



Introduction

The Atlona **AT-OME-EX-TX** is an HDBaseT transmitter for video up to 4K/60 4:2:0, plus embedded audio, control, Ethernet, and USB over distances up to 330 feet (100 meters). Part of the Omega[™] Series of integration products for modern AV communications and collaboration, the OME-EX-TX is HDCP 2.2 compliant and transmits IR, RS-232, and IP 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 includes a USB host 2.0 host interface for a PC, plus two peripheral devices such as a speaker phone, microphone, or keyboard and mouse. This transmitter is ideal for use with Omega Series receivers as well as switchers with HDBaseT inputs. Also available is the OME-EX-KIT which includes the OME-EX-TX and OME-EX-RX⁽¹⁾.

Applications

Complete system integration

The OME-EX-TX 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.

Larger system applications

This transmitter is ideal for extending AV connectivity from a central equipment rack to a meeting table or lectern, where presenters can easily access the system.

• Video conferencing

The OME-EX-TX 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

HDBaseT transmitter for HDMI, Ethernet, power, control, and USB up to 330 feet (100 meters)

- Transmits HDMI 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 hub and extension over HDBaseT

- 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.
- 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.

Low-profile, 1 inch (25 millimeter) high quarter rack-width enclosure

- Easy installation into racks and confined spaces.
- Keeps devices out-of-sight when placed in public spaces.

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 2.0, HDCP 2.2		
TMDS Clock	300 MHz		
UHD/HD	4096×2160(DCI)@60 ⁽²⁾ /30/24 Hz, 3840×2160(UHD)@60 ⁽²⁾ /50/24/25/30 Hz, 1080p@23.98/24/25/29.97/3/ /50/59.94/60 Hz, 1080i@25/29.97/30 Hz, 720p@30/50/59.94/60 Hz		
VESA	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			
Audio			
Pass-through	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby [®] Digital, DTS 5.1, 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			
	2.0		
Signal Maximum Data Rate			
Maximum Dala hale	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		
IP	Pass-through from control system to sink device up to 100 Mbps over HDBaseT		
Connectors			
HDMI IN	1 - Type A, 19-pin female		
FW	1 - mini-USB		
HDBaseT OUT	1 - RJ45		
HOST	1 - USB Type-B; USB 2.0		

HUSI	I - USB Type-B; USB 2.0
DEVICE	2 - USB Type-A; USB 2.0
LAN	1 - RJ45, 10/100 Mbps
RS-232 / IR	1 - captive screw, 4-pin

Indicators and Controls	
PWR LED indicator	1 - LED, green
LINK LED indicator	1 - LED, yellow

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI IN/OUT	15	5	30	10
CAT5e	295	90	330	100
CAT6/6a/7	330	100	330	100

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Power		
Consumption	TBD	
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)	1.02 in x 4.29 in x 3.50 in 25 mm x 109 mm x 89 mm	
Weight	0.89 lb, 406 g	
Safety	CE, RoHS, FCC	

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



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