

# TP315-103 HDMI OVER POWER EXTENSION CABLE, ANYWIRE TX User's Guide

## Welcome!

Everyone at Altinex greatly appreciates your purchase of the TP315-103. We are confident that you will find it to be reliable and simple to use. If you need support, please do not hesitate to call us at 714-990-2300.

At Altinex, we are committed to developing unique and state of the art Signal Management Solutions® for demanding audiovisual installations. Welcome to the Altinex family of satisfied customers around the world!

## 1. Precautions and Safety Warnings

- Please read this manual entirely before using your TP315-103. You can download a full version of this manual at [www.altinex.com](http://www.altinex.com). These instructions ensure reliable operation and to prevent fire and shock hazards. Please read them carefully and heed all warnings.

### 1.1 General

- Qualified Altinex service personnel or their authorized representatives must perform all service.

### 1.2 Installation Precautions

- To prevent fire or shock, do not expose this unit to water or moisture. Do not place the TP315-103 in direct sunlight, near heaters or heat-radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle carefully; dropping or jarring can cause damage.
- Do not pull any cables attached to the TP315-103.

## 2. Installation Procedures

Note: Download and read the entire online manual to become familiar with the TP315-103 and for detailed installation instructions, including multiple receiver wiring.

Step 1: Connect the TP315-103 Transmitter to the TP315-104 Receiver using a standard AC extension cord. Use a 12 AWG cord if the full 15 A is required at the receiver end.

One transmitter supports up to 4 receivers. Use 4 extension cords plugged into the transmitter or daisy chain the receivers using extension cords. Do NOT exceed 4 receivers from a single transmitter.

Step 2: Connect the TP315-103 to power using the attached power cord.

Step 3: Connect the source HDMI video (computer, Blu-ray, videoconference, etc.) to the HDMI input on the TP315-103 using the HDMI cable provided.

Step 4. The AnyWire transmitter is now operating. Once the receiver is detected, video is displayed automatically.

Step 5. A display may be connected to the HDMI output on the TP315-103 for use as a local display.

Step 6. The AnyWire Transmitter/Receiver pair allows IR pass-through from the receiver (far side) to the transmitter (near side). An IR emitter is included with the TP315-103 and may be connected to the HDMI source allowing control from a remote control connected to the receiver on the far side of the AnyWire installation. The AnyWire receiver includes an IR receiver.

## 3. Warranty and Return Policies

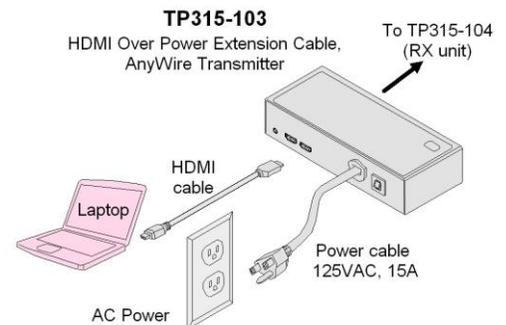
Please visit the Altinex website at [www.altinex.com](http://www.altinex.com) for details on warranty and return policies. In the case of a unit needing repair, please complete a RMA (return material authorization) form by clicking the Warranty link located on the bottom of the Altinex homepage. Once completed, please email the form to [support@altinex.com](mailto:support@altinex.com).

## 1.3 Cleaning

- Clean the TP315-103 with a dry cloth only. Never use strong detergents or solvents such as alcohol or thinner.

## 1.4 FCC Notice

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 2 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions found herein, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.
- Any changes or modifications to the unit not expressly approved by Altinex, Inc. could void the user's authority to operate the equipment.



## 4. Technical Specifications

Specifications are subject to change due to design improvements. Please see [www.altinex.com](http://www.altinex.com) for up to date information.

Features/Description	TP315-103
<b>Input Connectors</b>	
Digital Video + Audio	HDMI F, Type A (1)
AC Power (9 ft. cord attached)	NEMA 5-15P (1)
<b>Output Connectors</b>	
Digital Video + Audio	HDMI F, Type A (1)
AnyWire Video + VAC	NEMA 5-15R (4)
IR (from receiver side)	3.5 mm Audio F (1)
<b>Compatibility</b>	
Signal types	HDMI
Signal resolutions	720p, 1080i, and 1080p
<b>Accessories Included</b>	
HDMI Cable	n/a
IR Emitter	n/a

Table 1. TP315-103 General

Mechanical	TP315-103
Material	Aluminum
Color	Black
Height	1.96 in (50 mm)
Width	8.44 in (214 mm)
Depth	3.55 in (90 mm)
Weight	1.0 lbs. (0.45 kg)
T° Operating	10°C-45°C
Humidity	90% non-condensing
MTBF (calc.)	38,000 hrs.

