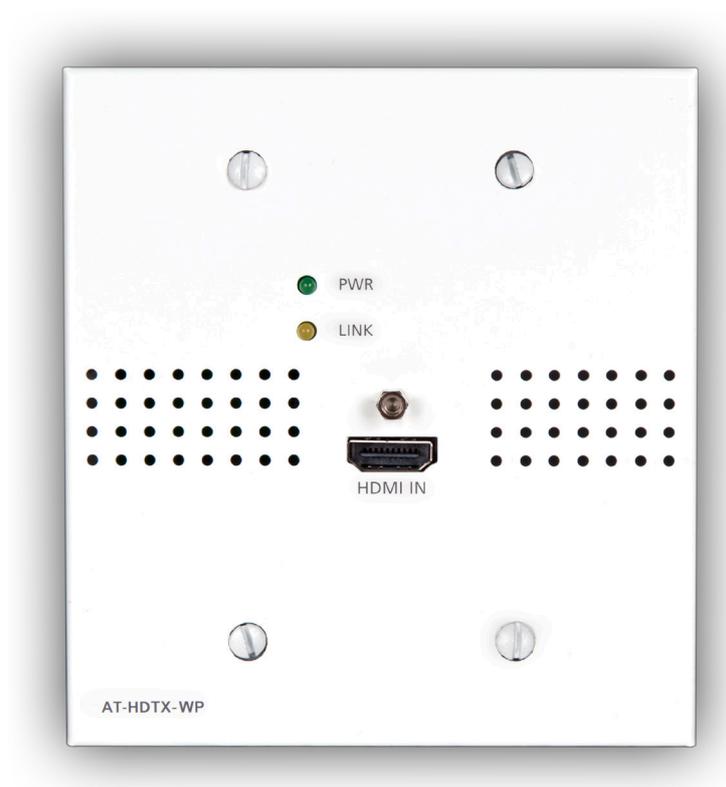


Atlona HDBaseT Wall Plate Transmitter w/RS-232 & IR

AT-HDTX-WP



User Manual

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Introduction

Extend uninterrupted 1080p video signal up to 230ft (70m) with the Atlona HDBaseT Wall Plate Transmitter w/RS-232 & IR. With pass through support of 4Kx2K, 1920x1200, lossy & lossless audio, bi-directional IR signals, and RS-232 over a single category cable, the HDTX-WP provides an affordable, high quality, solution for your audio/video and control needs.

