eARC Audio-Only Extender

eARC100



User Manual

AV Access

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Introduction

Overview

This product is an eARC audio-only extender kit. It can transmit eARC/ARC up to 100m/330ft from TV back to centralized AVR. The kit supports full eARC capabilities up to Dolby Atmos. It also supports full eARC function and is backward compatible with 5.1CH ARC. It also features bi-directional IR, RS232, and CEC pass-through between the eARC transmitter and receiver.

Features

- Supports transmitting eARC/ARC audio up to 100m/330ft over a single Cat 5e/6 or above cable.
- The eARC audio supports Object-based audio formats like Dolby Atmos and DTS:X, and also supports lossless audio formats like Dolby TrueHD and DTS HD Master.
- Supports bi-directional IR, RS232 and CEC pass-through between transmitter and receiver.
- Powered via Micro USB port.
- Firmware upgradable via RS232 port.

Package Contents

Before you start the installation of the product, please check the package contents:

- Transmitter x 1
- Receiver x 1
- Power Adapter (DC 5V 1A) x 2
- Micro USB to USB Type-A Cables (L=1m) x 2
- IR Emitter x 1
- IR Receiver x 1
- Phoenix Male Connector (3.5mm 3-Pin) x 2
- Mounting Brackets (with Screws) x 4
- User Manual x 1

Panel

Front Panel

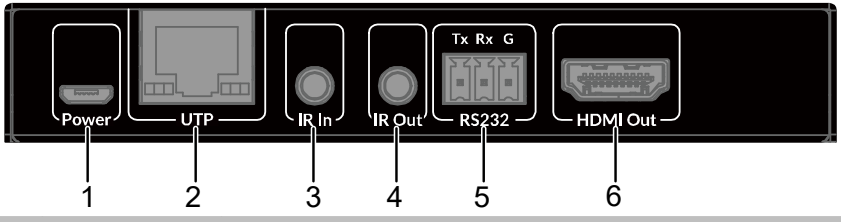
Transmitter/Receiver



No.	Name	Description
1	Power LED	**On:** The device is powered on. **Off:** The device is powered off.
2	Link LED	**On:** UTP link is normal. **Off:** No UTP link or link error.
3	eARC LED	**On:** The eARC audio is being transmitted. **Blinking:** The ARC audio is being transmitted. **Off:** No eARC and ARC audio are being transmitted.

Rear Panel

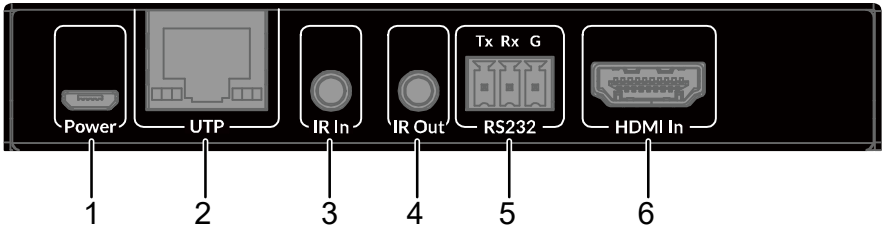
Transmitter



No.	Name	Description
1	POWER	Use the provided Micro USB to USB type-A cable to

No.	Name	Description
		connect with 5V power source (or USB port of display).
2	UTP	Connect to UTP port of the receiver.
3	IR In	Connect to the IR receiver provided.
4	IR Out	Connect to the IR emitter provided.
5	RS232	Connect to RS232 enabled device for RS232 pass-through or upgrading.
6	HDMI Out	Connect to a display's eARC/ARC HDMI input port.

Receiver



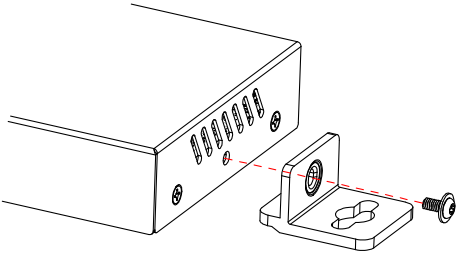
No.	Name	Description
1	Power	Use the provided Micro USB to USB type-A cable to connect with 5V power source.
2	UTP	Connect to UTP port of the transmitter.
3	IR In	Connect to the IR receiver provided.
4	IR Out	Connect to the IR emitter provided.
5	RS232	Connect to RS232 enabled device for RS232 pass-through or upgrading.
6	HDMI In	Connect to an AV receiver's eARC/ARC HDMI output port.

