30/24 Hz 1920x1080i@25/29.97/30 Hz 3840x2160(UHD)@60 ⁽²⁾ /50 ⁽²⁾ /24/25/30 Hz 720p@30/50/59.94/60 Hz 1920x1080p@23.98/24/25/29.97 /30/50/59.94/60 Hz
VESA All resolutions are 60Hz	2560x1600 @ 60 Hz (RB) 1366x768 @ 60 Hz 2048x1536 @ 60 Hz 1360x768 @ 60 Hz 2048x1200 @ 60 Hz 1280x1024 @ 60 Hz 2048x1080 @ 60 Hz 1280x800 @ 60 Hz 1920x1200 @ 60 Hz (RB) 1280x768 @ 60 Hz 1920x1080 @ 60 Hz (RB) 1280x720 @ 60 Hz 1680x1050 @ 60 Hz 1152x870 @ 75 Hz 1600x1200 @ 60 Hz 1024x768 @ 60 Hz 1600x900 @ 60 Hz 848x480 @ 60 Hz 1440x900 @ 60 Hz 800x600 @ 60 Hz 1400x1050 @ 60 Hz 640x480 @ 60 Hz
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/6	295	90	330	100
CAT6a/7	330	100	330	100

USB	
Signal	2.0
Maximum Data Rate	120 Mbps

CEC	
Port	HDMI, Type A, 19-pin female
Triggering	Through IP, RS-232, and built-in web server

RS-232	
Port	1 x 3-pin captive screw
Use	Pass-through from control system to sink device
Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200
Data flow	Bi-directional

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

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

Environmental	Fahrenheit	Celsius
Operating Temperature	+32 to +104	0 to +40
Storage Temperature	-4 to +140	-20 to +60
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
BTU/h	38.1

Dimensions (H x W x D)	Inches	Millimeters
Unit	4.07 x 1.80 x 2.63	103 x 45 x 67

Weight	Pounds	Kilograms
Device	0.40	0.18

Certification	
Device	CE, FCC

Compliance	
NDAA-899	Yes

Footnotes

- (1) The AT-OME-EX-TX-WP is not compatible with the AT-UHD-HDVS-300 system for extending USB.
 (2) HDMI input supports up to 4K/UHD @ 60 Hz YUV 4:4:4 8-bit. HDBaseT output supports 4K/UHD @ 60 Hz YUV 4:2:0 only. An input of 4K/UHD @ 60 Hz YUV 4:4:4 will be converted to output 4K/UHD @ 60 Hz YUV 4:2:0.

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