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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.
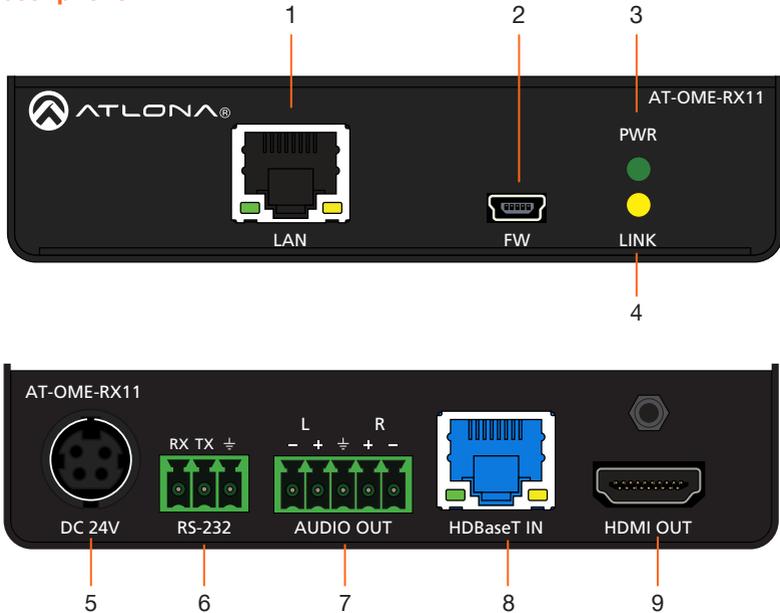
Package Contents

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

Panel Descriptions

AT-OME-RX11

PWR

LAN   FW   LINK

AT-OME-RX11

L   R
RX TX ⏚   − + ⏚ + −

DC 24V   RS-232   AUDIO OUT   HDBaseT IN   HDMI OUT

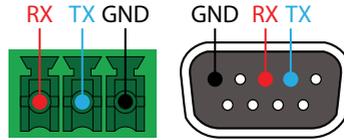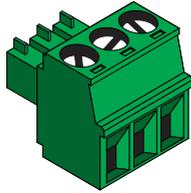**1   LAN**
Connect an Ethernet cable to this port
to pass Ethernet to a local device from a
transmitter or from a local network switch
to a compatible transmitter.

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 OUT
Connect a compatible HDBaseT
transmitter to this port.

9   HDMI IN
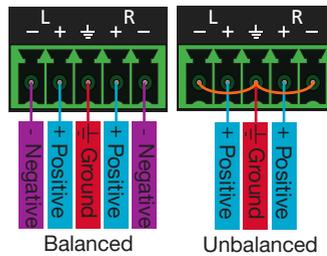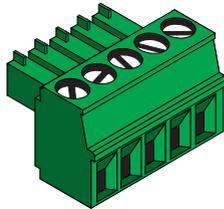Connect an HDMI cable from here to an
HDMI source.

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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
− + ⏚ + −

Negative − | Positive + | Ground ⏚ | Positive + | Negative −

Positive + | Positive + | Ground ⏚ | Positive + | Positive +

Balanced   Unbalanced

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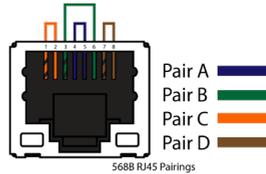
Core	Shielding	CAT5e	CAT6	CAT6a	CAT7
Solid	UTP (unshielded)	■	■■■	■■■■	N/A
	STP (shielded)	■■	■■■■	■■■■■	■■■■■
Performance Rating (MHz)		350	500	600	800

⚠ **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.
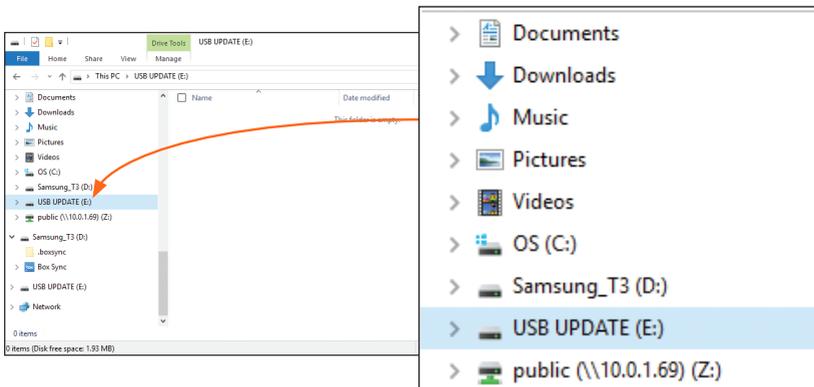
Updating the Firmware

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.

