



J-TECH DIGITAL®

V1.0

USER MANUAL



ARC & SPDIF AUDIO EXTENDER 492FT.

JTD-3081 | JTECH-AET-AS

J-TECH DIGITAL INC.

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Scan the QR code below or visit <https://resource.jtechdigital.com/products/3081> to view and access detailed digital resources regarding this unit.



Safety Instructions:

- Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:
- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

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1. What's Included



Main Unit TX & RX

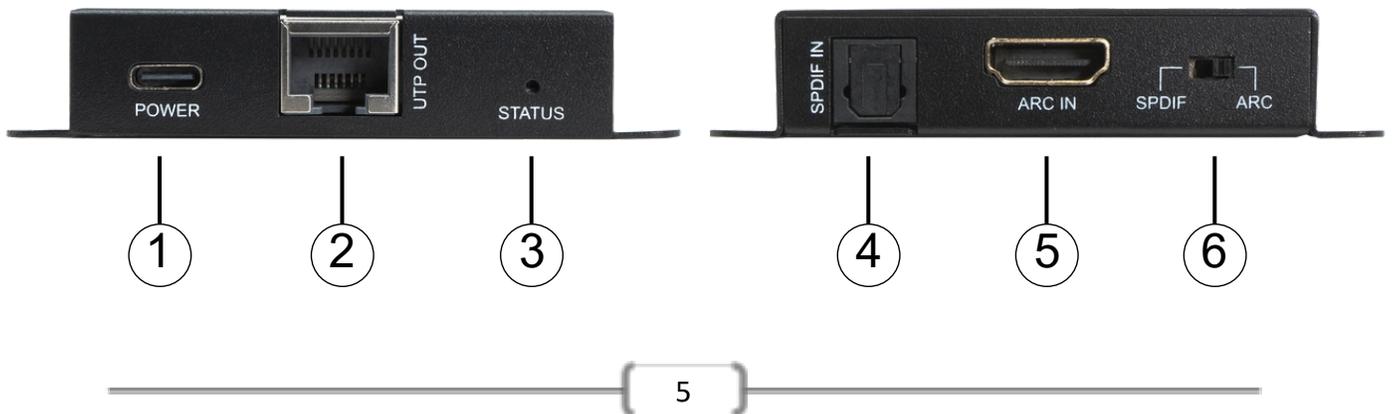


USB Power Adapter
x 2pcs

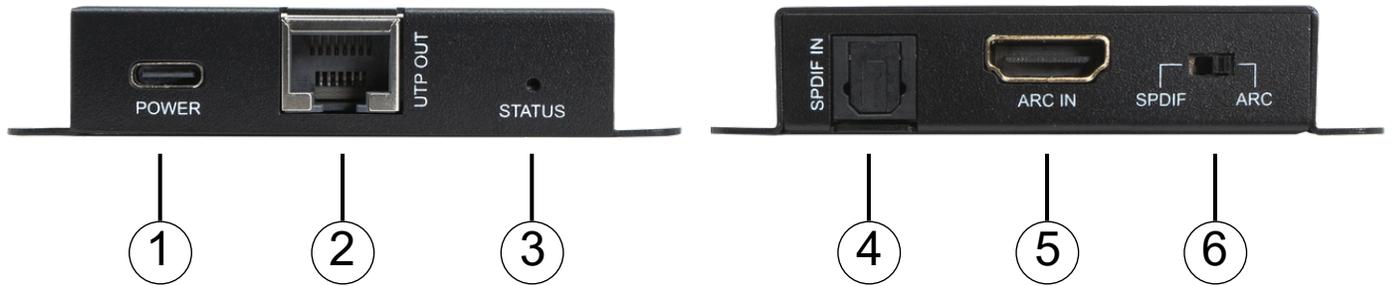


USB-A to USB-C Power
Cable x 2pcs

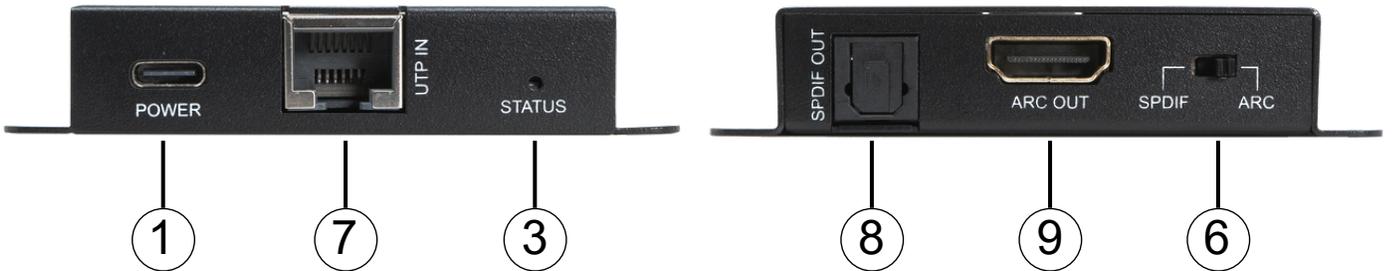
2. Ports and Interfaces



Transmitter



Receiver



1. Power: USB-C DC 5V Power In

2. UTP Out: Connect to RJ45 OUT via CAT5e/5 cable

3. Status: Status LED Indicator

a. On: The transmitter is working properly but the connection between the transmitter and receiver is not successful