Table 2. TP315-103 Mechanical

Electrical	TP315-103
<b>Input Signals</b>	
Digital Video + Audio	HDMI Standard
<b>Output Signals</b>	
Digital Video + Audio	AnyWire + VAC
<b>Power Consumption (AnyWire only)</b>	
Internal Power:	600 mA (5.4 W)

Table 3. TP315-103 Electrical

## 5. About Your TP315-103

- HDMI over AC-extension cord
- Automatic input/receiver detection
- HDMI resolutions 720p, 1080i, and 1080p
- Transmission up to 100 ft. (30 m)
- IR pass-through control
- Local monitor output
- Attached 9 ft. AC input cord

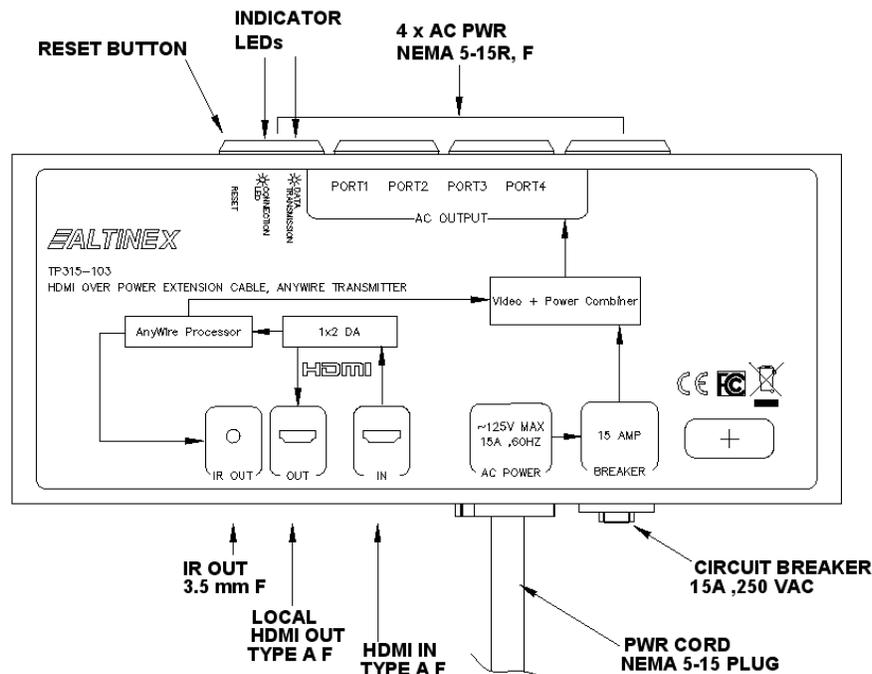
The TP315-103 HDMI over AnyWire transmitter allows the transmission of 1080P HDMI signals up to 100 ft. (30 m) using a standard AC extension cord. A single transmitter may drive up to 4 receivers using either 4 individual extension cords from the transmitter, or by daisy chaining the receivers. The only restriction being the extension cords from the transmitter to each receiver cannot be bundled together as crosstalk occurs.

The TP315-103 is a simple and economical solution for many audiovisual installations. The AC extension cord makes installation easy without the need to cut and splice wires and install expensive connectors or purchase costly cables. Simply route the extension cords, connect the AnyWire receiver AC cords to the extension cord, and then plug the TV into the receiver. That's it!

The unique design of the AnyWire Transmitter provides stable video transmission over greater distances than other designs. IR pass-through for receiver side to transmitter side control is provided without corrupting the HDMI signal during transmission of IR signals.

Operation does not require any user control or interaction. Simply connect the HDMI input and the transmitter scans for the receiver and when detected automatically pairs to the receiver and begins video transmission.

A local video output is provided to support a local monitor. The local monitor allows the user on the transmitter side to know what is being presented on the far side of the installation. One of the AC receptacles on the transmitter can be used to power the local monitor if only 3 receivers are being used or if the receivers are daisy-chained at the far end.