Atlona, Inc. ("Atlona") Limited Product Warranty

Coverage

Atlona warrants its products will substantially perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service.

Under its Limited Product Warranty, Atlona, at its sole discretion, will either:

• repair or facilitate the repair of defective products within a reasonable period of time, restore products to their proper operating condition and return defective products free of any charge for necessary parts, labor and shipping.

OR

• replace and return, free of charge, any defective products with direct replacement or with similar products deemed by Atlona to perform substantially the same function as the original products.

OR

• refund the pro-rated value based on the remaining term of the warranty period, not to exceed MSRP, in cases where products are beyond repair and/or no direct or substantially similar replacement products exist.

Repair, replacement or refund of Atlona products is the purchaser's exclusive remedy and Atlona liability does not extend to any other damages, incidental, consequential or otherwise.

This Limited Product Warranty extends to the original end-user purchaser of Atlona products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

Coverage Periods

Atlona Limited Product Warranty Period begins on the date of purchase by the end-purchaser. The date contained on the end-purchaser's sales or delivery receipt is the proof purchase date.

Limited Product Warranty Terms – New Products

• 10 years from proof of purchase date for hardware/electronics products purchased on or after June 1, 2013.

• 3 years from proof of purchase date for hardware/electronics products purchased before June 1, 2013.

• Lifetime Limited Product Warranty for all cable products.

Limited Product Warranty Terms – Refurbished (B-Stock) Products and Discontinued Products

• 3 years from proof of purchase date for all Refurbished (B-Stock) and Discontinued hardware and electronic products purchased on or after June 1, 2013.

Remedy

Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products. Atlona can also be contacted directly. Visit www.atlona.com for Atlona's contact information and hours of operation. Atlona requires that a dated sales or delivery receipt from an authorized dealer, reseller or end-purchaser is provided before Atlona extends its warranty services. Additionally, a return merchandise authorization (RMA) and/or case number, is required to be obtained from Atlona in advance of returns.

Atlona requires that products returned are properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization or case number will be refused. Atlona, at its sole discretion, reserves the right to reject any products received without advanced authorization. Authorizations can be requested by calling 1-877-536-3976 (US toll free) or 1-408- 962-0515 (US/international) or via Atlona's website at www.atlona.com.

Exclusions

This Limited Product Warranty excludes:
- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packaging or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.

- Damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Atlona to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.

- Equipment enclosures, cables, power supplies, batteries, LCD displays, and any accessories used in conjunction with the product(s).

- Products purchased from unauthorized distributors, dealers, resellers, auction websites and similar unauthorized channels of distribution.

Disclaimers

This Limited Product Warranty does not imply that the electronic components contained within Atlona's products will not become obsolete nor does it imply Atlona products or their electronic components will remain compatible with any other current product, technology or any future products or technologies in which Atlona's products may be used in conjunction with. Atlona, at its sole discretion, reserves the right not to extend its warranty offering in instances arising outside its normal course of business including, but not limited to, damage inflicted to its products from acts of god.

Limitation on Liability

The maximum liability of Atlona under this limited product warranty shall not exceed the original Atlona MSRP for its products. To the maximum extent permitted by law, Atlona is not responsible for the direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

Exclusive Remedy

To the maximum extent permitted by law, this limited product warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. To the maximum extent permitted by law, Atlona specifically disclaims all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If Atlona cannot lawfully disclaim or exclude implied warranties under applicable law, then all implied warranties covering its products including warranties of merchantability and fitness for a particular purpose, shall provide to its products under applicable law. If any product to which this limited warranty applies is a "Consumer Product" under the Magnuson-Moss Warranty Act (15 U.S.C.A. §2301, ET SEQ.) or other applicable law, the foregoing disclaimer of implied warranties shall not apply, and all implied warranties on its products, including warranties of merchantability and fitness for the particular purpose, shall apply as provided under applicable law.

Other Conditions

Atlona's Limited Product Warranty offering gives legal rights, and other rights may apply and vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of products have been removed or defaced, (ii) products are not purchased from an authorized Atlona dealer or reseller. A comprehensive list of Atlona's authorized distributors, dealers and resellers can be found at www.atlona.com.

Notes

Notes

Version 3

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/.

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

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