b. Blinking: The transmitter is working properly, and the connection between the transmitter and receiver is successful

c. Off: The transmitter is not working properly

4. SPDIF In: Connect to Input Audio Sources via Optical cable

5. ARC In: Connect to HDMI ARC Port of TV via HDMI cable

6. SPDIF / ARC: Switch the button at the "SPDIF" or "ARC" side for functionality. **Note:** The switch must match (either both SPDIF or ARC depending on your connection) on both the transmitter and receiver in order for audio to pass through

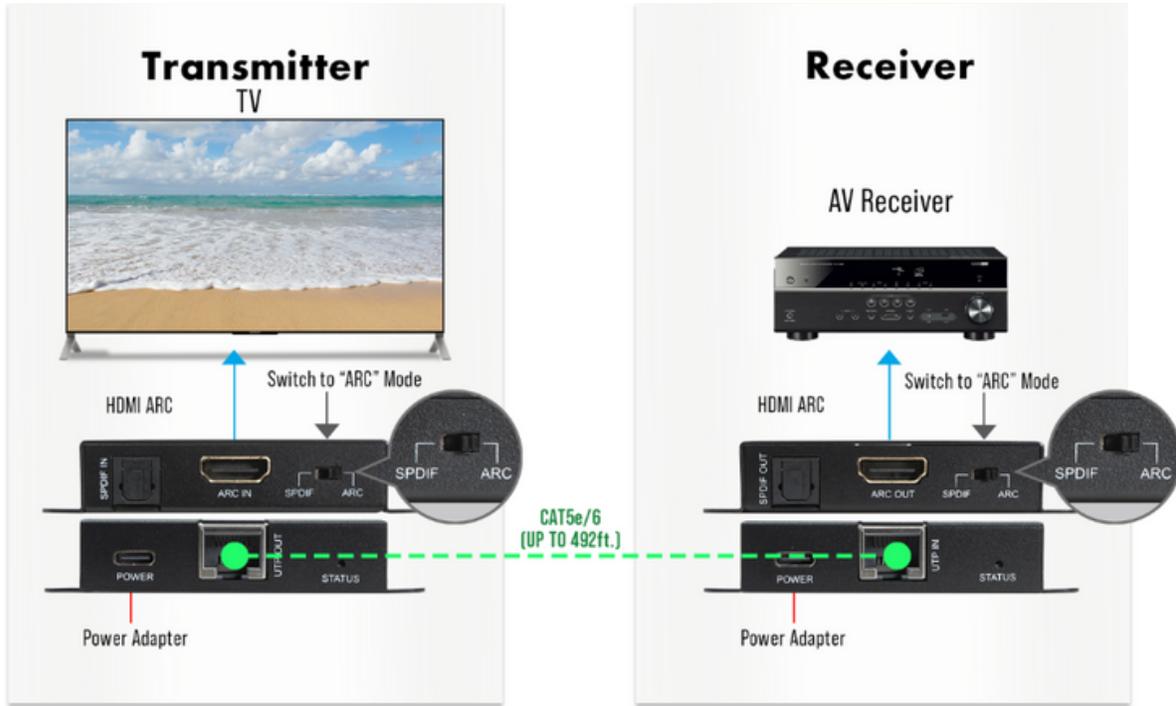
7. UTP In: Connect to RJ45 In via CAT5e/6 cable