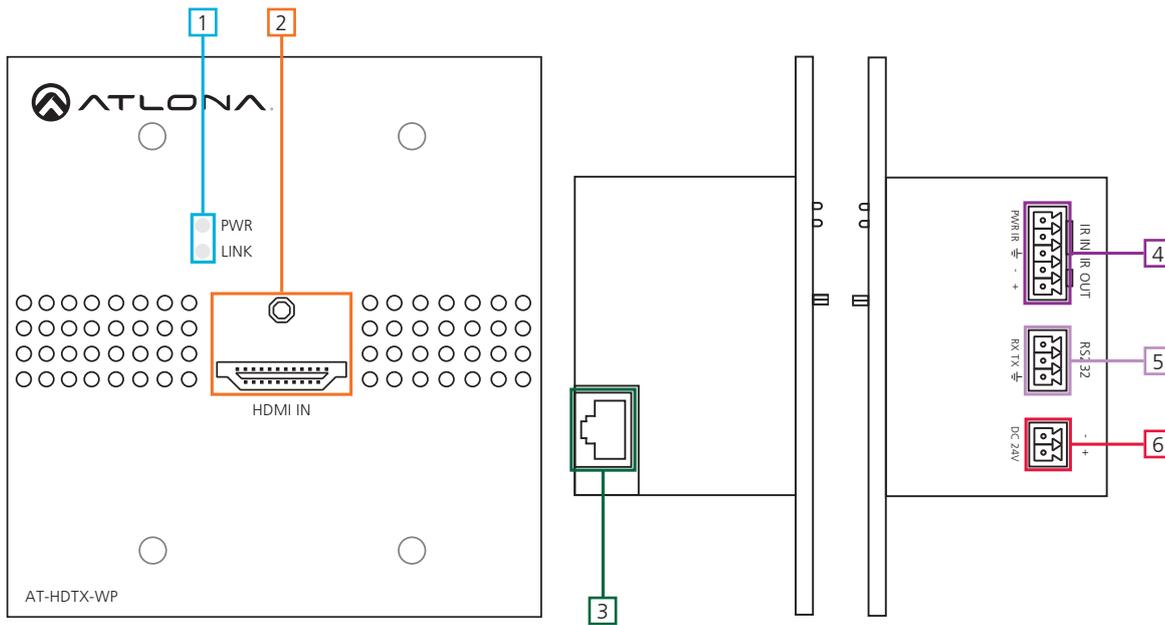
Package Contents

- 1 x AT-HDTX-WP
- 1 x Wall plate cover (US or UK)
- 4 x Screws (US #6)
- 2 x Screws (UK 3.5mm)
- 1 x User manual

Features

- Extends audio/video and control content up to 230ft @ 1080p over a single category cable
- Supports 4Kx2K pass through
- Wall plate form ensures the transmitter is securely mounted where it is easily accessed by sources
- USB updating for easy, in the field, firmware updates
- Captive screw IR I/O ports for emitting and receiving IR control signals for use with IR remote controls and 3rd party control boxes
- Bi-directional captive screw RS-232 pass through
- 3-Way power
 - Power the transmitter with the included power supply
 - Power the transmitter with compatible receivers and matrices
 - Power the receiver with power over category cable (POCC) when connected to the included power supply
- Lossy and lossless multi-channel audio formats pass through (including Dolby TrueHD and DTS-HD Master Audio)
- Full 3D pass through
- HDCP compliant

Panel Description



1. Yellow Link LED: Signal Indicator for the CAT5e/6/7 OUT port. LED will remain solid, unless there is an issue with the cable or signal, then it will blink
Green Power LED: Power indicator. If power is being received steadily the light will remain solid. If the LED starts blinking power is intermittent or there is a problem with the cable. If LED is off, no power is passing to the transmitter (check your outlet or the power cable)
2. HDMI IN Port: Connect to HDMI source
3. CAT5e/6/7 IN Port: Connect a category cable from a compatible transmitter to this port
4. **a.** IR IN Port: Connect the IR receiver to this port
b. IR OUT Port: Connect the IR Emitter to this port
5. RS-232 Port: Bi-directional RS-232, send signal to or from a control system or PC
6. DC 24V Port: Connect the included power cable to this port

NOTE: If receiving power from a compatible HDBaseT receiver or matrix, do not connect the power supply

US and UK Face Plate Change

When switching the product between US and UK face plates, three layers of screws will need to be removed.

First Layer

The first screw that needs removal is the locking screw for the HDMI port.

The top white face plate can be removed once the locking screw has been taken out.

Second Layer

The second set of screws to remove are in the grey tabs attached to the wall plate back box. Remove all 4.

The back box can be removed now.

