LINK

EXT100-eARC.2

100M HDMI™ ARC/eARC & S/PDIF Audio Extender
100M @ CAT6/6a, 70M @ CAT5E

RECEIVER

SERVICE

EXT100-eARC.2

100M HDMI™ ARC/eARC & S/PDIF Audio Extender
100M @ CAT6/6a, 70M @ CAT5E

TRANSMITTER

SERVICE

S/PDIF   eARC

LINK EXT100-eARC.2
100m HDMI ARC/eARC Audio Extender

Version: V1.0.0

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Contents

Introduction

Overview

This Audio Extender can transmit both HDMI eARC and S/PDIF audio signals over a single CAT cable. The transmission distance is up to 100m/328ft. It supports CEC pass-through between HDMI eARC input port and eARC output port to handshake for eARC transmission. For TVs without HDMI eARC function, the extender provides an independent S/PDIF audio pass-through channel to transmit S/PDIF audio from the S/PDIF IN port of the transmitter to the S/PDIF OUT port of the receiver. This is a fantastic plug and play solution for sending HDMI eARC and S/PDIF audio from an HDTV back to an amplifier, AVR or multi-room audio system.

Features

- Extend HDMI eARC or S/PDIF audio signal up to 100m/328ft over a single CAT cable
- Support CEC pass-through when HDMI eARC mode is enabled
- Support the following audio formats:
- eARC: PCM 2.0/5.1/7.1ch, DD, DD+, DTS, Dolby TrueHD, DTS-HD MA, Dolby Atmos
- ARC: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
- S/PDIF: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
- Support bi-directional PoC (Power over Cable) function
- Compact design for easy and flexible installation
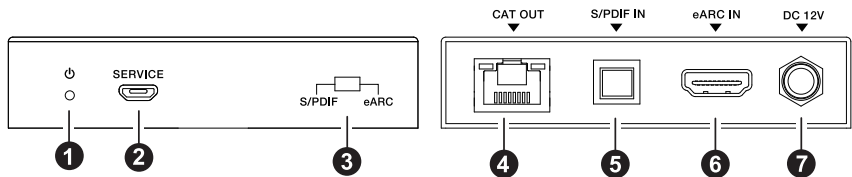
Package Contents

- 1 × HDMI Audio Extender (Transmitter)
- 1 × HDMI Audio Extender (Receiver)
- 1 × 12V/1A Locking Power Adapter
- 1 × User Manual

Specifications

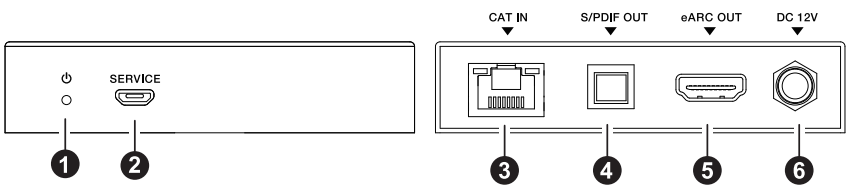| Technical	
Supported Audio Formats	eARC: PCM 2.0/5.1/7.1ch, DD, DD+, DTS, Dolby TrueHD, DTS-HD MA, Dolby Atmos ARC: PCM 2.0CH, Dolby 5.1CH, DTS 5.1CH S/PDIF: PCM 2.0CH, Dolby 5.1CH, DTS 5.1CH
Transmission Distance	100m/328ft
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connection	
Transmitter	Input: 1 × S/PDIF IN [Optical Audio Jack] 1 × eARC IN [HDMI Type A, 19-pin female] Output: 1 × CAT OUT [RJ45, female] Control: 1 × SERVICE
Receiver	Input: 1 × CAT IN [RJ45, female] Output: 1 × S/PDIF OUT [Optical Audio Jack] 1 × eARC OUT [HDMI Type A, 19-pin female] Control: 1 × SERVICE
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter/Receiver: 90mm[W] × 72mm[D] × 20mm[H]
Weight	Transmitter/Receiver: 184g
Power Supply	Input: AC 100~240V 50/60Hz Output: DC 12V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	5.65W (Max)
Operating Temperature	0°C~40°C / 32°F~104°F
Storage Temperature	-20°C~60°C / -4°F~140°F
Operating Humidity	-20°C~60°C / -4°F~140°F
Relative Humidity	20%~90% RH (non-condensing)