Installation and Application

Brackets Installation

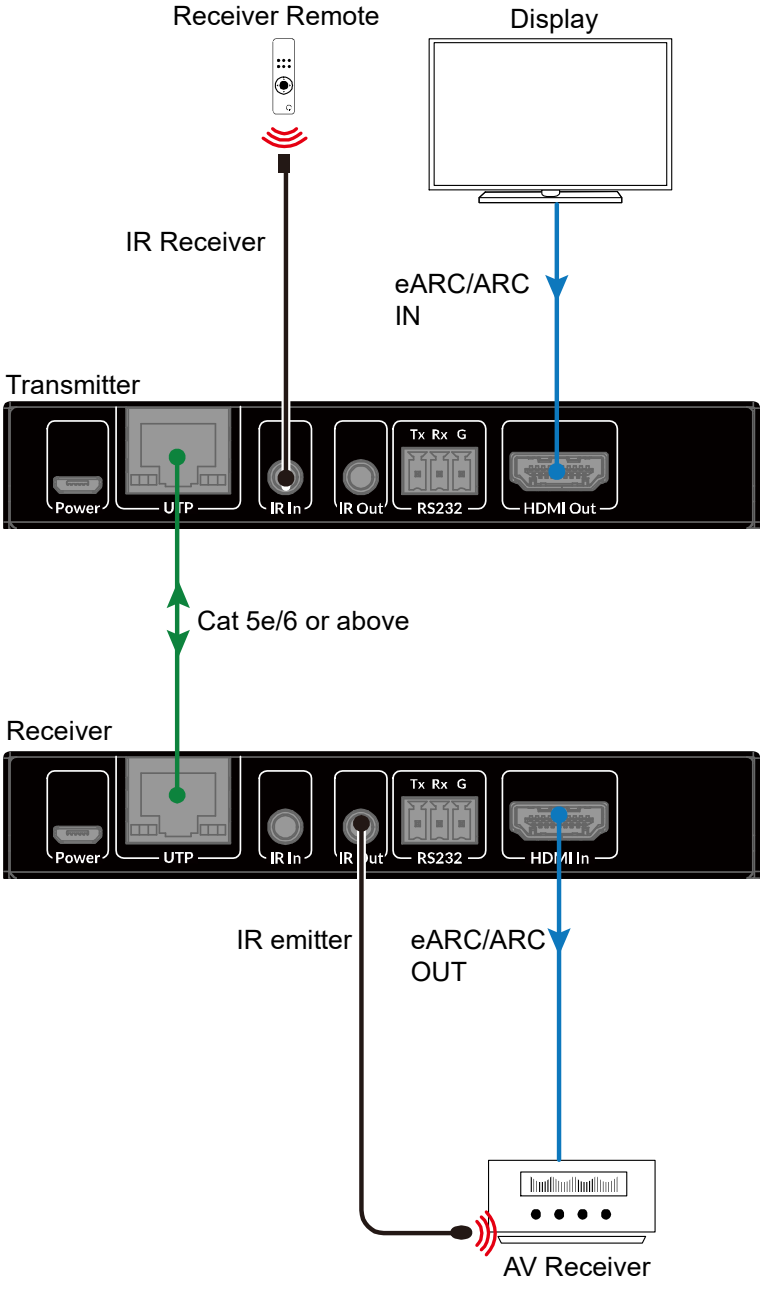
Note: Before installation, please ensure the extender is disconnected from the power source.

1. Attach the installation bracket to the enclosure using the screws that were provided in the package separately. As shown in the figure.