8. SPDIF Out: Connect to Output Audio Sources via Optical cable

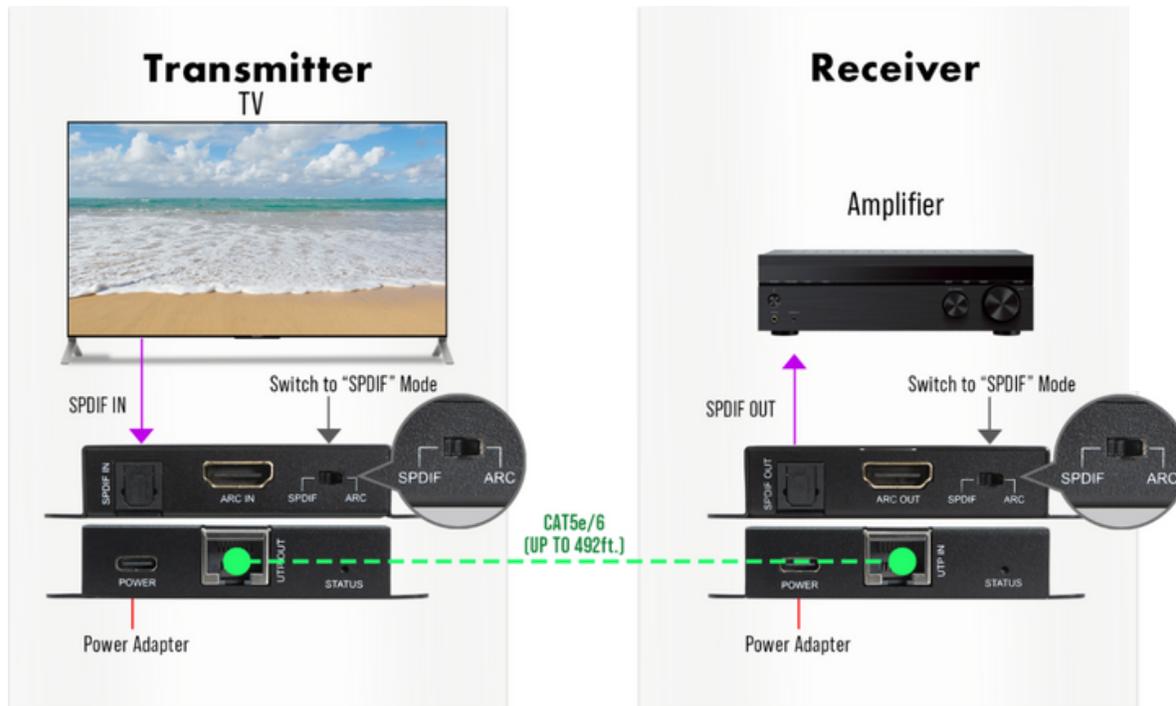
9. ARC Out: Connect to HDMI Port of AMP via HDMI cable

3. Connection Diagram

1. ARC Mode



2. SPDIF Mode



4. Introduction

The product is an extender for both HDMI ARC and SPDIF audio pass-through. It supports CEC pass-through between HDMI ARC input port and ARC output port for creating handshake for ARC, for TV's that don't support HDMI ARC capabilities. This extender provides an independent SPDIF audio pass-through channel, and SPDIF audio can be transmitted from the SPDIF In port of the transmitter to the SPDIF Out port of the receiver.

5. Features

- Cost-effective solution for extending the digital S/PDIF or HDMI ARC audio through using single low-cost CAT5e or CAT6 cable for up to 150 meters (492ft.) away from the source
- Supports PCM, DTS, and Dolby Digital audio formats
- High performance, zero signal loss
- Supports CEC pass-through between HDMI ARC Input port and ARC Output port to handshake for ARC transmission
- Supports Dual digital audio inputs: 1 x SPDIF and 1 x HDMI ARC
- Supports Dual digital audio outputs: 1 x SPDIF and 1 x HDMI ARC
 - SPDIF and HDMI ARC can not work simultaneously
- Easy to customize the cable length as needed. No need to have digital audio cables prefabricated

Note: To set the extender to ARC or SPDIF mode, users need to set the dip switches on the transmitter and receiver to the same position. For example, when the extender is set to ARC mode, the dip switches of transmitter and receiver both need to be switched to the ARC position.

6. Specifications

Input Ports	HDMI ARC x 1, SPDIF x 1, UTP x 1
Output Ports	HDMI ARC x 1, SPDIF x 1, UTP x 1
Transmission Distance	150m via CAT5e/6 Cable
Data Transmission Rate	12.8Mb/s
Audio Sampling Rate	96KHz
Limited Warranty	1 Year Parts and Labor
Operating Temperature	0° ~ 50° C

Storage Humidity	5% to 90% RH non-condensation
Power Supply	DC 5V 1A
Power Consumption (Max)	TX / RX: 0.4W
Extender Unit Cert	FCC, CE, RoHS
Dimensions (L x W x H)	TX / RX: 83.5 * 69.5 * 15.8mm
Net Weight	TX / RX: 110g
Material	Metal
User Manual	English Version

Note: Specifications are subject to change without notice

7. Troubleshooting

Problems	Causes	Solutions
No power LED lighting on receiver	Maybe the Ethernet cable and DC adapter power cable aren't connected well	Please re-check the connection of the Ethernet cable between the transmitter and receiver, and re-plug the AC side and DC side of power adapter on the transmitter
No audio output after normal connection	Maybe the product can't support the input audio format or the output devices can't support the audio signal	Please make sure the input source and output device all support 5.1ch audio, and the audio signal format should be below 5.1ch and the sampling rate should be lower than 96KHz

8. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

9. Warranty

If your product does not work properly because of a defect in materials of workmanship, our company (referred to as "the warrantor") will, for the length of the period indicated as below, "Parts and Labor (1) Year", which starts with the date of original purchase ("Limited Warranty

period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

10. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

11. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis- adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

There are no express warranties except as listed under “Limited Warranty Coverage”. The warrantor is not liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive but are for illustration only). Parts and service, which are not covered by this limited warranty, are your responsibility.



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