

BINARY B-260-ARC Audio Return Extender for HDMI eARC



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BINARY B-260-ARC Audio Return Extender for HDMI eARC



Product Information

Specifications

- **Model:** B-260-ARC
- **Function:** Audio return extender for HDMI eARC and SPDIF IN
- **Supported Audio:** LPCM 2CH

Product Overview

The B-260-ARC is an audio return extender designed for HDMI eARC and SPDIF audio pass-through. It supports CEC pass-through between the HDMI ARC input port and ARC output port to facilitate eARC transmission. For TVs lacking HDMI eARC support, the extender offers an independent SPDIF audio pass-through channel.

Features

- LPCM 2CH support
- CEC pass-through for HDMI ARC
- SPDIF audio pass-through

Package Contents

1. B-260-ARC transmitter
2. B-260-ARC receiver

Device Layout

B-260-ARC Transmitter:

1. **POWER:** Connect to the provided power adapter
2. **UTP OUT:** Connect to UTP IN port of the receiver

3. **STATUS** LED indicator

B-260-ARC Receiver:

1. **POWER:** Connect to the provided power adapter or TV USB connector
2. **UTP IN:** Connect to the UTP OUT port of the transmitter
3. **STATUS** LED indicator

Installation

Warning:

Before installation, ensure the device is disconnected from the power supply.

1. Attach the mounting ear to the enclosure using the screws provided.
2. Mount the device as instructed in the manual.

Product Usage Instructions

Setting Mode (eARC or SPDIF)

To set the extender to eARC or SPDIF mode:

1. Locate the DIP switches on both the transmitter and receiver.
2. Set both DIP switches to the same position based on the desired mode (eARC or SPDIF).
3. For eARC mode, switch both transmitter and receiver DIP switches to the ARC position.

Connecting the Device

Transmitter:

1. Connect POWER to the provided power adapter.
2. Connect UTP OUT to UTP IN port of the receiver.

Receiver:

1. Connect POWER to the provided power adapter or TV USB connector.
2. Connect the UTP IN to the UTP OUT port of the transmitter.

Frequently Asked Questions (FAQ)

- **Q: Can I use the extender near water sources?**

A: No, it is advised not to use this apparatus near water sources to avoid any risk of electric shock or damage.

- **Q: How do I switch between eARC and SPDIF modes?**

A: You can switch between eARC and SPDIF modes by adjusting the DIP switches on both the transmitter and receiver to the corresponding positions.

Important safety information

To reduce the risk of fire or electric shock, read and follow all instructions and warnings in this manual. Keep this manual for future reference.

1. Do not expose this apparatus to rain or moisture. Do not expose this equipment to dripping or splashing, and ensure that no objects filled with liquids, such as vases, are placed on the equipment. Do not use this apparatus near water.
2. Do not remove the cover. No user-serviceable parts inside.
3. Clean only with a dry cloth.
4. Do not block any ventilation openings. Install according to the manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
6. Do not override the safety purpose of the polarized or grounding plug. A polarized plug has two blades, one of which is wider than the other. A grounding plug has two matching blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.
7. Protect the power cord from being walked on or pinched, particularly at the plug end and where the power cord is attached to the apparatus.
8. Only use attachments and accessories specified by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled on or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, the apparatus does not operate normally, or it has been dropped.
10. To completely disconnect this equipment from power, disconnect the power supply cord from the power outlet.
 - The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
 - The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

- **CAUTION:** TO REDUCE THE RISK OF ELECTRICAL SHOCK.
- DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE.
- REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

FCC warnings

This equipment has been tested and found to comply with the limits for a Class B digital device, under Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used by the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user


is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Regulatory requirement

When using the power adapter, please refer to the following notes. The specifications of the provided power adapter:

- **Rated Input:** INPUT: 100-240V~, 50-60Hz, 0.3A; OUTPUT: 5.0V DC, 1.0A, 5.0W
- **Model:** 6A-054WP5B
- **Trademark:** 
- **Manufacturer:** ENG ELECTRIC CO., LTD.

Trademarks

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Product Overview

- The product is an extender for HDMI eARC and SPDIF audio pass-through. It supports CEC pass-through between HDMI ARC input port and ARC output port to handshake for each transmission.
- For TVs that don't support HDMI eARC capabilities, the extender provides an independent SPDIF audio pass-through channel. SPDIF audio can be transmitted from the SPDIF IN port of the transmitter to the SPDIFOUT port of the receiver.

