

TE PSB-1: Voice Assistant Balun

Warranty

This product is guaranteed against defects in material and workmanship for three (3) years from the date of purchase. Misuse, abuse, or modification of the internal components void any warranty. Any connection of this device to signal levels in excess of industry standards for Line-Level Audio or use of any Power Supply in excess of 5.3 VDC, will void the warranty. The rating of the IR-Pass Thru connections may not exceed 65 Volts AC or DC, at 1.5 Amps.

For Technical Assistance:

Tel. **781-769-6410**

Email: info@transformativeengineering.com

Transformative Engineering

194 Vanderbilt Ave.
Norwood, MA 02062



781-769-6410

TransformativeEngineering.com



Thank you for choosing **Transformative Engineering** products. We strive to create the highest quality, most useful products for the Systems Integration Industry. We hope you will find this product helps your installations perform better. We also try to make every product fully-featured, so your stocking and specifying requirements are simplified. Please follow these instructions for installation. Should you have any questions or concerns, do not hesitate to contact us directly.



781-769-6410

TransformativeEngineering.com

Description

This **Analog Balun** system provides for conversion of Stereo Analog Audio over (1) Category 5 or CAT6 (UTP) cable. We also provide a pathway to remotely power a Voice Activated device (such as an Amazon Alexa™ “Dot”* or similar device). This power path is designed specifically for a 5.3V Power Supply and we regulate and maintain the voltage over our rated operational distance. In addition, a single IR (or other use) pass-thru connection is provided. **These Baluns must be used in pairs.** They are single-ended, designated devices and are **NOT** interchangeable at either end. These are powered devices, requiring the use of the power supply which is included with the Voice Activated device.

The audio transformers used in this product are high quality, audiophile-grade, and will provide exceptional audio reproduction over a long length (up to 100 Meters) of inexpensive, UTP wire.



*Alexa and the Amazon Echo DOT are registered trademarks of Amazon, Inc.

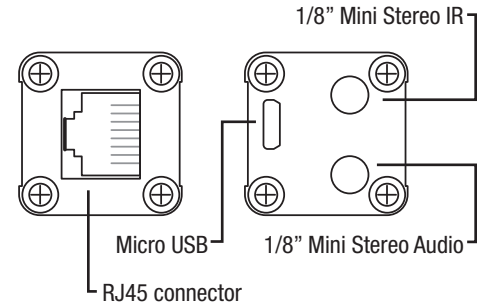
Installation

 Refer to Diagram #1 for details:

Simply plug the “DEVICE” designated half of the PSB-1 balun pair to the Voice Activated device (Alexa™ “Dot”) with the supplied Micro USB-to-Micro USB cable. Then connect the 1/8” Mini Stereo-to-1/8” Mini Stereo cable between the Voice Activated device’s “Audio OUT” jack and our PSB-1 “Audio IN” jack. Connect the “AMPLIFIER” designated half of the PSB-1 balun into your stereo amplifier with the supplied Mini-to-Stereo audio cable (supplied). Lastly, connect the 5.3-Volt Power Supply that came with the Voice Activated device to the “Power IN” jack on the “AMPLIFIER” designated balun and plug the Power Supply into your wall outlet. The PSB-1 balun pair is connected via a CAT5 or CAT6 cable, terminated with RJ45 connectors between the two. We recommend T-568 “B” type wiring of the connectors. Additionally, you may connect an IR transmitter into the source PSB-1 Mini-Plug, with the destination PSB-1 IR Output connected to an IR emitter. Alternatively, this 2-conductor pathway may be used for any DC coupled purpose such as a relay or indicator lamp. Please be advised that the limitation of this path is 65 Volts AC or DC at a maximum of 1.5A current.

Diagram #1:

Device:



Amplifier:

