

Atlona HDBaseT Receiver over Single CAT5e/6/7 w/IR, RS-232, and Ethernet

AT-HDRX-RSNET





User Manual



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Toll free: 1-877-536-3976



Introduction

Go the distance of up to 328ft (100m) at 4Kx2K with the Atlona HDBaseT Receiver. With pass through support of up to 4Kx2K, 1920x1200, IR, RS-232, bi-directional Ethernet, as well as Lossy and Lossless audio signals over a single CAT cable, the HDRX-RSNET provides an affordable high quality solution for your audio/video needs.

Package Contents

- 1 x AT-HDRX-RSNFT
- 2 x Female Captive Screw Connector (3 pin: RS-232 and 5 pin: IR)
- 1 x Pair of Wall/Rack mount ears
- 1 x User Manual

Features

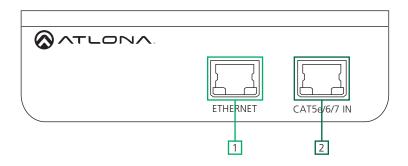
- Extends IR, RS-232, Ethernet, and audio/visual content up to 328ft over a single CAT5e/6/7 cable
- Supports resolutions up to 4Kx2K (four times 1080p) or 1920x1200 on pass through
- Field serviceable through USB
- Captive Screw connectors for RS-232 and IR for better connections and wire management.
- IR ports for emitting and receiving IR control signals for use of IR remote controls and 3rd party IR controller boxes
- Bi-directional Ethernet pass through
- PoCc (Power over Category cable) from compatible transmitters (Ex. AT-HDTX-RSNET)
- Lossy, and lossless multi-channel audio formats pass through (including Dolby TrueHD and DTS-HD Master Audio)
- Full 3D pass through
- HDCP compliant

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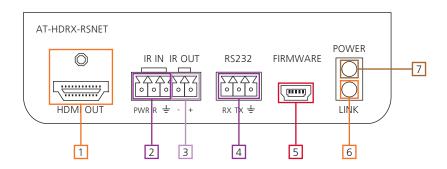
Panel Description

Front Panel



- 1. Ethernet Port: Bi-directional Ethernet pass through, send signal from a router to a source or to a
- 2. CAT5e/6/7 IN Port: Connect CAT5e/6/7 cable from here to a compatible transmitter. Ex. AT-HDTX-RSNET (recommended), AT-HDCAT-8ED, etc.

Back Panel



- 1. HDMI Out Port: Connect HDMI or DVI (with adapter Ex. AT14040) display here.
- 2. IR IN Port: Connect included IR receiver to this port.
- 3. IR OUT Port: Use the included IR Emitter for this port.
- 4. RS-232 Port: Receive signal from a control system or PC.
- 5. Firmware Update Port: Use Mini USB to USB cable to connect to a Windows computer to update.
- 6. Yellow Link LED: Signal Indicator for the CAT5e/6/7 IN port. LED will remain solid, unless there is an issue with the cable or signal, then it will blink.
- 7. Green Power LED: Power indicator. If plugged in, light will remain solid. If LED starts blinking power is intermittent or there is a problem with the cable. If LED is off, no power is passing to the receiver (check the outlet on the transmitter or check the CAT cable).

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Captive Screw

Captive screw connectors are an added feature on the HD Extenders. The Captive screw connectors allow you to cut cables down to a suitable length, reducing cable clutter while providing a more reliable connection.

Connecting

When connecting the cables to the female captive screw connector it is important that the wires be terminated correctly. The female captive screw connector (see picture A) has a contact plate at the top and must have the wires touching it for signal to pass. When wired correctly (see picture B) the signal will pass, incorrectly (see picture C) no signal will pass.

The captive screw connectors have a contact bar that is adjusted to compress the wire against the top contact plate. Use the screws at the top of the connector to compress the wire against the contact plate.



Turn the screws clockwise to raise the contact bar to the upper contact plate and hold the wires in place.



Counter

Turn the screws counter clockwise to lower the contact bar to release the wires



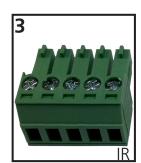




For your convenience the cables do not come pre-terminated. Each item, whether it's an IR receiver (picture 1), or IR emitter (picture 2), will have exposed wires. Each wire is encased in a different colored cover. Female captive screw connectors are included: IR (see picture 3) and RS-232 (see picture 4).





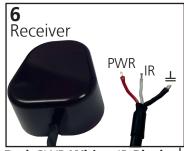




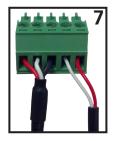
IR pin outs have been included for the included IR emitter and IR receiver (see picture 5 & 6). The wires are colored for each pin (see picture 7 and 8).