Features

- Supports CEC pass-through between HDMI ARC Input port and ARC Output port to handshake for ARC transmission.
- Supports signal transmission distance up to 70m/230ft via a single Cat 5e or above cable.
- Supported returned audio formats include: Dolby Digital+ (DD+), Dolby 5.1CH, DTS 5.1CH and LPCM 2CH.

Pro tip:

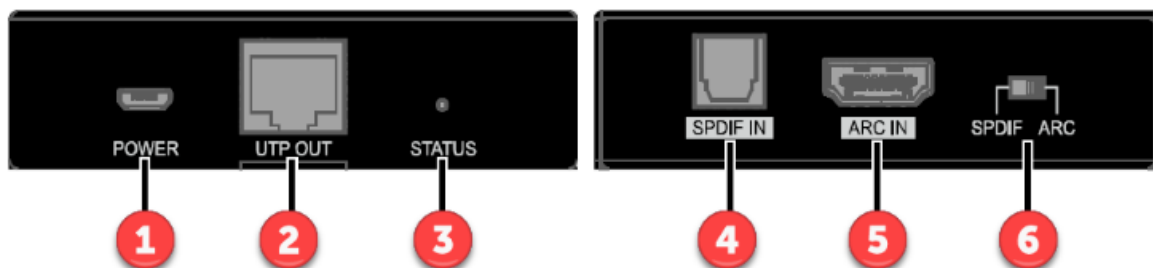
To set the extender to eARC or SPDIF mode, users need to set the DIP switches of the transmitter and receiver to the same position. For example, when the extender is set to eARC mode, the DIP switches of the transmitter and receiver both need to be switched to the "ARC" position.

Package contents

- 1X B-260-ARC Transmitter
- 1X B-260-ARC Receiver
- 2 X DC 5V Power Adapter
- 4x Mounting Ears (with Screws)
- 4x Mounting Screws
- 8 X Rubber Feet
- 1x User Manual

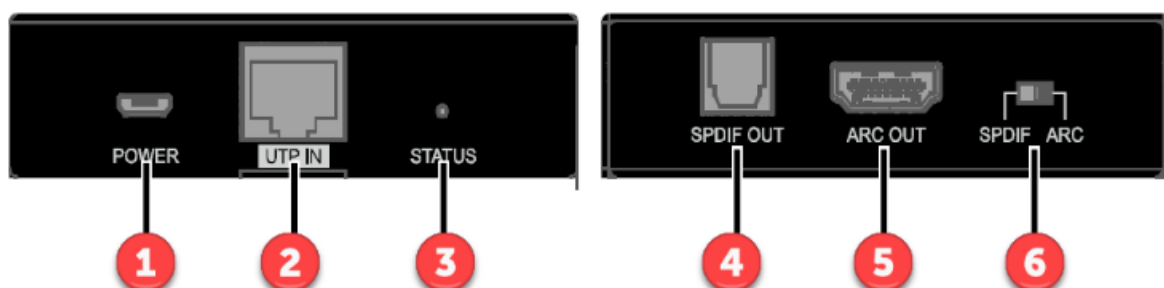
Device layout

B-260-ARC transmitter



1. **POWER:** Connect to the power adapter provided.
2. **UTP OUT:** Connect to the UTP IN port of the receiver.
3. **STATUS LED:**
 - **On:** The transmitter is working properly but the connection between transmitter and receiver is not successful.
 - **Blinking:** The transmitter is working properly, and the connection between the transmitter and receiver is successful.
 - **Off:** The transmitter is not working properly.
4. **SPDIFIN:** Connect to an audio source device.
5. **ARC IN:** Connect to an HDMI display such as a TV.
6. **SPDIF/ARC Switch:**
 - **ARC:** Configure the eARC channel feed by TV. (Default)
 - **SPDIF:** Configure auxiliary SPDIF input, and pass optical audio from the transmitter to the receiver unit.

B-260-ARC receiver



1. **POWER:** Connect to the power adapter provided. On Many TV the B-260-ARC RX can be connected to the TV

USB connector for power.

2. **UTPIN:** Connect to the UTP OUT port of the transmitter.

