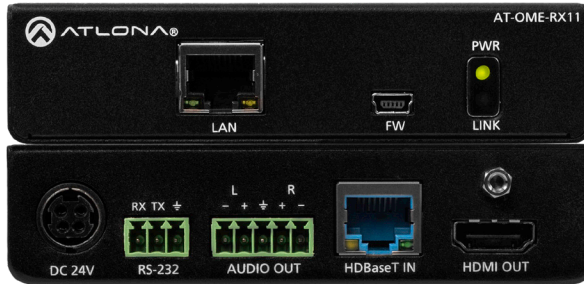# Omega 4K/UHD Scaler for HDBaseT and HDMI
AT-OME-RX11

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.
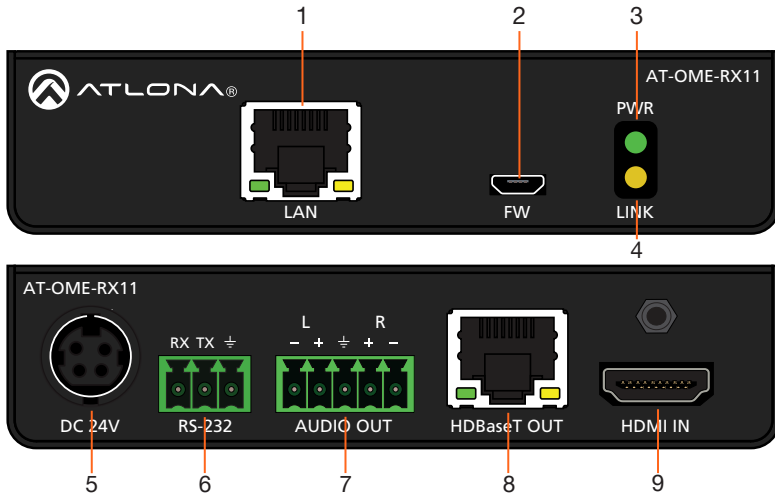
Package Contents

1 x AT-OME-RX11
2 x Captive screw connector, 5-pin
1 x Captive screw connector, 3-pin
4 x Mounting screws
1 x Pair rack mount ears
1 x 24V DC power supply
1 x IEC power cord
1 x Installation Guide

⚠ **IMPORTANT**: Visit https://atlona.com/product/AT-OME-RX11 for the latest firmware updates and User Manual.

Panel Descriptions

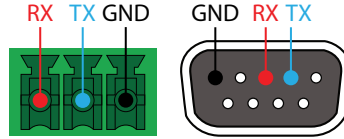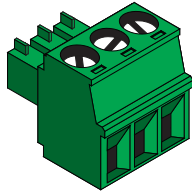**1 LAN**
Connect an Ethernet cable to this port to pass Ethernet to a local device from a transmitter or from a local network switch to a compatible transmitter.

2 FW
Connect to a computer using a mini USB to USB A cable (not included).

3 PWR LED
Illuminates green when receiving power.

4 LINK LED
Illuminates yellow when receiving signal from the HDBaseT input port.

5 DC 24V
Connect the included DC 24V power supply to this port.

6 RS-232
Bi-directional port for pass through display control from/to a compatible transmitter.

7 AUDIO OUT
Connect to an audio DSP, amplifier, or other audio distribution devices.

8 HDBaseT IN
Connect a compatible HDBaseT transmitter to this port.

9 HDMI OUT
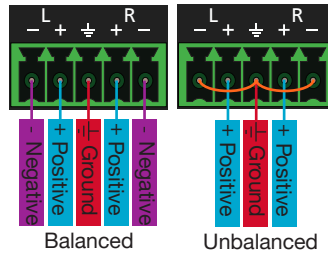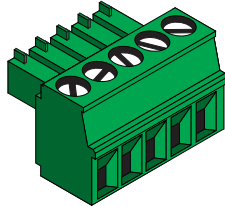Connect an HDMI cable from here to an HDMI display.

RS-232

A 3-pin captive screw connector has been included for RS-232.

RX TX GND   GND RX TX

Pin out will be determined by the RS-232 cable and connect as RX (receive), TX (transmit) and ⊥ (Ground).

Audio

Deembeds audio and sends to a connected audio DSP, amplifier, or other audio distribution devices.

L   R   L   R
− + ⊥ + −   − + ⊥ + −

Balanced   Unbalanced

- Negative
- + Positive
- ⊥ Ground
- + Positive
- − Negative

- + Positive
- ⊥ Ground
- + Positive

Use a jumper between the negative and ground pins when using an unbalanced connection.

Mounting Instructions

The AT-OME-RX11 includes two mounting brackets and four mounting screws, which can be used to attach the units to any flat surface.

1. Remove the top 2 case screws on the side of the unit.

2. Align the mounting brackets to the side of the units.

3. Use the previously removed case screws to secure the mounting bracket to the enclosure.

4. Repeat the steps for the other side of the unit.

Included screws

5. Mount the unit using the oval-shaped holes, on each mounting bracket. If using a drywall surface, a #6 drywall screw is recommended.

> **NOTE:** Mounting brackets can also be inverted to mount the unit under a table or other flat surface.

Cable Recommendation Guidelines

Refer to the tables below for recommended cabling when using Altona products with HDBaseT. The green bars indicate the signal quality when using each type of cable. Higher-quality signals are represented by more bars.

Core	Shielding	CAT5e	CAT6	CAT6a	CAT7
Solid	UTP (unshielded)	■	■■■	■■■■	N/A
	STP (shielded)	■■	■■■■	■■■■■	■■■■■
Performance Rating (MHz)		350	500	600	800

⚠️ **IMPORTANT:** Stranded or patch cables are not recommended due to performance issues.

Cable	Max. Distance @ 4K	Max. Distance @ 1080p
CAT5e	295 feet (90 meters)	330 feet (100 meters)
CAT6 / CAT6a / CAT7	330 feet (100 meters)	330 feet (100 meters)

Use of a TIA/EIA 568B termination is recommended for optimal performance.

Pair A
Pair B
Pair C
Pair D

568B RJ45 Pairings
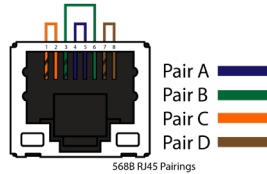
Installation

1. Connect a compatible HDBaseT transmitter (e.g. AT-OME-ST31 or AT-OME-EX-TX) to the HDBaseT input port using a category cable.

2. Connect an HDMI cable from the output port to an HDMI display.

3. *Optional* Connect the 2CH analog AUDIO OUT port to a DSP, or audio amplifier.

4. *Optional* Connect to the 3-pin captive screw RS-232 port to control the display or send commands back to the compatible transmitter over HDBaseT.

5. *Optional* Connect an Ethernet cable to the LAN port to pass or receive Ethernet. This can be connected to a display if receiving Ethernet from a compatible transmitter or to a network switch if sending Ethernet to a compatible transmitter.

6. Connect the included DC 24V power supply to the power port.

7. Connect the included IEC power cord from the power supply to a compatible power outlet.

Notes

Notes

Version 1