



Introduction

The Atлона **AT-OME-EX-TX-WP-E** 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 is designed for commercial installations in Europe, and includes interchangeable EU and UK faceplates and brackets. Part of the Omega™ Series of integration products for modern AV communications and collaboration, the OME-EX-TX-WP-E 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-E includes a USB 2.0 host interface for a PC, plus two peripheral devices 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-E 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-E 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

Two-gang enclosure for EU and UK wallplate openings – interchangeable EU and UK trim kits

- Allows inconspicuous installation on a wall, in furniture, or in a floor box. Includes EU and UK faceplates and brackets.
- 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 two USB type A ports for peripheral devices 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 3840x2160 (UHD) @ 60 ⁽²⁾ /50 ⁽²⁾ /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 | 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 | 295 | 90 | 330 | 100 |
| CAT6/6a/7 | 330 | 100 | 330 | 100 |

| USB | |
|-------------------|-----------|
| Signal | 2.0 |
| Maximum Data Rate | 120 Mbps |
| Internal Hubs | 1 USB hub |

| 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 | Bidirectional |

| 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 | 11.68 W (includes 2.5 W for USB, powered by RX) |
| USB Power | 2.5 W USB device interface |
| BTU/h | 39.8 |

| Dimensions (H x W x D) | Inches | Millimeters |
|------------------------|--------------------|-----------------|
| EU version | 5.98 x 3.19 x 1.77 | 152 x 81 x 45 |
| UK version | 5.79 x 3.44 x 1.77 | 147 x 87.5 x 45 |

| Weight | Pounds | Kilograms |
|--------|--------|-----------|
| Device | 0.40 | 0.18 |

| Certification | |
|---------------|---------------|
| Device | CE, RoHS, FCC |

| Compliance | |
|------------|-----|
| NDAA-899 | Yes |
| TAA | Yes |

| Warranty | |
|----------|--|
| 3 years | View the full warranty information here: https://atlona.com/warranty |

Footnotes

- (1) The AT-OME-EX-TX-WP-E 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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