Third Layer

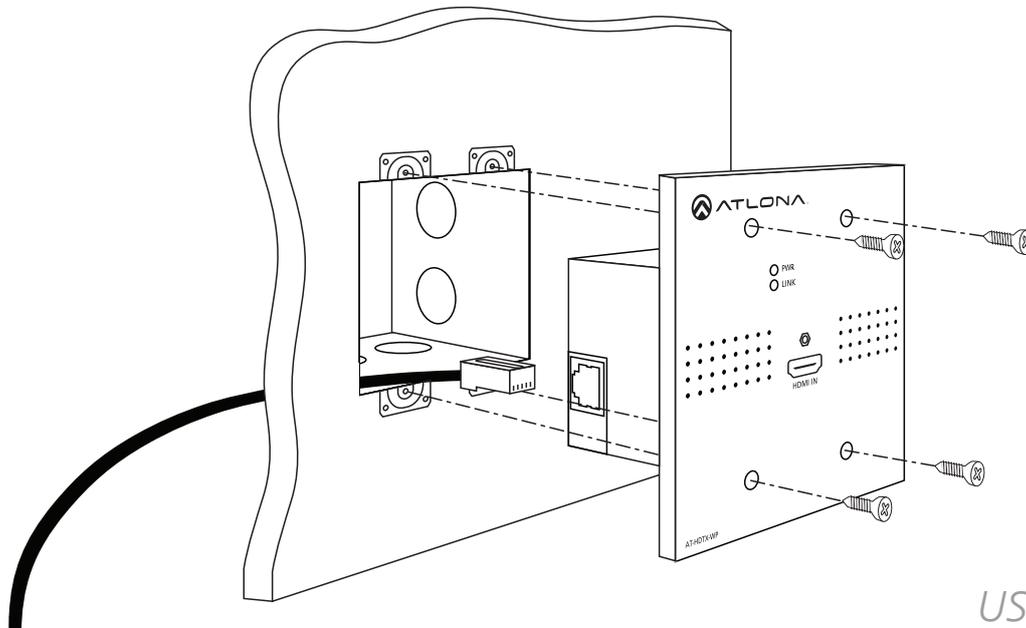
The third set of screws for removal are at the bottom of the PCB boards. Place the grey face plate down and remove the 4 screws from the corner edges. The grey plate is removable now.

Replace the grey and the white face plates with the correct regional face plate starting at layer 3 until layer one has been replaced.

Wall Plate Installation

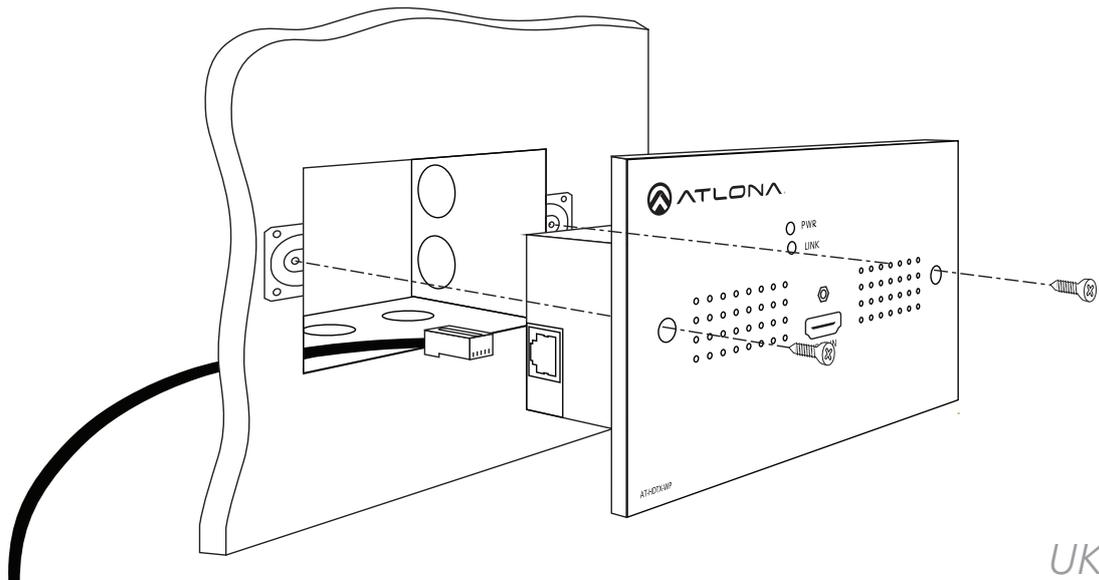
The HDTX-WP will fit in any 2 Gang (US or UK) electrical box or mud ring (that is at least 40mm deep).

Important: To use the power, RS-232, or IR ports on the wallplate a mud ring or 3 gang back box with custom plate will need to be used.



When installing the US version, use the four shorter screws. Thread the screws through the face plate into the back box (as shown above).

Note: Be sure to plug the CAT cable into the back of the wall plate before full installation



The UK wall plate screws will be the longer than the US screws. Thread the screws through the two holes in the UK wall plate and into the back box (as shown above).

