

Omega 4K/UHD Scaler for HDBaseT and HDMI

AT-OME-RX11



The Atлона 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 Atлона Omega Series, HDVS-200 Series, or AT-UHD-EX-100CE-TX-PD transmitter.

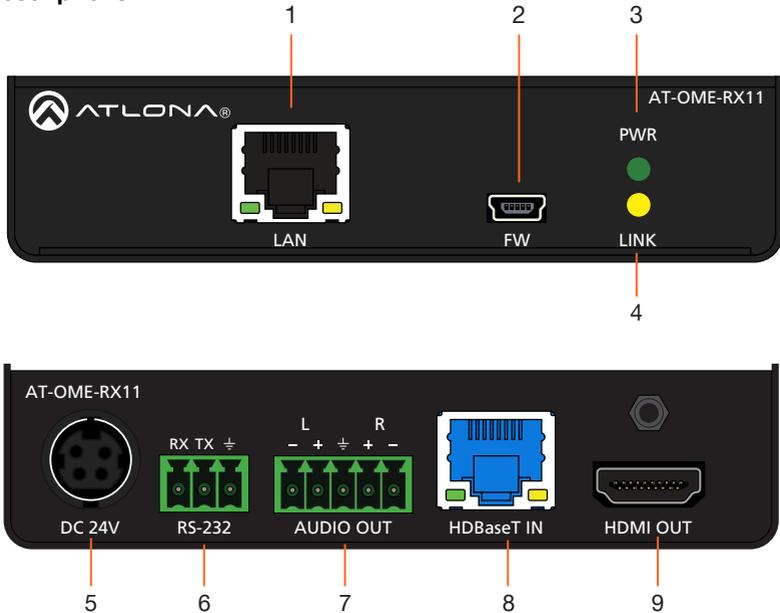
Package Contents

- 1 x AT-OME-RX11
- 1 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://atлона.com/product/AT-OME-RX11> for the latest firmware updates and User Manual.

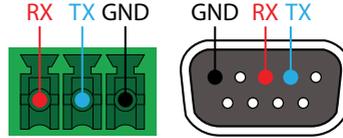
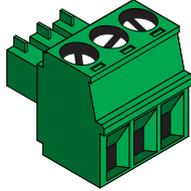
Panel Descriptions



- | | |
|--|--|
| <p>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.</p> <p>2 FW
Connect to a computer using a mini USB to USB A cable (not included).</p> <p>3 PWR LED
Illuminates green when receiving power.</p> <p>4 LINK LED
Illuminates yellow when receiving signal from the HDBaseT input port.</p> <p>5 DC 24V
Connect the included DC 24V power supply to this port.</p> | <p>6 RS-232
Bi-directional port for pass through display control from/to a compatible transmitter.</p> <p>7 AUDIO OUT
Connect to an audio DSP, amplifier, or other audio distribution devices.</p> <p>8 HDBaseT OUT
Connect a compatible HDBaseT transmitter to this port.</p> <p>9 HDMI IN
Connect an HDMI cable from here to an HDMI source.</p> |
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RS-232

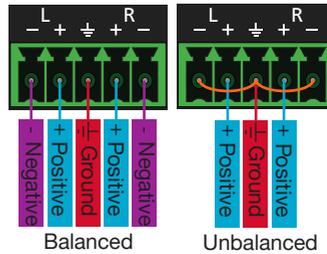
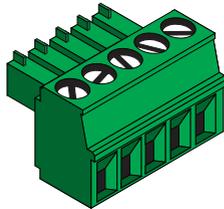
A 3-pin captive screw connector has been included for RS-232.



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

Audio

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



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.



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.

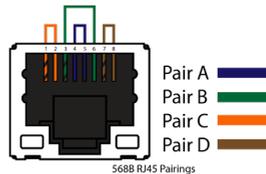
Core	Shielding	CAT5e	CAT6	CAT6a	CAT7
Solid	UTP (unshielded)	■	■■■	■■■■	N/A
	STP (shielded)	■■	■■■■	■■■■■	■■■■■
Performance Rating (MHz)		350	500	600	800



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.



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.

Updating the Firmware

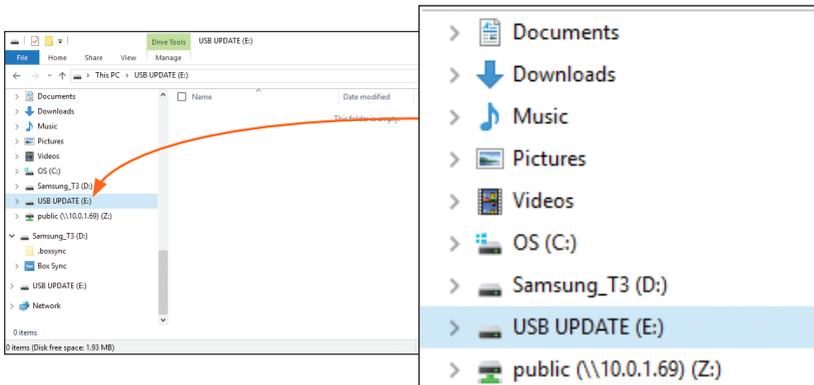
Requirements:

- AT-OME-RX11
- Firmware file
- Computer running Windows
- USB-A to USB mini-B cable



NOTE: The update process can take up to five minutes to complete.

1. Disconnect power from the AT-OME-RX11.
2. Connect a USB-A to USB mini-B cable between the PC and the **FW** port on the AT-OME-RX11.
3. Connect the included power supply to the AT-OME-RX11.
4. The USB UPDATE folder will be displayed. If this folder is not displayed, automatically, select the USB UPDATE drive from Windows Explorer.



5. Delete all files from the USB UPDATE drive, if any are present.
6. Drag-and-drop the firmware file to the drive.
7. The **PWR** LED indicator, on the front panel, will flash green while the AT-OME-RX11 is being updated. Do not disconnect the USB cable during the update process. When the **PWR** LED stops flashing and is solid green, the update process will be complete.
8. Disconnect the USB cable from the AT-OME-RX11.



Notes

Warranty

To view the product warranty, use the following link or QR code:

<https://atlona.com/warranty/>.



Version 5

English Declaration of Conformity

The English version can be found under the resources tab at:

<https://atlona.com/product/at-ome-rx11/>.



Chinese Declaration of Conformity 中国RoHS合格声明

由SKU列出於:

<https://atlona.com/about-us/china-rohs/>.



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