



Alfatron Electronics GmbH Germany
www.alfatronelectronics.com
ALF – TPA33
Audio Extender over CAT6



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Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to the real product.

This manual is only for operational instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated May 2021. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

FCC Statement

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.



Do not dispose of this product with the normal household waste at the end of its life cycle. Return it to a collection point for the recycling of electrical and electronic devices. This is indicated by the symbol on the product, user manual or packaging. The materials are reusable according to their markings. By reusing, recycling or other forms of utilisation of old devices you make an important contribution to the protection of our environment. Please contact your local authorities for details about collection points.

Introduction

The Alfatron TPA33 is an audio extender set that includes one Transmitter and one Receiver. It is designed to extend a stereo analog audio signal up to 170m and extend an Optical/Coax digital audio up to 290m via CAT6 cable.

Features

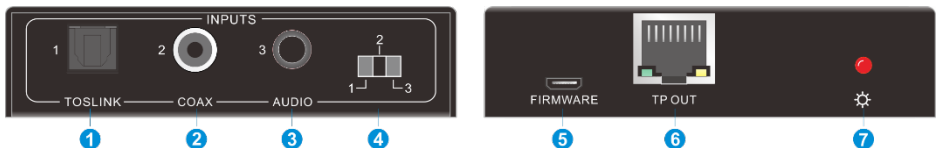
- Select from one of three different audio inputs: Optical, Coax and Analog Stereo.
- Simultaneous audio to three different outputs: Optical, Coax and Analog Stereo.
- Digital audio signals can be converted into analog signals, and analog audio signals can be converted into digital audio signals.
- Connect power only at the receiver end as the transmitter is powered over the CAT6 cable (12V PoC).
- The transmission distance of analog stereo audio can up to 170 meters, and the digital Optical/Coax audio up to 290m over CAT6 cable.

Package List

- 1x Transmitter
- 2x TX Mounting Ears with 2 Screws
- 4x TX Plastic Cushions
- 1x Power Adapter (12VDC, 1A)
- 1x Receiver
- 2x RX Mounting Ears with 2 Screws
- 4x RX Plastic Cushions
- 1x User Manual

Panel Description

Transmitter



- ① TOSLINK: Optical digital audio input, connects to an audio source.
- ② COAX: Coax digital audio input, connects to an audio source.
- ③ AUDIO: Analog stereo audio input, connects to an audio source.
- ④ 3-pin DIP switch for audio input source selection.
- ⑤ FIRMWARE: Micro-USB port for firmware upgrade.
- ⑥ TP OUT: Connects to the TP IN port of receiver via CAT6 cable.

⑦ POWER LED: Illuminates red when the device is powered on.

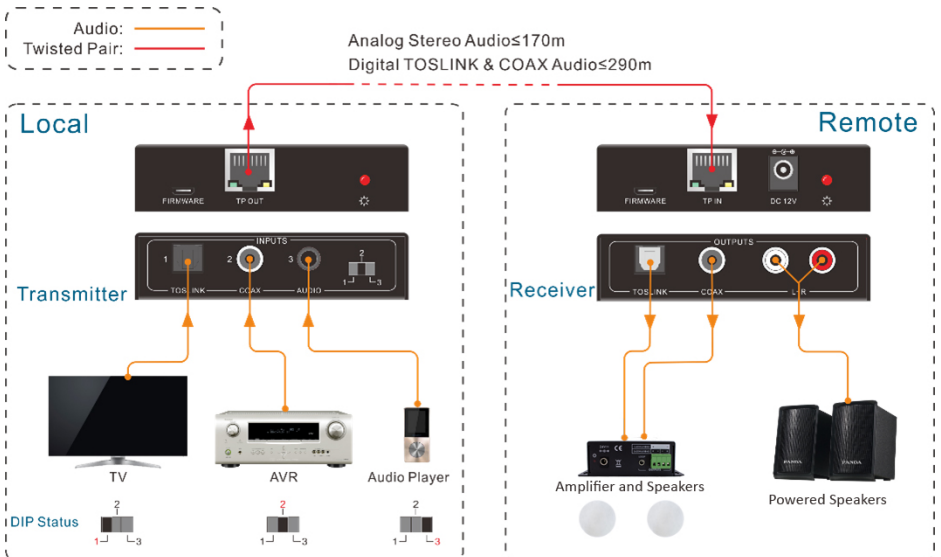
Receiver



- ① TOSLINK: Optical digital audio output, connects to an audio playback device.
- ② COAX: Coax digital audio output, connects to an audio playback device.
- ③ L+R: Stereo analog audio output, connects to an audio playback device.
- ④ FIRMWARE: Micro-USB port for firmware upgrade.
- ⑤ TP IN: Connects to the TP OUT port of transmitter via CAT6 cable.
- ⑥ DC 12V: DC port for power adapter connection.
- ⑦ POWER LED: Illuminates red when the device is powered on.

Note: The Optical, Coax and stereo audio outputs simultaneously output the same audio source.