## 6. Application Diagrams

### Diagram 1: Typical Setup

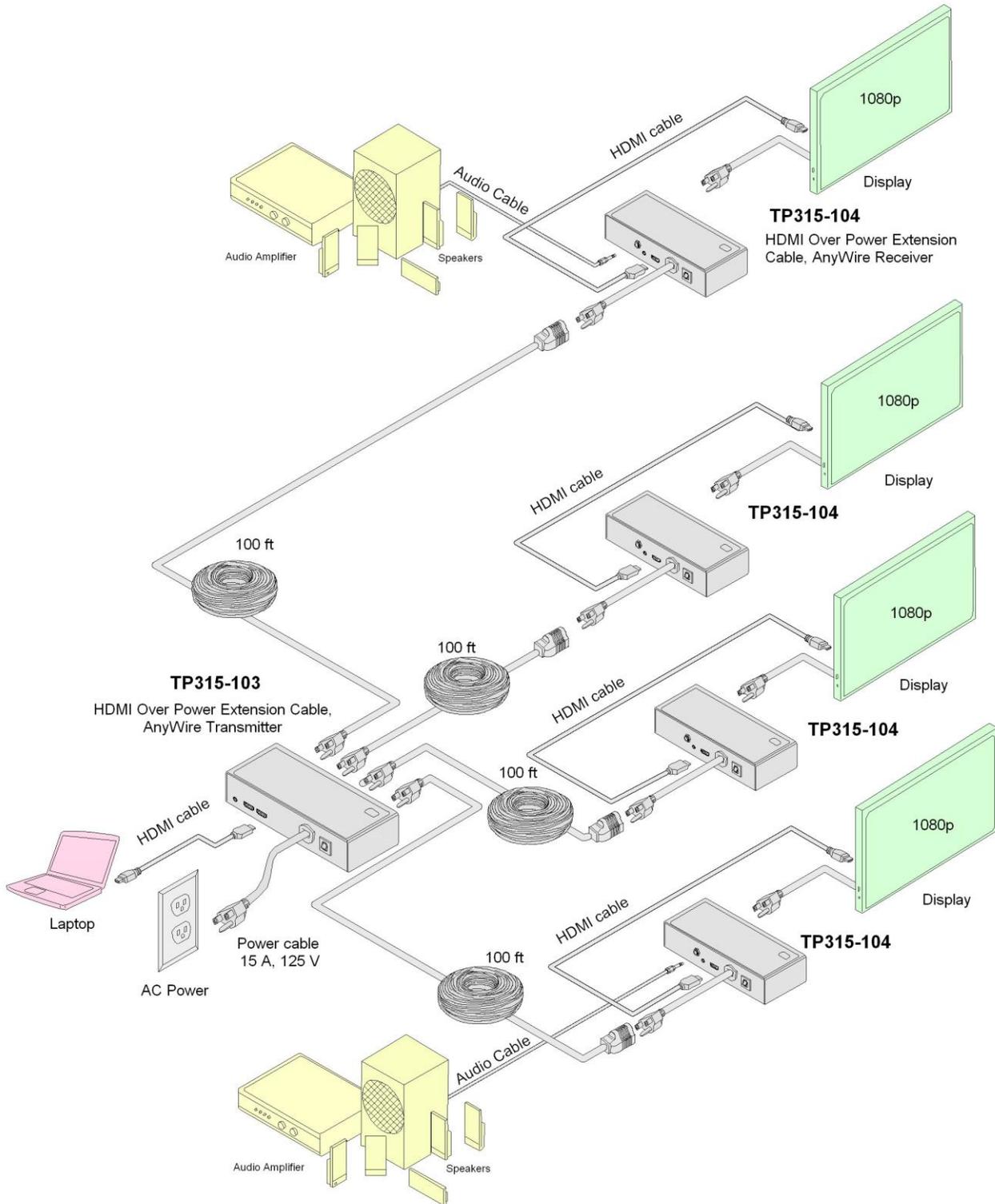