3. **STATUS LED:**

- **On:** The receiver is working properly but the connection between the receiver and transmitter is not successful.
- **Blinking:** The receiver is working properly, and the connection between the receiver and transmitter is successful.
- **Off:** The receiver is not working properly.

4. **SPDIF OUT:** Connect to AVR or other audio device.

5. **ARC OUT:** Connect to an AV receiver.

6. **SPDIF/ARC Switch:**

- **ARC:** Configure the eARC channel feed by TV. (Default)
- **SPDIF:** Configure auxiliary SPDIF output, and pass optical audio from transmitter to receiver unit.

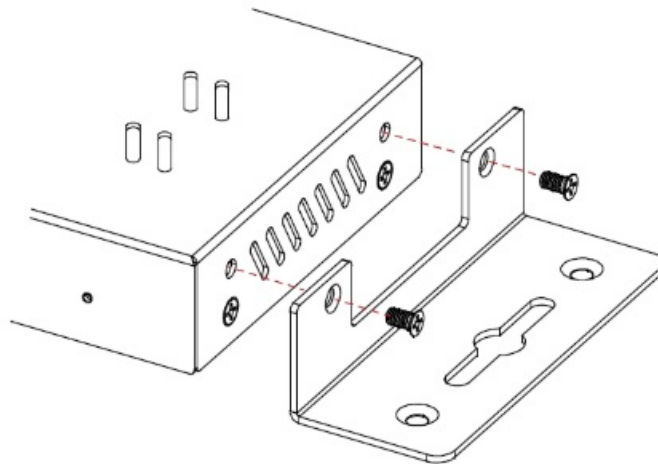
Installation

Warning:

Before installation, please ensure the device is disconnected from the power supply.

Steps to install the device in a suitable location:

1. Attach the mounting ear to the enclosure using the screws provided in the package.
2. The mounting ear is attached to the enclosure as shown.



3. Repeat steps 1-2 for the other side of the transmitter.
4. Attach the brackets to the surface or wall you want to hold the unit against using the provided mounting screws (ST3.5mm*L25mm, black, countersunk head with cross, self-tapping screws).
5. Repeat steps 1-4 to install the receiver.

Wiring

Warning:

Before wiring, disconnect the power from all devices. While wiring, connect and disconnect the cables gently.

Wiring 1: eARC mode

Note:

When you want to configure the eARC channel feed by TV: ensure the AV receiver and TV support the eARC function and CEC should be set to enable it.

1. Connect a TV to the ARC IN port of the transmitter.
2. Connect an AV receiver to the ARC OUT port of the receiver.
3. Connect the UTP OUT port of the transmitter to the UTP IN port of the receiver.
4. Switch both the DIP switches of the transmitter and receiver to ARC mode.
5. Set the CEC function of the TV to be on.
6. Switch the AV receiver to the eARC channel.
7. Connect the USB ports of the transmitter and receiver to the provided power adapters.
8. Power on all devices. The audio signal of the TV through the ARC IN port will be transmitted to the AV receiver connected to the ARC OUT Port of the receiver. (See Figure 1)