Note: Be sure to plug the CAT cable into the back of the wall plate before full installation

Captive Screw

Captive screw connectors are an added feature on the HD Extender. 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.



Clockwise

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

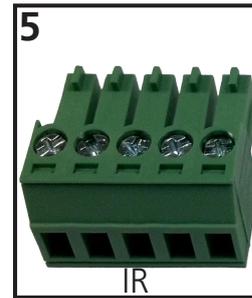
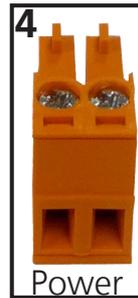


Counter Clockwise

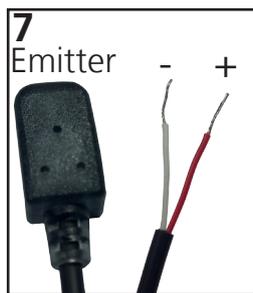
Turn the screws counter clockwise to lower the contact bar to release the wires.



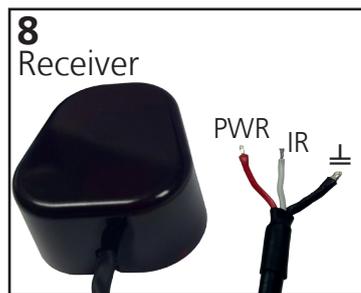
For your convenience the cables do not come pre-terminated. Each item, whether it's an IR receiver (picture 1), IR emitter (picture 2), or power cable (picture 3), will have exposed wires. Each wire is encased in a different colored cover. Female captive screw connectors are included: Power (see picture 4), IR (see picture 5), and RS-232 (see picture 6).



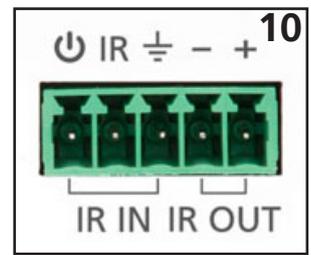
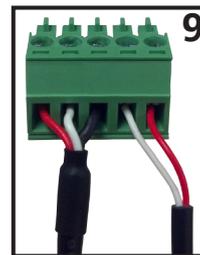
IR pin outs have been included for the included IR emitter and IR receiver (see picture 7 & 8). The wires are colored for each pin (see picture 9 and 10).



White: - Red: +



Red: PWR White: IR Black: \perp



The power pin out (see picture 11) and wire configuration (see picture 12 and 13) are shown below.