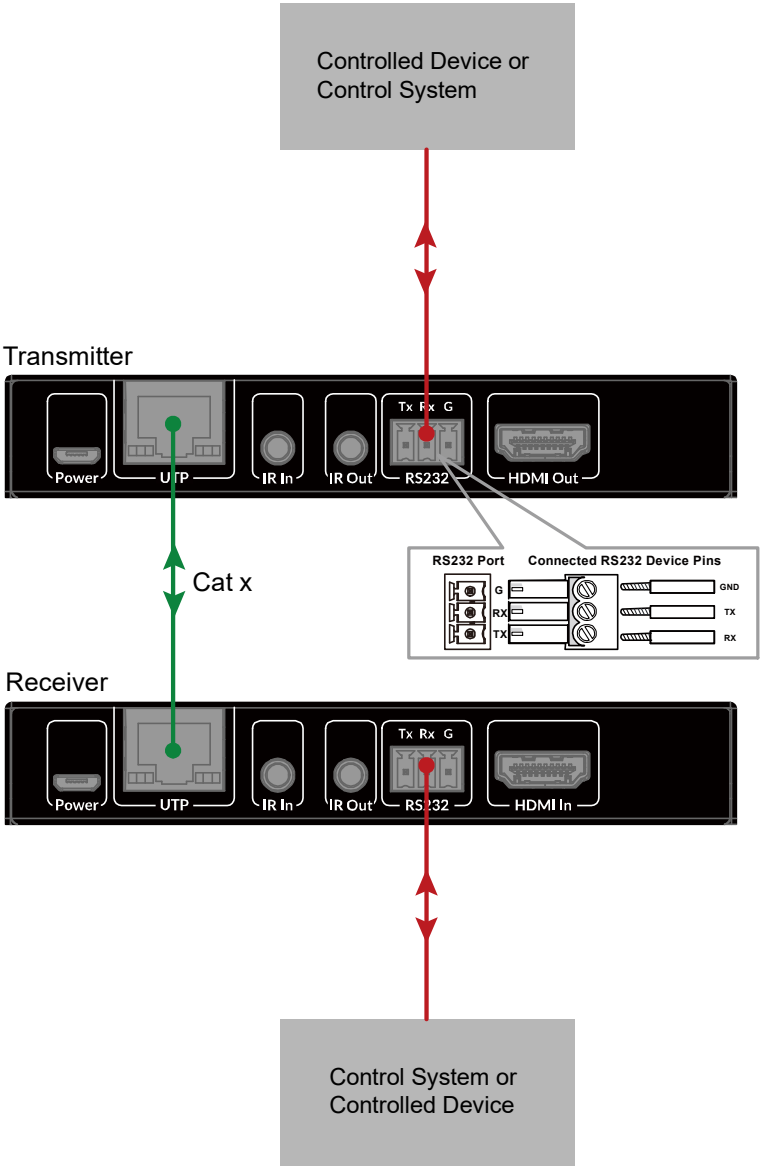
2. Attach the brackets to the surface you want to hold the unit against using the screws (provided by others).
3. Repeat the steps from 1 to 2 to install the receiver.

Application


Receiver Remote
Display
IR Receiver
eARC/ARC
IN
Transmitter
Power
UTP
IR In
IR Out
Tx Rx G
RS232
HDMI Out
Cat 5e/6 or above
Receiver
Power
UTP
IR In
Tx Rx G
RS232
HDMI In
IR emitter
eARC/ARC
OUT
AV Receiver

RS232 Pass-Through

RS232 ports can be used for bi-directional RS232 signal pass-through between the transmitter and receiver.



Specifications

Technical	
Audio Format	ARC: Dolby Digital, Dolby Digital Plus, DTS, DTS HD, PCM 2.0 eARC: PCM 2.0, PCM 5.1, PCM 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS, DTS HD, DTS HD Master Audio, DTS:X

General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	20% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 5V 1A
Power Consumption	3.582W (Max)
Device Dimensions (W x H x D)	Transmitter/Receiver: 120mm × 20mm × 70.2mm / 4.72'' x 0.79'' x 2.76''
Product Weight	Transmitter/Receiver: 0.23kg/0.51lb

Transmission Distance

Note: T568B straight-through Category cable is recommended.

Cable Type	Range
Cat 5e/6 or above	100m/330ft
HDMI	Input/Output: 5m/16ft

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access shall charge for the service(s) claimed for the product if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by AV Access) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an AV Access authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
5. The service, configuration and gifts promised by salesman only but not covered by normal contract.
6. AV Access preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

Thank you for choosing products from AV Access.

If you have any question, please contact us via the following emails:
General Enquiry: info@avaccess.com
Customer/Technical Support: support@avaccess.com



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