Diagram 2: Internal View

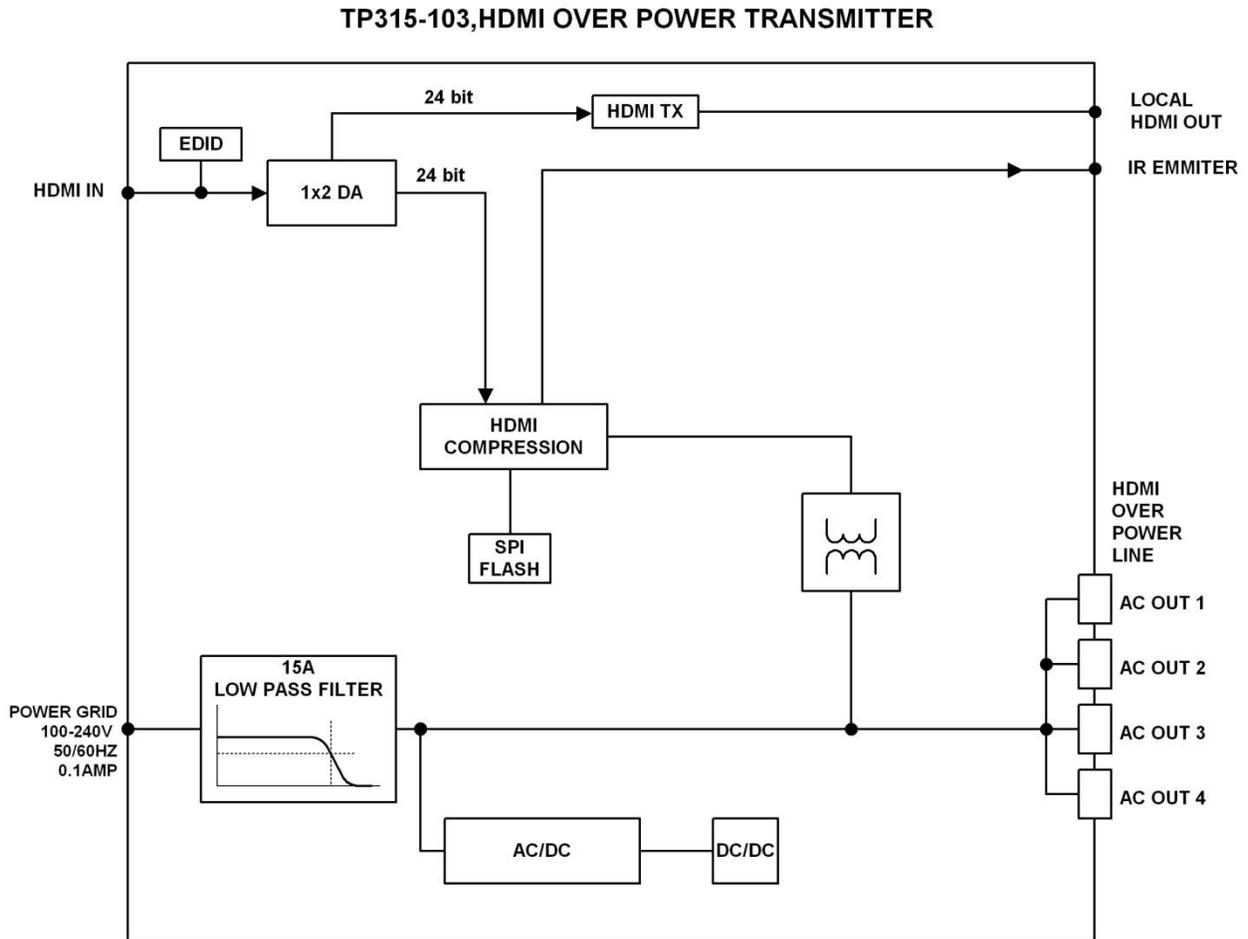


Diagram 3: Dimensions

