



Introduction

The Atlona **AT-OME-EX-RX** is an HDBaseT receiver 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-RX is HDCP 2.2 compliant and receives IR, RS-232, and IP control signals. With a matching HDBaseT transmitter, 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-RX includes two USB interfaces for devices such as a camera, soundbar, or display. This receiver is ideal for use with Omega Series transmitters as well as switchers with HDBaseT outputs. 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-RX and an Omega Series switcher together provide a comprehensive and cost-effective integration solution for meeting rooms and other AV presentation spaces.

Video conferencing and interactive displays

The OME-EX-RX and a compatible Omega Series transmitter or switcher are ideal for soft codec and web-based conferencing applications, with the ability to integrate with PCs, cameras, speakerphones, and microphones. They can also provide AV and USB extension for a touch-enabled display, allowing remote PC control at a meeting table or other location.



Key Features

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

- Receives 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 interfacing and extension⁽²⁾ up to 330 feet (100 meters)

- Two USB type A ports for peripheral devices such as a camera or display.
- Supports USB 2.0 devices, USB 3.0 devices compatible with USB 2.0, and legacy USB 1.x peripherals.
- 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.

Remotely powered over HDBaseT, or locally powered

- Industry standard IEEE 802.3af PoE is supplied by an Omega Series switcher over HDBaseT.
- Also can be locally powered, and supply IEEE 802.3af PoE over HDBaseT to an Omega Series transmitter. Includes AC power supply.

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

- Receives 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.

Multi-channel audio compliant

- Passes through multi-channel audio formats.
- Supports PCM, Dolby[®] Digital, Dolby Digital Plus[™], Dolby TrueHD, Dolby Atmos[®], DTS[®] Digital Surround[™], DTS-HD Master Audio[™], and DTS:X[®].

Field-updatable firmware

• Device can be updated in the field via the USB port

Front panel power and signal status LEDs

- LED indicators provide power and HDBaseT link status information.
- Provides convenient setup and troubleshooting.



Key Features (continued)

Low-profile, 1.02 inch (26 mm) high enclosure

• Easy installation into confined spaces below tables, in furniture, and behind or above displays.

Included accessories

• Installation guide, surface mounting hardware, and external universal power supply.



Specifications

Video				
Signal	Input - HDBaseT Output - HDMI			
Copy Protection	HDCP 2.2			
Pixel Clock	300 MHz			
UHD/HD/SD	4096×2160 (DCI) @ 60 ⁽³⁾ /30, 3840×2160 (UHD) @ 60 ⁽³⁾ /50 30 Hz	0/24/25/ 30 19	0/50/59.94/6 020x1080i @	@ 23.98/24/25/29.97/ 60 Hz @ 25/29.97/30 Hz, 9 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	13 12 12 12 12 11 10 80	366×768 360×768 280×1024 280×800 280×768 152×768 024×768 00×600 40×480	
VESA 21:9	2560x1080 @ 30 Hz 4:4:4 2560x1080 @ 60 Hz 4:4:4 3440x1440 @ 30 Hz 4:4:4			50 Hz 4:4:4 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 Plu Dolby TrueHD Dolby Atmos®	JS™	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 / Met	ers	1080p - Feet / Meter	S
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 Pass-through from control system to sink device Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200 IP Pass-through from control system to sink device Supports up to 100 Mbps over HDBaseT IR Pass-through from control system to sink device CEC Support Yes Buttons and Indicators Indicators: INK 1 x LED, green LINK 1 x LED, green LINK 1 x Type A, 19-pin female HDMI OUT 1 x Type A, 19-pin female HDBaseT IN N/A DEVICE 2 x USB Type A LAN 1 x A-pin captive screw (1 x RS-232, 1 x IP) FW 1 x Type mini-B, 5-pin female DC 48V 1 x 2-pin captive screw Environmental Fahrenheit Celsius Operating Temperature 0 to +122 -18 to -50 Storage Temperature 0 to +12 -18 to -50 Operating Humidity (RH) 20% to 90%, non-condensing -20 to +60 Operating Humidity (RH) 20% to 90%, non-condensing -20 to +60 Output: 48 V / 0.83 A DC UIT (TX / RX) 1.02 x 4.29 x 5.00 26 x 109 x 127 Power Supply 1.42 x 1.81 x 4.41 <th>RS-232 Pass-through from control system to sink device Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200 IP Pass-through from control system to sink device Supports up to 100 Mbps over HDBaseT IR R Pass-through from control system to sink device CEC Support Yes Buttons and Indicators Indicators: PWR 1 x LED, green LINK 1 x LED, yellow Concetors Ves PUNI OUT 1 x Type A, 19-pin female HDBaseT IN N/A DEVICE 2 x USB Type A LAN 1 x RJ45 RS-232 / IR 1 x 4-pin captive screw (1 x RS-232, 1 x IR) FW 1 x Type mini-B, 5-pin female DC 48V 1 x 2-pin captive screw (1 x RS-232, 1 x IR) FW 1 x Type mini-B, 5-pin female DC 48V 1 x 2-pin captive screw Consectors Celsius Operating Temperature 0 to +122 -18 to +50 Storage Temperature Operating Humidity (RH) 20% to 90%, non-condensing Fower 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 Millimeters Unit (</th> <th>Control</th> <th></th> <th></th>	RS-232 Pass-through from control system to sink device Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200 IP Pass-through from control system to sink device Supports up to 100 Mbps over HDBaseT IR R Pass-through from control system to sink device CEC Support Yes Buttons and Indicators Indicators: PWR 1 x LED, green LINK 1 x LED, yellow Concetors Ves PUNI OUT 1 x Type A, 19-pin female HDBaseT IN N/A DEVICE 2 x USB Type A LAN 1 x RJ45 RS-232 / IR 1 x 4-pin captive screw (1 x RS-232, 1 x IR) FW 1 x Type mini-B, 5-pin female DC 48V 1 x 2-pin captive screw (1 x RS-232, 1 x IR) FW 1 x Type mini-B, 5-pin female DC 48V 1 x 2-pin captive screw Consectors Celsius Operating Temperature 0 to +122 -18 to +50 Storage Temperature Operating Humidity (RH) 20% to 90%, non-condensing Fower 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 Millimeters Unit (Control				
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	Device CE, RoHS, FCC	Operating Temperature Storage Temperature Operating Humidity (RH) Power Consumption USB Power External Power Supply Dimensions (H x W x D) Unit (TX / RX) Power Supply (AT-PS-48083-D3) Weight Device Certification	0 to +122 -4 to +140 20% to 90%, non-condensing 18.76 W 2.5 W per USB device interface 100 - 240 V AC, 50/60 Hz Output: 48 V / 0.83 A DC Inches 1.02 x 4.29 x 5.00 1.42 x 1.81 x 4.41 Pounds 0.94	-18 to +50 -20 to +60 Millimeters 26 x 109 x 127 36 x 46 x 112 Kilograms		
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Compliance	
NDAA-899	Yes
ТАА	Yes
Warranty	
3 yea	View the full warranty information here: https://atlona.com/warranty

Footnotes

(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) HDBaseT transmitter or switcher must also be HDCP 2.2 compliant.

(3) Only supports 4:2:0.



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