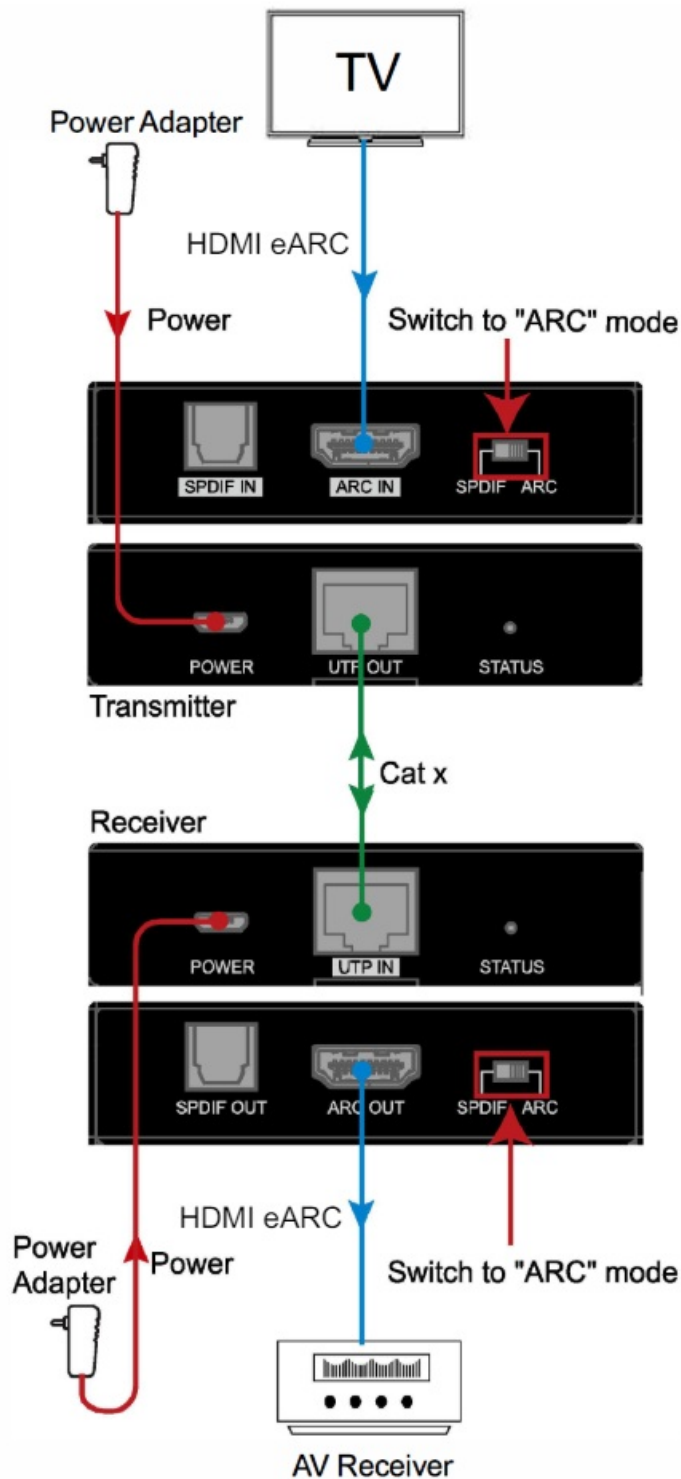


Figure 1: Wiring option 1, ARC

Wiring 2: SPDIF mode

1. Switch both the DIP switches of the transmitter and receiver to SPDIF mode.
2. Connect an audio source to the SPDIF IN port of the transmitter.
3. Connect an audio device such as a stereo amplifier to the SPDIF OUT port of the receiver.
4. Connect the USB ports of the transmitter and receiver to the provided power adapters.
5. Power on all attached devices. Audio signal from the SPDIF IN port will be transmitted to the SPDIF OUT port.

(See Figure 2)