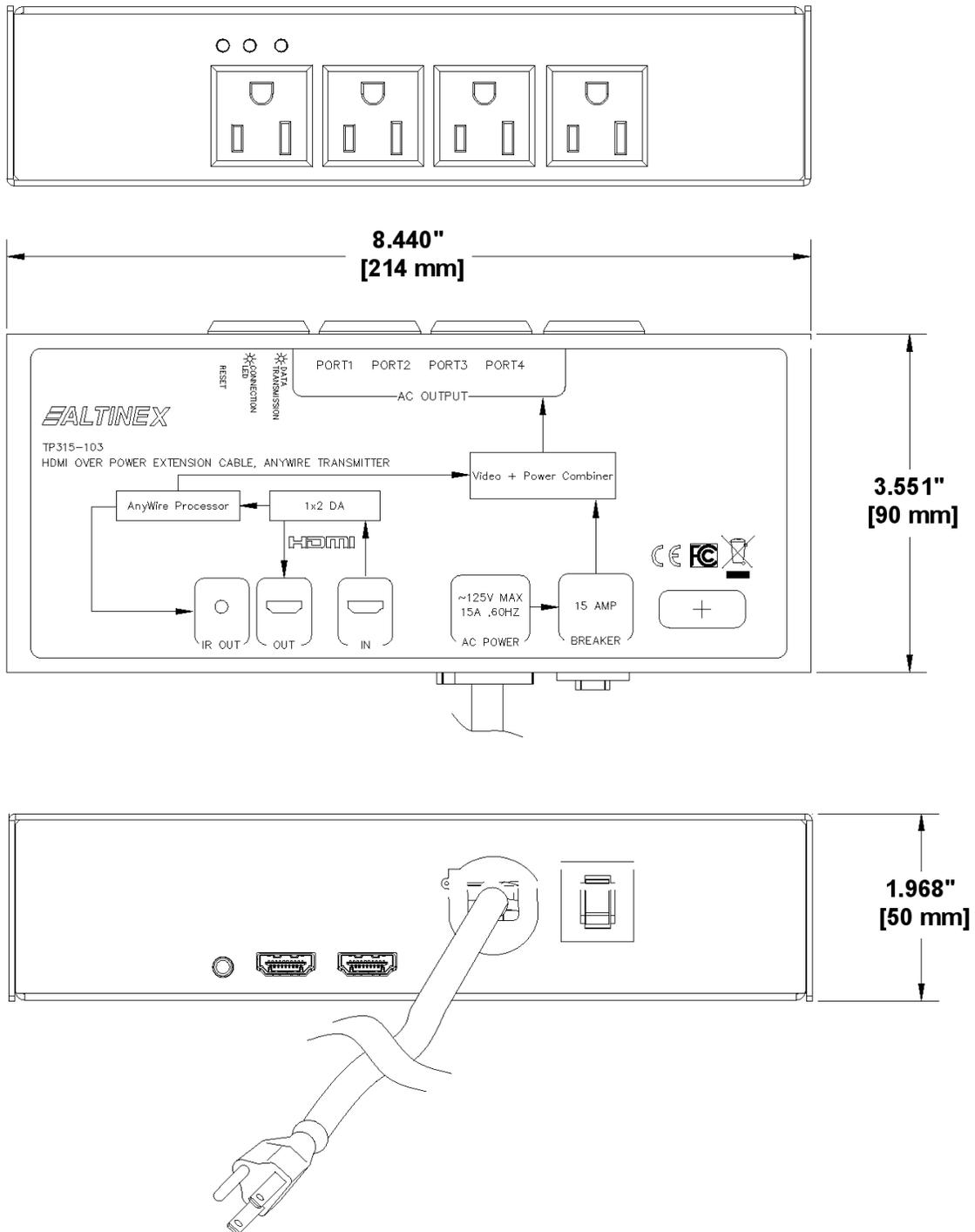
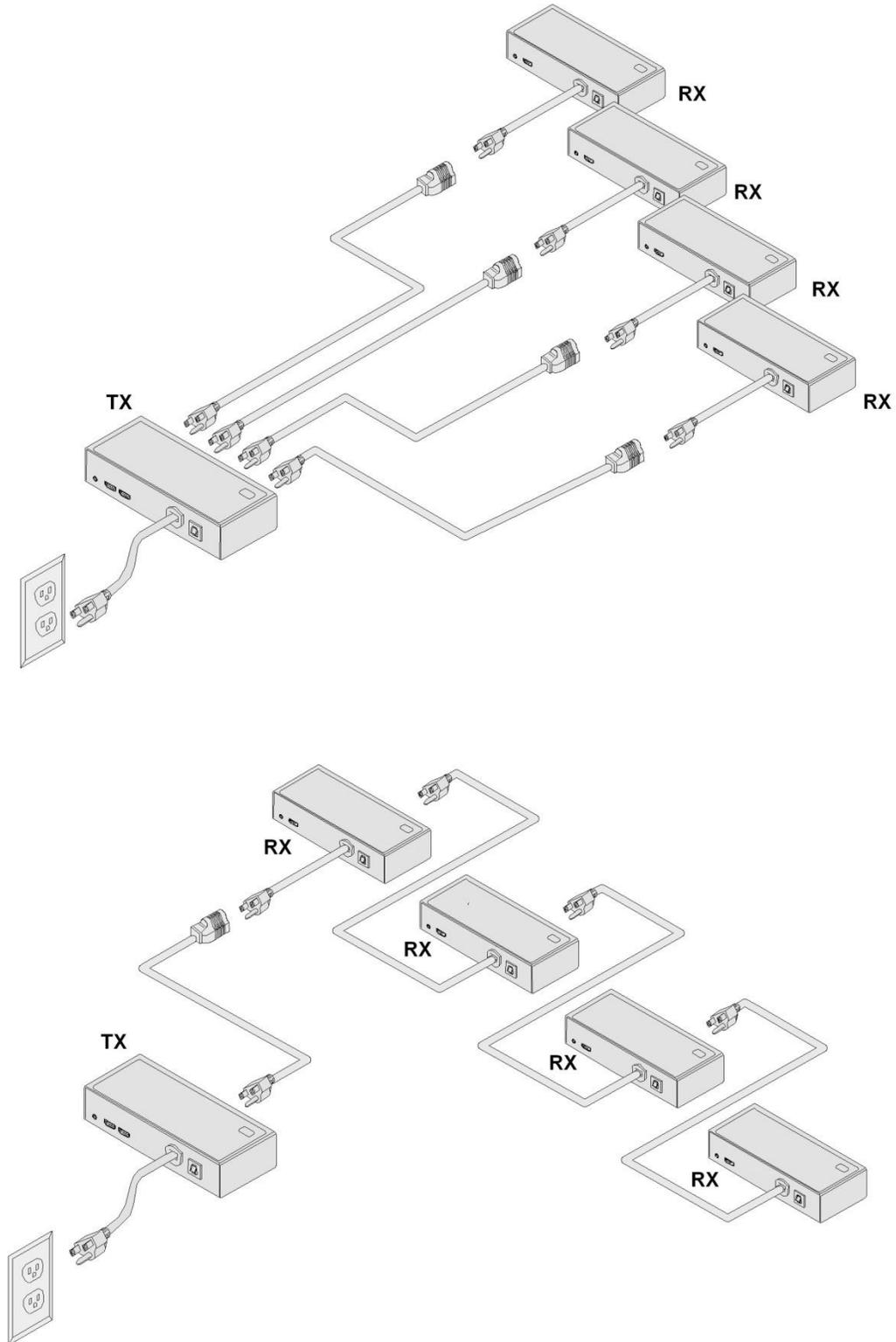