Operation Controls and Functions

5.1 Transmitter Panel

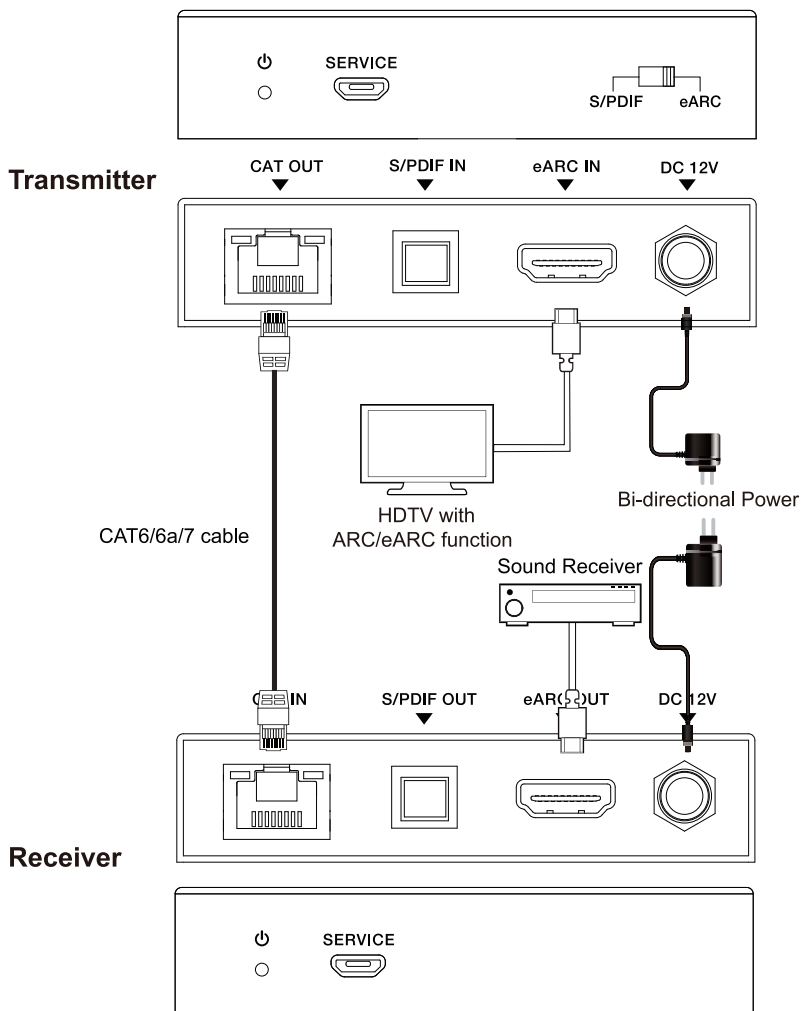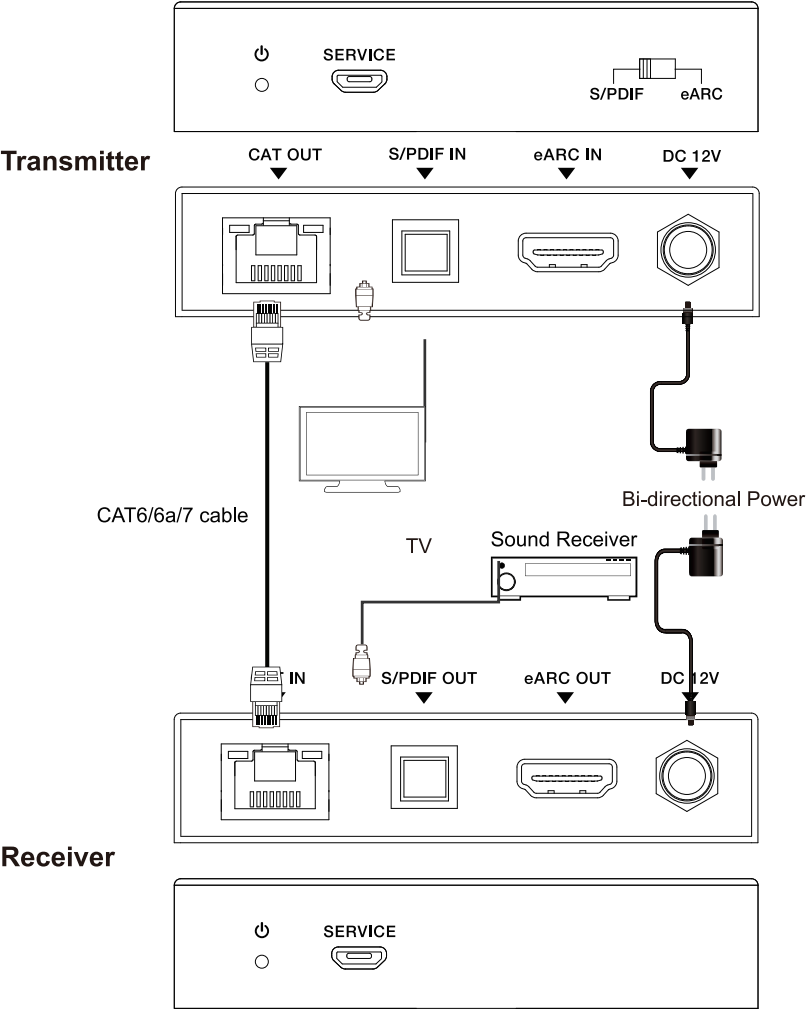| No.	Name	Function Description
1	Power LED	When the transmitter is powered on, the red LED will be on..
2	SERVICE	Firmware update port.
3	S/PDIF /eARC switch	Use this switch to select audio pass-through channel. Switch to S/PDIF: The S/PDIF OUT port outputs the optical audio from the S/PDIF IN port of the transmitter. Switch to eARC: The eARC OUT port outputs the HDMI eARC audio from the eARC IN port of the transmitter.
6	CAT OUT	Connect to the CAT IN port of the receiver with CAT6/6a/7 cable.
7	S/PDIF IN	Optical fiber audio input port, connected to an optical digital audio source device with Optical Toslink cable.
8	eARC IN	HDMI audio signal input port, connected to a TV with ARC/eARC function, used for ARC/eARC audio and CEC pass-through.
9	DC 12V	DC 12V power input port.