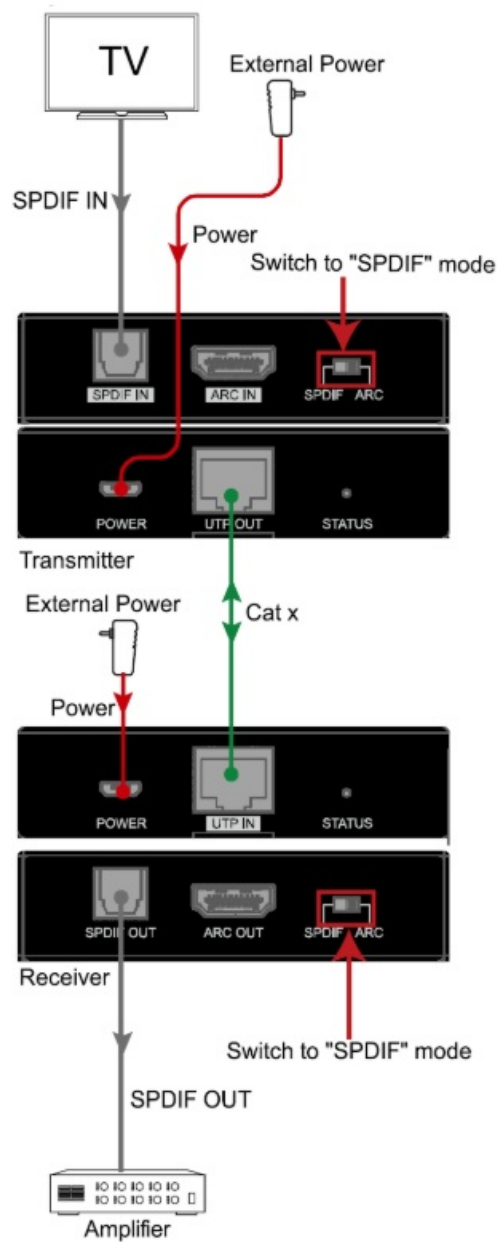
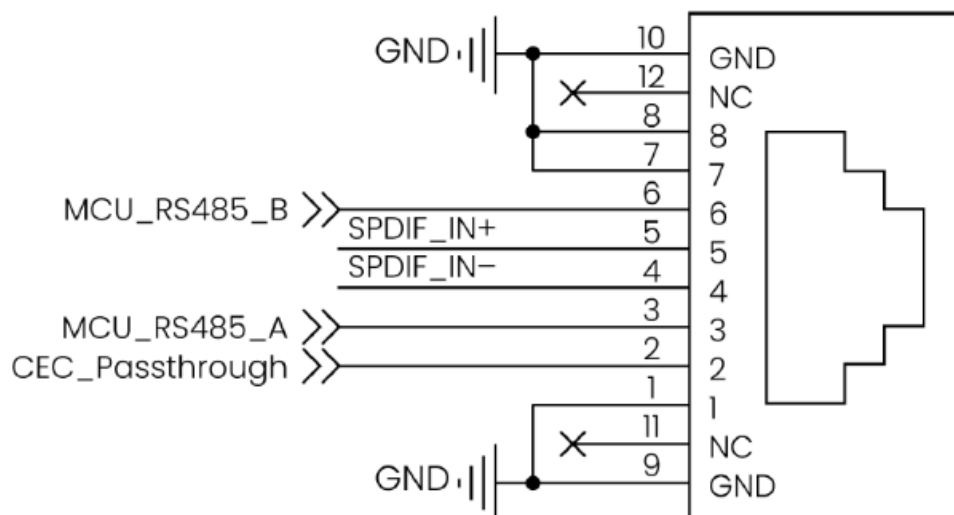


Figure 2: Wiring option 2, SPDIF

UTP pinout Diagram



Pins 1, 7, and 8 are not used. One of these three pins should be reserved for GND, which leaves two unused pins.

Specifications

Technical	
Input/Output port	Transmitter: 1 × ARC IN, 1 × SPDIF IN, 1 × UTP OUT, 1 × POWER (micro USB) Receiver: 1 × ARC OUT, 1 × SPDIF OUT, 1 × UTP IN, 1 × POWER (micro USB)
Input/Output audio formats supported	HDMI: PCM 2.0CH, Dolby 5.1CH, DTS 5.1CH, DD+ SPDIF: PCM 2.0CH, Dolby 5.1CH, DTS 5.1CH, DD+
Control method	DIP switches
General	
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-20°C to 60°C (-4°F to 140°F)
Humidity	10% to 90%, non-condensing
ESD protection	Human-body model: ±15kV (air-gap discharge)
Power supply	5 Vdc, 1A
Power consumption (max)	0.4W (transmitter/receiver)
Device dimensions (W×H×D)	80mm ×20mm ×70mm (3.15" × 0.79" × 2.76")
Product weight	0.18kg / 0.40 lb (transmitter/receiver)
Transmission distance	
Cable type: Cat 5e/6/6a/7	Range: 70m/230ft

Technical Support


- For chat and telephone, visit ctrl4.co/techsupport.
- Email: TechSupport@SnapOne.com.
- Visit tech.control4.com/technician for discussions, instructional videos, news, and more.

Warranty and Legal Notices

Find details of the product's Limited Warranty and other resources such as regulatory notices and patent and safety information, at snapone.com/legal or request a paper copy from Customer Service at 866.424.4489.

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Documents / Resources

 <p>BINARY B-260-ARC Audio return extender for HDMI eARC and SPDIF IN Install Guide</p>	<p>BINARY B-260-ARC Audio Return Extender for HDMI eARC [pdf] Installation Guide B-260-ARC Audio Return Extender for HDMI eARC, B-260-ARC, Audio Return Extender for HD MI eARC, Extender for HDMI eARC, HDMI eARC</p>
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References

- ctrl4.co/techsupport
- [Policies](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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