AT-OME-RX11
Specification Sheet

Omega™ 4K/UHD HDBaseT™ Receiver with Ethernet, Control, PoE, and Audio De-Embedding

Description

The 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 AT-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 AT-OME-RX11 is locally powered, and can deliver Power over Ethernet (PoE) over HDBaseT to an Omega Series, HDVS-200 Series, or AT-UHD-EX-100CE-TX-PD transmitter.

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

Applications

Complete System Integration

- The AT-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

- Adds audio de-embedding to legacy transmitters and switchers with HDBaseT outputs, for feeding an amplifier and speakers.

Key Features

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

- Receives up to 330 feet (100 meters) at 1080p with Cat 5e/6 or at 4K/UHD with Cat 6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

4K/UHD capability at 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 the latest specification for High-bandwidth Digital Content Protection.
- Allows protected content to pass between authenticated devices.

Local AC powering — PoE source

- Supplies 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 local AC power.

Audio de-embedding

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

Front-panel power and signal status LEDs

- LED indicators show power and HDBaseT link status for 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 surface installation.

Specifications

Video	
Signal	Input: HDBaseT Output: HDMI
Copy Protection	HDCP 2.2
Pixel Clock	300 MHz
UHD / HD / SD	4096 × 2160 @ 24, 25, 30, 50, 60 Hz 3840 × 2160 @ 24, 25, 30, 50, 60 Hz 1920 × 1080p @ 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 Hz 1920 × 1080i @ 25, 29.97, 30 Hz 1280 × 720p @ 50, 59.94, 60 Hz 720 × 576p @ 50 Hz; 720 × 576i @ 25 Hz 640 × 480p @ 59.94, 60 Hz; 640 × 480i @ 30 Hz
VESA	1920 × 1200, 1680 × 1050, 1600 × 1200, 1440 × 900, 1400 × 1050, 1366 × 768, 1360 × 768, 1280 × 1024, 1280 × 800, 1152 × 768, 1024 × 768, 800 × 600, 640 × 480 — all @ 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 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-bit
Sample Rate	32, 44.1, 48, 88.2, 96, 176.4, 192 kHz

Analog Audio Output	
Format	2-channel stereo, balanced or unbalanced
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

Control	
RS-232	Two-way device control and monitoring Baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200
IP	Ethernet pass-through with the transmitter
CEC Support	Yes

Cable / Resolution	4K/UHD	1080p
HDMI IN / OUT	15 ft (5 m)	30 ft (10 m)
Cat 5e	295 ft (90 m)	330 ft (100 m)
Cat 6 / 6a / 7	330 ft (100 m)	330 ft (100 m)

Indicators	
PWR	1× LED, green
LINK	1× LED, yellow

Connectors	
HDBaseT IN	1× RJ45
HDMI OUT	1× HDMI Type A, 19-pin female
LAN	1× RJ45
AUDIO OUT	1× 5-pin captive screw, balanced / unbalanced 2-channel
RS-232	1× 3-pin captive screw
FW	1× USB Mini-B
DC 24V	1× DC power input

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

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

Dimensions (H × W × D)	Inches	Millimeters
Unit	1.02 × 4.29 × 5.24 in	26 × 109 × 133 mm
Power Supply (AT-PS-2427-D4)	1.26 × 1.93 × 4.69 in	32 × 49 × 119 mm

Weight	Pounds	Kilograms
Device	0.90 lb	0.41 kg

Certifications	
Device	FCC, CE
Power Supply	FCC, CE, UL

Compliance	
NDAA-889	Yes
TAA	Yes

Warranty	
Device	To view the product warranty, visit: hallresearch.com/warranty

4K/UHD @ 60 Hz over HDBaseT is 4:2:0.

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