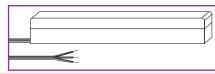












For greater distance and IR rejection from plasma, CFL, and LED panels, purchase the AT-IRX-CS (IR receiver) through atlona.com

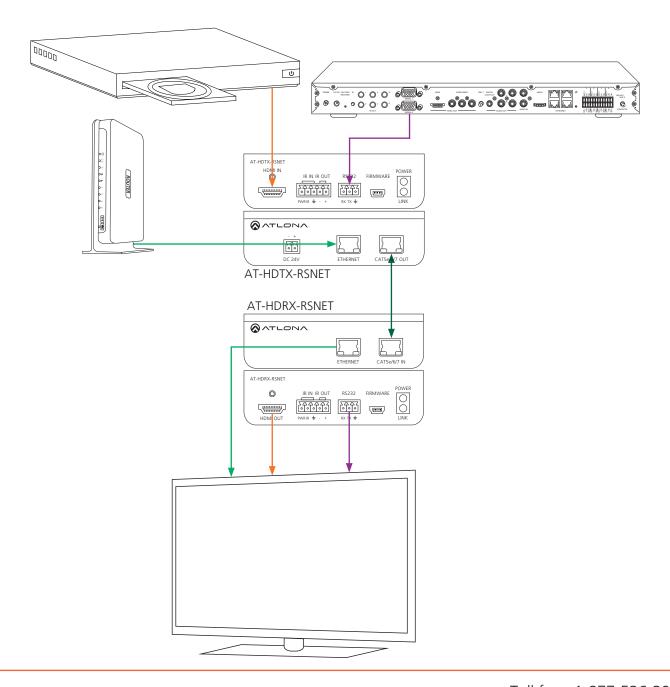


RS-232 pin out will be determined by the RS-232 cable and will connect as Rx (receiver), Tx (transmitter), and \pm (ground). (See picture 9)



Pin out color will differ per RS-232 cable.

Connection and Installation





Specifications

Resolutions

Video 480i@60Hz, 480p@59.94/60Hz,

576i@50Hz, 576p@50Hz,

720p@50/59.94/60Hz, 1080i@50/59.94/60Hz, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz 3840x2160@24/25/30Hz, 4096x2160@30Hz

VESA 800x600, 1024x768, 1280x768, 1280x800, 1280x1024,

1366x768, 1440x900, 1400x1050, 1600x900, 1600x1200,

1680x1050, 1920x1200

RGB, YCbCr 444, YCbCr 422 Colorspace

Color depth 10bit, 12bit

Audio

Formats PCM 2, PCM 5.1, PCM 7.1, Dolby 5.1, DTS 5.1, Dolby Digital+,

Dolby TrueHD, DTS-HD Master Audio

Sample Rate 32KHz, 44.1KHz, 48KHz, 88.2KHz, 96KHz, 176.4KHz, 192KHz

Distance

HDMI 10 meters 30 feet

CAT5e/6 up to 70 meters up to 230 feet CAT6a/7 up to 100 meters up to 328 feet

Signal

Bandwidth 10.2 Gbps Pass through CEC **HDCP** Compliant

Temperature

Operating 0°C to 40°C 32°F to 104°F -20°C to 60°C -4°F to 140°F Storage

Humidity 20 to 90% non-condensing

Power

Consumption 11.3W

Supply Input: AC100~240V 50/60Hz

Output: DC 24V/2.7A

Dimension

 $H \times W \times D$ 37.75 x 127.26 x 102.6 (mm) 1.49 x 5.01 x 4.04 (inch)

Weight

Device 0.24 kg 0.52 lbs 1.11 lbs Shipping 0.5 kg

Certification

Power Supply CE, FCC, RoHS, cULus

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Ports

RJ45 IN

Features 3D pass through

Distance up to 15 meters up to 50 feet

CAPTIVE SCREW

IR in RS-232 IR out

ETHERNET

LAN TCP/IP

MINI USB

Flrmware

HDMI OUT

Features 3D pass through

Distance up to 15 meters up to 50 feet

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Safety Information

Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplying the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your product. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

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

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:

- A) 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
- B) 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

C) 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's products is the purchaser's exclusive remedy and Atlona's 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's products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

Coverage Periods

Atlona's 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

• 3 years from proof of purchase date for all Refurbished (B-Stock) 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 packing 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.

Atlona, Inc Product Registration

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: http://www.atlona.com/registration

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