User Manual

EXT-AU313-TP

Audio Extender

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Version: EXT-AU313-TP_2020V1.0

Statement

Read this user manual carefully before using this product. Pictures shown in this manual are for reference only, different model and specifications are subject to real product. This manual is for operation instruction only, not for any maintenance usage. The functions described in this version are updated by March 2020. In the constant effort to improve our product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

Safety Precaution

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with good ventilation.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Refer all servicing to qualified service personnel.

Customer Service

We provide limited warranty for the product within three years counting from date of purchase (The purchase invoice shall prevail).

Introduction

The EXT-AU313-TP 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 an CATx cable.
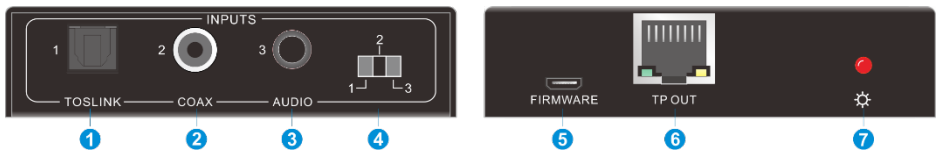
Features

- Three selectable audio inputs: Optical, Coax and Analog Stereo.
- Simultaneous audio to three different output: 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 -the transmitter is powered over the CATx cable (PoC).
- The transmission distance of analog stereo audio can up to 170 meters, and the digital Optical/Coax audio up to 290m over an CATx 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

Transmitter Panel Description

① TOSLINK: Optical digital audio input, connects to audio source.

② COAX: Coax digital audio input, connects to audio source.

③ AUDIO: Analog stereo audio input, connects to 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 CATx cable.

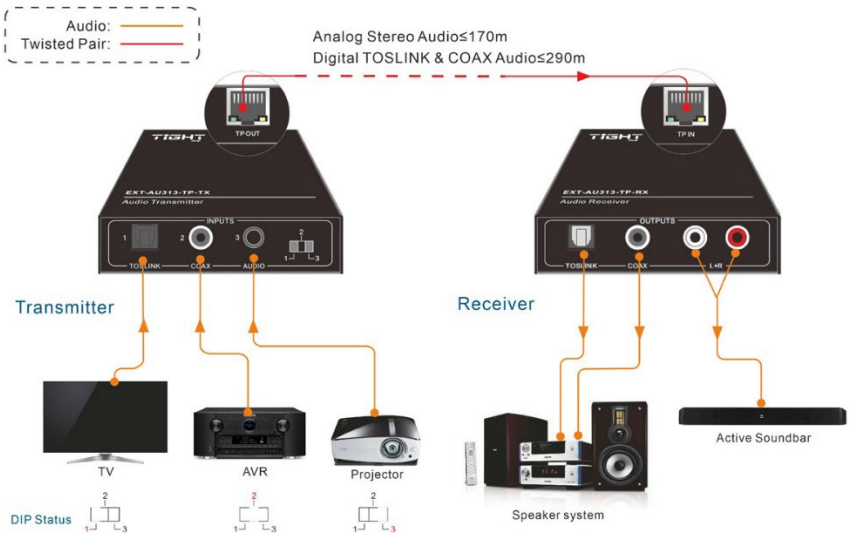⑦ POWER LED: Illuminates red when the device is powered on.

Receiver Panel Description

① TOSLINK: Optical digital audio output, connects to audio playback device.

② COAX: Coax digital audio output, connects to audio playback device.

③ L+R: Stereo analog audio output, connects to audio playback device.

④ FIRMWARE: Micro-USB port for firmware upgrade.

⑤ TP IN: Connects to the TP OUT port of transmitter via CATx 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

Specifications

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, ±3dB
Sample Rate	TOSLINK: 48k/96k/192k 16bit/18bit/24bit COAX: 48k/96k/192k 16bit/18bit/24bit
Transmission Distance	Stereo audio: Up to 170m (CATx) TOSLINK/COAX audio: Up to 290m (CATx)
Power Consumption	2.5W (max)
Operation Temperature	0 ~ +40℃
Storage Temperature	-10 ~ +50℃
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