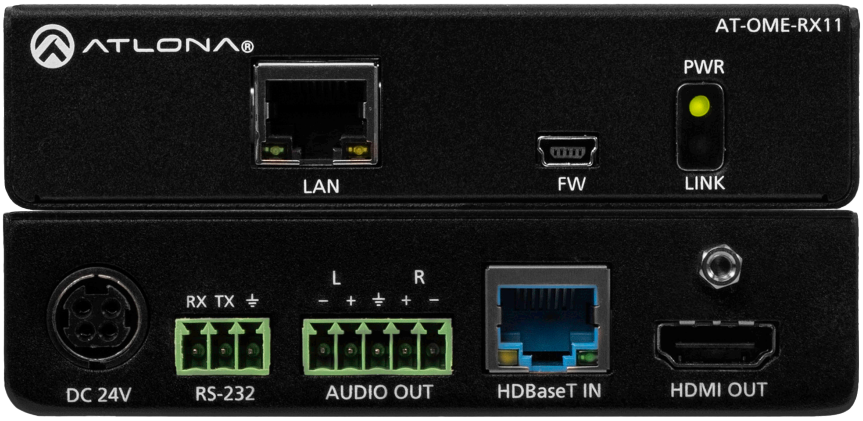
Omega™ 4K/UHD

HDMI Over HDBaseT Receiver

with Ethernet, Control, PoE, and Audio De-Embedding



Introduction

The Atlona AT-OME-RX11 is an HDBaseT receiver for video up to 4K/60 4:2:0, plus embedded audio, control, and Ethernet over distances up to 330 feet (100 meters). Part of the Omega™ Series of integration products for modern AV communications and collaboration, the OME-RX11 is HDCP 2.2 compliant and receives RS-232 and IP control signals. Additionally, this receiver features two-channel audio de-embedding to a balanced analog audio output. The OME-RX11 is locally powered, and can deliver Power over Ethernet (PoE) over HDBaseT to an Atlona Omega Series, HDVS-200 Series, or AT-UHD-EX-100CE-TX-PD transmitter.

The OME-RX11 incorporates many popular integration convenience features, while delivering excellent performance and value for 4K presentation applications. The Ethernet port on the OME-RX11 is for IP pass-through with the transmitter.

Applications

- **Complete system integration**
  The OME-RX11 and an Omega Series switcher together provide a comprehensive and cost-effective integration solution for meeting rooms and other AV presentation spaces..
- **Larger system applications**
  The OME-RX11 offers a new option for legacy Atlona transmitters and switchers with HDBaseT outputs, to provide audio de-embedding for feeding into an amplifier and speakers.

Key Features

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

- Receives 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.

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.

Local AC powering – PoE (Power over Ethernet) source

- Supplies industry standard IEEE 802.3af PoE over HDBaseT to an Omega Series, HDVS-200 Series, or AT-UHD-EX-100CE-TX-PD transmitter.
- Allows convenient transmitter installation at any remote location, without the need for local AC power.

Audio de-embedding

- De-embeds two channel PCM audio to a balanced, analog audio output.
- Deliver audio to an amplifier and speakers for sound reinforcement.

Front panel power and signal status LEDs

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

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

- Easy installation into confined spaces below tables, in furniture, and behind or above displays.
- Includes mounting hardware for installation onto surfaces.

Specifications

Video		
Signal	Input - HDMI	
Copy Protection	HDCP 2.2	
Pixel Clock	300 MHz	
HD/SD	4096x2160@60/50/30/25/24Hz 3840×2160@60/50/30/25/24Hz 1920x1080p@60/59.9/50/30/29.97/25/24/23.98Hz 1920x1080i@30/29.97/25Hz	1280x720p@60/59.94/50Hz 720x576p@50Hz 720x576i@25Hz 640x480p@60/59.96Hz 640x480i@30Hz
VESA All resolutions are 60Hz	1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1366x768 1360x768	1280x1024 1280x800 1152x768 1024x768 800x600 640x480
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 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		
Analog Audio			
Format	Stereo 2-Channel		
Output level	L: 5.883 Vrms R: 5.855 Vrms		
Frequency Response	20 Hz to 20 kHz, ± 0.5 dB		
THD+N	< 0.00009% at 20 Hz to 20 kHz		
SNR	> 141.49 dB at 1 kHz		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

Control				
RS-232	2-way device control and monitoring Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200			
CEC Support	Yes			

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

Buttons and Indicators	
Indicators:	
PWR	1 - LED, green
LINK	1 - LED, yellow

Connectors	
HDBaseT IN	1 - RJ45, female
HDMI IN 2	1 - Type A, 19-pin female
VGA IN	1 - Type A, 19-pin female
HDMI OUT	1 - 3-pin captive screw (bidirectional)
AUDIO IN	1 - RJ45, 100Base-T
AUDIO OUT	1 - Mini-USB, 5-pin female
RS-232	1 - 4-pin, mini-DIN locking connector

Environmental	Fahrenheit	Celsius
Operating Temperature	+32 to +122	0 to +50
Storage Temperature	-4 to +140	-20 to +60
Operating Humidity (RH)	20% to 90%, non-condensing	

Power		
Consumption	15.12 W	
BTU/h	51.6	
External Power Supply	Input: 100 - 240 VAC, 50/60 Hz Output: DC 24 V / 2.7 A	

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.02 x 4.29 x 5.24	26 x 109 x 133
Power Supply (AT-PS-54-C)	1.26 x 1.93 x 4.69	32 x 49 x 119

Weight	Pounds	Kilograms
Device	0.90	0.41

Certification	
Device	CE, FCC
Power Supply	CE, FCC, UL

Compliance	
NDAA-899	Yes
TAA	Yes

Warranty	
Device	To view the product warranty, use the following link: https://atlona.com/warranty

Accessories

SKU	Description
AT-LC-H2H-1M	LinkConnect HDMI to HDMI Cable
AT-LC-H2H-2M	LinkConnect HDMI to HDMI Cable
AT-LC-H2H-3M	LinkConnect HDMI to HDMI Cable

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