User Manual

MP-AU-eARC-100

HDMI eARC Extender Kit

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 real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till Oct, 2025. 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.

SAFETY PRECAUTIONS

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

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- 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. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the 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.

Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes

Table of Contents

Introduction

The HDMI audio extender set that includes a Transmitter and a Receiver, to transmits HDMI eARC / ARC and optical digital audio signals up to distance of 200m (eARC/ARC signals up to 100m) via CATx cable. It also supports CEC pass-through when select HDMI eARC/ARC audio.

Features

- Extend either eARC/ARC or optical digital audio signals over CAT cable.
- Supports eARC/ARC distribution distances up to 100m.
- Supports optical audio distirbution distances up to 200m.
- Supports CEC pass-through when HDMI eARC/ARC mode selected.
- Bi-directional PoC (Power over Cable)
- Selection between HDMI eARC/ARC or Optical digital audio via dipswitch on the TX

Package List

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

Specification

Transmitter	
Input	(1) SPDIF, (1) eARC IN
Input Connector	(1) Toslink, (1) HDMI
Output	(1) CATx OUT
Output Connector	(1) RJ45
Control	(1) FIRMWARE
Control Connector	(1) Micro USB
Receiver	
Input	(1) CATx IN
Input Connector	(1) RJ45
Output	(1) SPDIF, (1) eARC OUT
Output Connector	(1) Toslink, (1) HDMI
Control	(1) FIRMWARE
Control Connector	(1) Micro USB
General	
Input Audio Format	eARC: PCM 2.0/5.1/7.1ch, Dolby Digital Plus, DTS, Dolby TrueHD,

	DTS-HD MA, Dolby Atmos
	ARC: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
	Optical: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
Output Audio Format	eARC: PCM 2.0/5.1/7.1ch, Dolby Digital Plus, DTS, Dolby TrueHD, DTS-HD MA, Dolby Atmos
	ARC: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
	Optical: PCM 2.0ch, Dolby 5.1ch, DTS 5.1ch
Frequency Response	All audio: 20Hz ~ 20kHz, < ±0.3dB
Sample Rate	SPDIF: 48/96/192 kHz
	HDMI: 48/96/192 kHz
Transmission Distance	SPDIF: Up to 200m (CATx)
	eARC: Up to 100m (CATx)
	Note: Optical fiber transmission supports up to 96kHz sampling rate at 200m, and up to 100m at 192kHz
Power Consumption	2.5W (max)
Operation Temperature	0 ~ +40℃
Storage Temperature	-10 ~ +50℃
Relative Humidity	0% ~ 90%
External Power Supply	12V1A
Dimension (W*H*D)	TX: 80mm x 21mm x 74mm; RX: 80mm x 21mm x 74mm
Net Weight (g)	Transmitter: 150g,
	Receiver: 150g

Panel Description

Transmitter

1. SPDIF IN: Connect to display for optical audio return.

2. eARC IN: Connect to eARC/ARC port on local HDMI display.

3. SPDIF/eARC: Select between eARC/ARC input port between HDMI or Optical input.

4. FW: USB Upgrade Port.

5. CATx OUT: Cat5e/6 RJ45 Output Port.

6. DC12V: 12V/1A DC power supply.

7.   LED: Lights green when power is connected.

Receiver

1.   SPDIF OUT: Connect to AVR or processor for optical audio return.

2.   eARC OUT: Connect to AVR or processor audio return channel input.

3.   FW: USB Upgrade Port.

4.   CATx IN: Cat5e/6 RJ45 Input Port

5.   DC12V: 12V/1A DC power supply.

6.   LED: Lights green when power is connected.

System Diagram