Receiver Panel

CAT IN   S/PDIF OUT   eARC OUT   DC 12V

SERVICE

❶   ❷   ❸   ❹   ❺   ❻

No.	Name	Function Description
1	Power LED	When the receiver is powered on, the red LED will be on.
2	SERVICE	Firmware update port.
3	CAT IN	Connect to the CAT OUT port of the transmitter with CAT6/6a/7 cable.
4	S/PDIF OUT	Optical fiber audio output port, connected to an amplifier or speaker with Optical Toslink cable.
5	eARC OUT	HDMI audio signal output port, connected to an HDMI audio device with ARC/eARC function such as a soundbar.
6	DC 12V	DC 12V power input port.

Application Example
Situation 1: eARC Mode

Transmitter

SERVICE

S/PDIF   eARC

CAT OUT   S/PDIF IN   eARC IN   DC 12V

CAT6/6a/7 cable

HDTV with
ARC/eARC function

Bi-directional Power

Sound Receiver

CAT IN   S/PDIF OUT   eARC OUT   DC 12V

Receiver

SERVICE

Situation 2: S/PDIF Pass-through Mode

Transmitter

CAT OUT S/PDIF IN eARC IN DC 12V

SERVICE

S/PDIF eARC

CAT6/6a/7 cable

TV Sound Receiver

Bi-directional Power

IN S/PDIF OUT eARC OUT DC 12V

Receiver

SERVICE

Warranty

All LINK products come with a 2-year limited liability warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified, or disassembled. Warranty items only by authorized resellers. Warranty not eligible for products purchased through non-authorized online sellers.

A product that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the date of reshipment to the buyer. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number. The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed. Proof of sale may be required in order to claim warranty.