Diagram 4: Multiple Receiver Setup



## 7. Operation

The TP315-103 requires no adjustments for performance. Once set-up, the TP315-103 AnyWire Transmitter will work trouble-free without user intervention.

### 7.1 Reset Button

A reset button is provided on the side of the unit to allow a forced reset without having to disconnect power. Use this only if there are problems connecting to the receiver; typically, after a new display is installed or after a power outage.

## 8. Troubleshooting Guide

We have carefully tested and have found no problems in the supplied TP315-103. However, we would like to offer suggestions for the following:

AnyWire	
Symptom	Resolution
LEDs on Are Off	<p>The unit may not be receiving power.</p> <ol style="list-style-type: none"> <li>1. Make sure the power adapter is plugged into a working AC outlet.</li> <li>2. Use only the power adapter provided.</li> <li>3. The Connected LED should be on and green.</li> </ol>
Data Transmission LED is flashing very slow	<p>The transmitter and receiver are not communicating.</p> <ol style="list-style-type: none"> <li>1. Make sure the receiver is powered on.</li> <li>2. Press the reset button on the side of the unit or reset power to force the transmitter to try and re-establish a connection.</li> </ol>
No Display	<p>The HDMI input signal may be missing.</p> <ol style="list-style-type: none"> <li>1. Check the source and make sure there is a signal present.</li> <li>2. Make sure the source resolution is set to 720p, 1080i, or 1080p.</li> <li>3. Make sure the monitor is turned on.</li> <li>4. Verify the monitor is connected to the TP315-104 Receiver's HDMI output</li> <li>5. Make sure the monitor's correct HDMI input number is selected.</li> </ol>
Poor Output Image	<ol style="list-style-type: none"> <li>1. The source resolution may not be compatible with the projector or other display device. Try other resolutions from the source.</li> <li>2. The source and display may not be compatible. Connect the source directly to the input of the projector or other display device. If the image is poor the devices may be incompatible.</li> <li>3. If using multiple receivers, make sure that the transmission lines are not bundled together at any point in the transmission. If the cables are bundled (zip tied together) this causes crosstalk between the different channels and can result in image problems.</li> </ol>