Black: - White: +



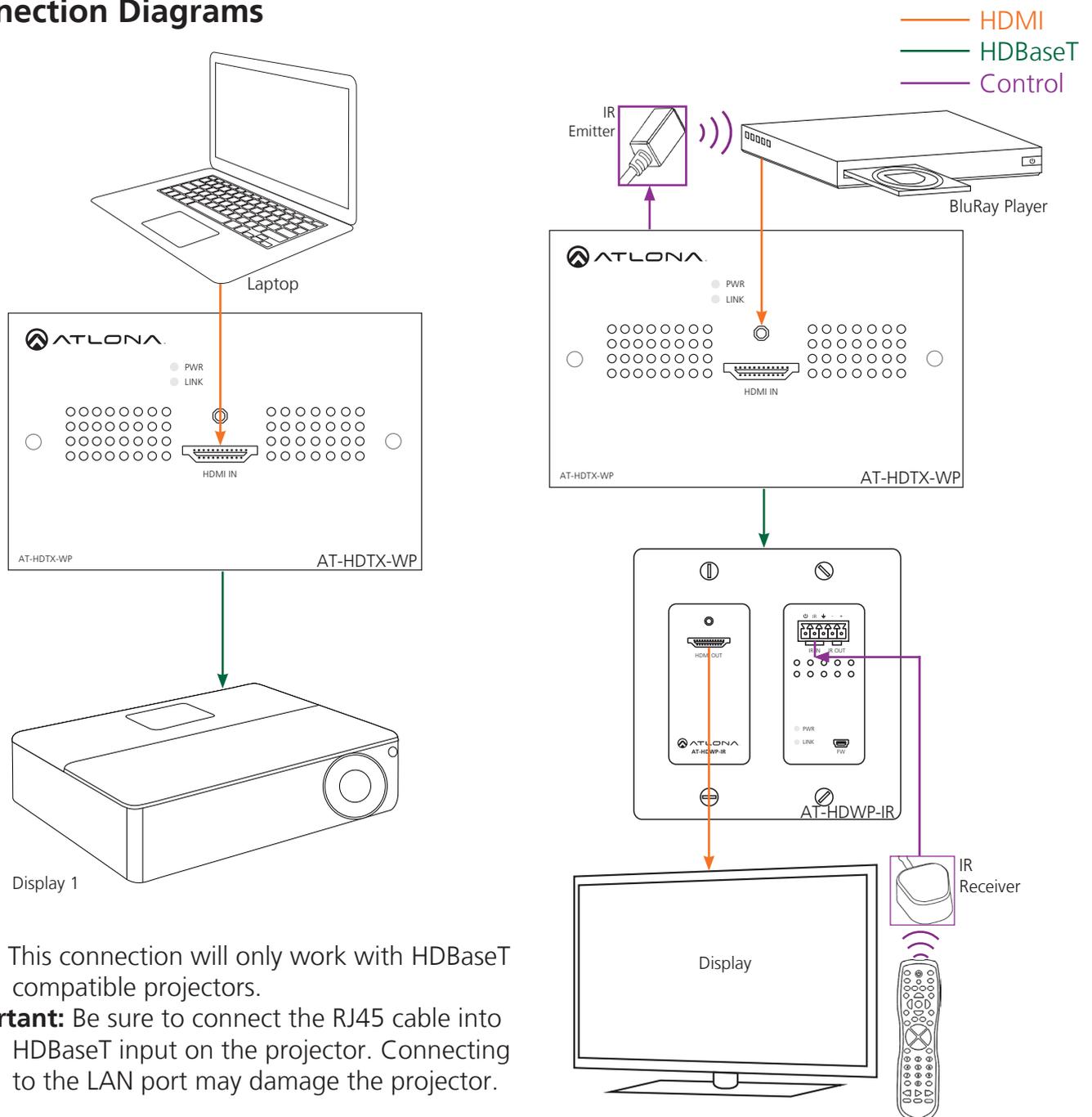
Note: When using the HDVS-RX do not connect a power supply to the HDTX-WP

RS-232 pin out will be determined by the RS-232 cable and will connect as Rx (receiver), Tx (transmitter), and \perp (ground). (See picture 1)



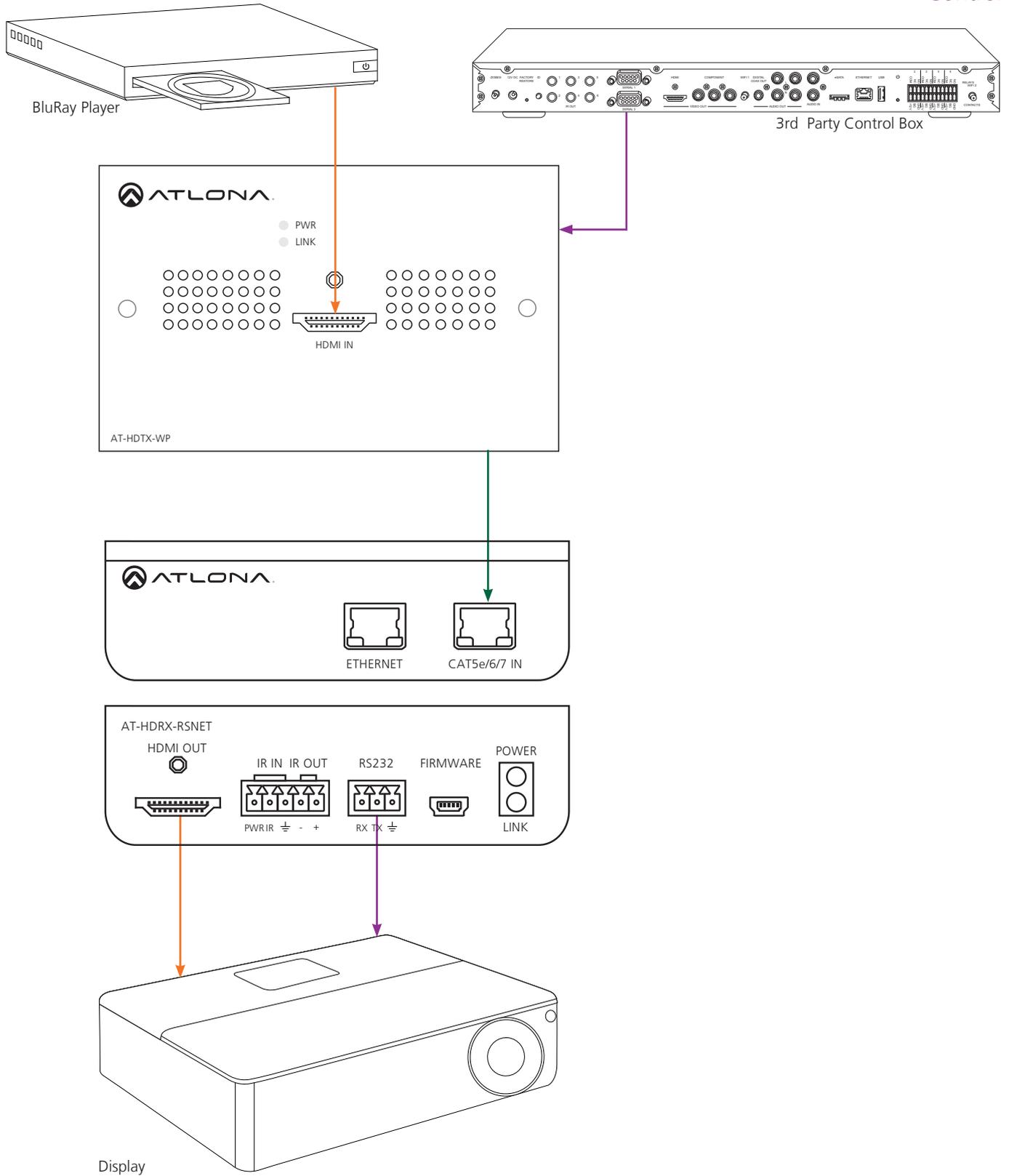
Pin out color will differ per RS-232 cable.

Connection Diagrams



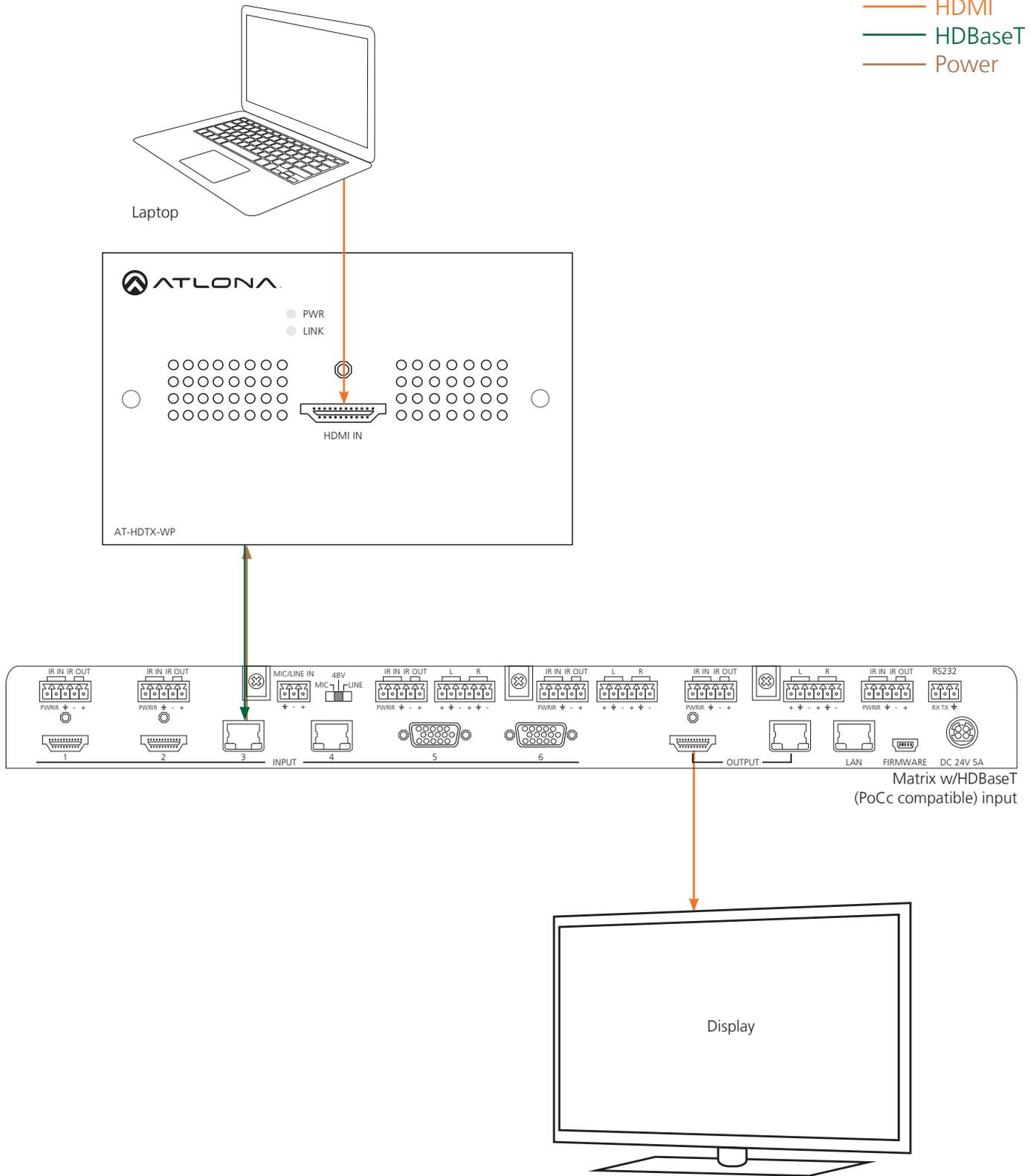
Connection Diagrams Cont.

- HDMI
- HDBaseT
- Control



Connection Diagrams Cont.

- HDMI
- HDBaseT
- Power



Specifications

Bandwidth	10.2Gbps	
Ports AV input AV output IR IN/OUT RS-232 Firmware update Power	1 x HDMI 1 x RJ45 1 x Captive Screw (5 pin) 1 x Captive Screw (3 pin) 1 x Mini USB 1 x Captive Screw (2 pin)	
Power Consumption	up to 10W (varies per paired receiver)	
Audio	Passes up to Dolby TrueHD or DTS-HD Master Audio	
Resolution	Video: up to 4Kx2K VESA: up to 1920x1200@60Hz	
Distance	230ft @ 1080p over CAT6a/7 197ft @ 1080p over CAT5e/6 130ft @ 4Kx2K over CAT5e/6	
Size	2 Gang	
Installation Dimensions (H x W x D)	2.46 x 3.5 x 1.38 inch 62.44 x 89.02 x 35 mm	
Weight	0.49 lbs 0.22 kg	
Temperature	Operating 32°F to 104°F 0°C to 40°C	Storage -4°F to 140°F 20°C to 60°C
HDCP Compliant?	Yes	
Certifications	CE, FCC, RoHS, cULus for power supplies	

Safety Information

Safeguards



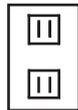
To reduce the risk of electric shock, do not expose this product to rain or moisture



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.

Unplug 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.

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
- OR**
- 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
- OR**
- 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>