System Diagram



Specification

Transmitter	
Input	(1) TOSLINK, (1) COAX, (1) AUDIO (Stereo)
Input Connector	(1) Toslink, (1) Black RCA, (1) 3.5mm jack
Output	(1) TP OUT
Output Connector	(1) RJ45
Control	(1) FIRMWARE
Control Connector	(1) Micro USB
Receiver	
Input	(1) TP IN
Input Connector	(1) RJ45
Output	(1) TOSLINK, (1) COAX, (1) L+R (RCA)
Output Connector	(1) Toslink, (1) Black RCA, (1) Red & White RCA
Control	(1) FIRMWARE
Control Connector	(1) Micro USB
General	
Input Audio Format	TOSLINK: PCM, Dolby, DTS COAX: PCM, Dolby, DTS AUDIO: Stereo
Output Audio Format	TOSLINK: PCM, Dolby, DTS COAX: PCM, Dolby, DTS L+R: Stereo
Sound Channel	TOSLINK: 2.0~7.1 COAX: 2.0~7.1
Frequency Response	All audio: 20Hz ~ 20kHz, ± 3 dB
Sample Rate	TOSLINK: 48k/96k/192k 16bit/18bit/24bit COAX: 48k/96k/192k 16bit/18bit/24bit
Transmission Distance	Stereo audio: Up to 170m (CAT6) TOSLINK/COAX audio: Up to 290m (CAT6)
Power Consumption	2.5W (max)
Operation Temperature	0 ~ +40°C
Storage Temperature	-10 ~ +50°C
Relative Humidity	0% ~ 90%
External Power Supply	Input: 100VAC~240VAC, 50/60Hz; Output: 12VDC 1A
Dimension (W*H*D)	88mm x 21.5mm x 80mm
Net Weight (g)	Transmitter: 110g, Receiver: 120g

1. After-sales Service

Should you experience problems using the ALF-TPA33, please contact us and note that any transport costs of the equipment to the distributor are borne by the user during the warranty.

1) Product Limited Warranty: Alfatron warrants that its products will be free from defects in materials and workmanship for **seven years**, which starts from the first day of purchase.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the warranty period must be presented to obtain warranty service.

2) What the warranty does not cover (servicing available for a fee):

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration, or malfunction caused by:
 - Normal wear and tear.
 - Use of supplies or parts not meeting product specifications.
 - No certificate or invoice as the proof of warranty.
 - The product model showed on the warranty card does not match with the product or if the product had been altered.
- Damage caused by force majeure.
- Servicing not authorized by Alfatron.
- Any other causes which do not relate to a product defect.
- Delivery, installation or labour charges for installation or setup of the product.

3) Technical Support: Contact our after-sales department at

www.alfatronelectronics.com

Limited warranty in respect of Alfatron Products Only

1.1 This limited warranty covers defects in materials and workmanship in this product.

1.2 Should warranty service be required, proof of purchase must be presented to the Company. The serial number on the product must be clearly visible and not have been tampered with in any way whatsoever.

1.3 This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any 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 the Company to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover equipment enclosures, cables or accessories used in conjunction with this product.

This limited warranty does not cover the cost of normal maintenance. Failure of the product due to insufficient or improper maintenance is not covered.

1.4 The Company does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

1.5 Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

1.6 Unless otherwise specified, the goods are warranted in accordance with the manufacturer's product specific warranties against any defect attributable to faulty workmanship or materials, fair wear and tear being excluded.

1.7 This limited warranty only covers the cost of faulty goods and does not include the cost of labor and travel to return the goods to the Company's premises.

1.8 In the event of any improper maintenance, repair or service being carried out by any third persons during the warranty period without the Company's written authorization, the limited warranty shall be void.

1.9 A 7 (seven) year limited warranty is given on the aforesaid product were used correctly according to the Company's instructions, and only with the use of the Company's components.

1.10 The Company will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

1.10.1 Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition.; or

1.10.2 Replace this product with a direct replacement or with a similar product deemed by the Company to perform substantially the same function as the original product; or

1.10.3 Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

1.11 The Company is not obligated to provide the Customer with a substitute unit during the limited warranty period or at any time thereafter.

1.12 If this product is returned to the Company this product must be insured during shipment, with the insurance and shipping charges prepaid by the Customer. If this product is returned uninsured, the Customer assumes all risks of loss or damage during shipment. The Company will not be responsible for any costs related to the removal or reinstallation of this product from or into any installation. The Company will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

1.13 Please be aware that the Company's products and components have not been tested with competitor's products and therefore the Company cannot warrant products and/or components used in conjunction with competitor's products.

1.14 The appropriateness of the goods for the purpose intended is only warranted to the extent that the goods are used in accordance with the Company's installation, classification, and usage instructions.

1.15 Any claim by the Customer which is based on any defect in the quality or condition of the goods or their failure to correspond with specification shall be notified in writing to the Company within 7 days of delivery or (where the defect or failure was not apparent on reasonable inspection by the Customer) within a reasonable time after discovery of the defect or failure, but, in any event, within 6 months of delivery.

1.16 If delivery is not refused, and the Customer does not notify the Company accordingly, the Customer may not reject the goods and the Company shall have no liability and the Customer shall pay the price as if the goods had been delivered in accordance with the Agreement.

1.17 THE MAXIMUM LIABILITY OF THE COMPANY UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT.