

ANI-0104POE-AU

1x4 HDMI POE 1080/4K60 18Gbps CAT6 Extender Splitter,
IR Return, w/ 4x Receivers 196 ft (60M) AUTO SETUP



PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the box:

- ANI-0104POE-AU 1x4 18Gbps HDMI Splitter
- (4) CAT Receivers
- IR Blaster Cable (5 ft / 1.5M)
- USB -to- USB Micro-B cable
- (4) 20K~60KHz IR Receiver Cable (5 ft / 1.5M)
- 12V/2.5A DC Locking Power Adapter



SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment.
 - C. The equipment has been exposed to rain.
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
 - E. The equipment has been dropped, or the enclosure damaged.

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DEAR CUSTOMER

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.

INTRODUCTION

The ANI-0104POE-AU 1x4 18Gbps HDMI Splitter can distribute (1) HDMI source signal to (4) display devices. The product supports (1) HDMI input, (1) HDMI loop output and (4) CAT outputs. It can extend the signal transmission distance up to 114ft/35M at the resolution of 4K2K@60Hz, 164ft/50M at 4K2K@30Hz, 196ft/60M at 1080P@60Hz via a single CAT6/6a/7 cable. The product supports up to 7.1CH HD audio pass-through. It supports audio extraction function (audio remains embedded on the HDMI/CAT cable) and advanced EDID management. This unit has a 3 year warranty.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

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FEATURES

- HDMI 2.0, HDCP 2.2 / 1.x and DVI 1.0 compliant
- Supports 18Gbps video bandwidth
- Supports video resolution up to 4K2K@50/60Hz 4:4:4
- Supports 3D, HDR, HDR10+, HLG and Dolby vision
- Supports up to 7.1CH HD audio pass-through
- Supports digital and analog audio de-embedded output
- Extends the signal transmission distance up to 114ft/35M at the resolution of 4K2K@60Hz, 164ft/50M at 4K2K@30Hz, 196ft/60M at 1080P@60Hz via a single CAT6/6a/7 cable
- Supports (1) HDMI input, (1) HDMI loop output and (4) CAT outputs
- Supports one-way IR control signal pass-through
- Advanced EDID management
- Supports one-way PoC function (only from transmitter to receiver)
- Compact design for easy and flexible installation

NOTES

For the best results, it is suggested you use pure copper and not copper clad aluminum and use solid, riser rated cable and not stranded cable. Stranded cable has ~20% higher signal attenuation than solid, so its runs need to be shorter.

Contiguous cable runs are preferred. The use of network punch down into patch panels and keystone jacks adds attenuation and runs need to be shorter.

The use of EZ-45® connectors are not recommended as the cable extends outside the end of the RJ45 connector and can act as an inductor of noise.

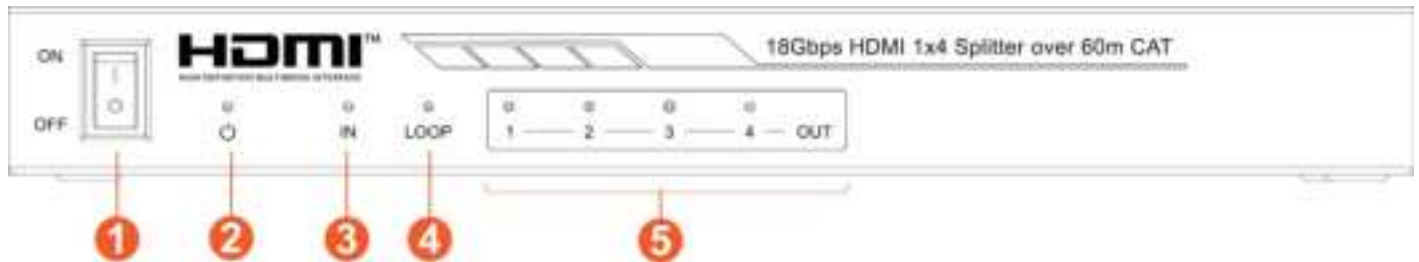
SPECIFICATIONS

- **HDMI Compliance:** HDMI 2.0
- **HDCP Compliance:** HDCP 2.2/1.x
- **Video Bandwidth:** 594MHz/18Gbps
- **Video Resolution:** Up to 4K2K@50/60Hz 4:4:4
- **Color Depth:**
 - 8-bit, 10-bit, 12-bit (1080p@60Hz)
 - 8-bit (4K2K@60Hz YUV4:4:4)
 - 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
- **Color Space:** RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
- **HDR:** Support HDR10, HDR10+, HLG, Dolby vision
- **HDMI Audio Formats:** LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
- **Coaxial Audio Formats:** LPCM2.0, LPCM5.1, Dolby Digital2/5.1CH
- **Analog Audio Formats:** PCM 2.0
- **ESD Protection Human Body Model:**
 - ±8kV (air-gap discharge)
 - ±4kV (contact discharge)
- **Input:** HDMI Type A (19-pin female)
- **Output:**
 - HDMI Type A (19-pin female)
 - (4) CAT OUT [RJ45, 8-pin female]
 - Coaxial Audio OUT [RCA]
 - L/R Audio OUT [3.5mm Stereo Mini-jack]
- **Control:**
 - SERVICE ((2) USB MICRO-B; Used for firmware update and serial port com)
 - EDID DIP switch [5-pin]
 - IR OUT [3.5mm Stereo Mini-jack]
- **Housing:** Metal Enclosure
- **Silkscreen Color:** Black
- **Dimensions (WxDxH):**
 - Transmitter: 8.3 x 3.9 x 1 in (210x100x25mm)
 - Receiver: 3.5 x 2.4 x .7 in (88x61x18mm)
- **Weight:** Transmitter: 1.4 lbs/617g / Receiver: .34lbs/155g
- **Power Supply:** Input: AC100 - 240V 50/60Hz, Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
- **Power Consumption:** 14W
- **Operation Temperature:** 0°C ~ 40°C / 32°F ~ 104°F
- **Storage Temperature:** -20°C ~ 60°C / -4°F ~ 140°F
- **Relative Humidity:** 20~90% RH (non-condensing)

As product improvements are continuous, specifications are subject to change without notice.

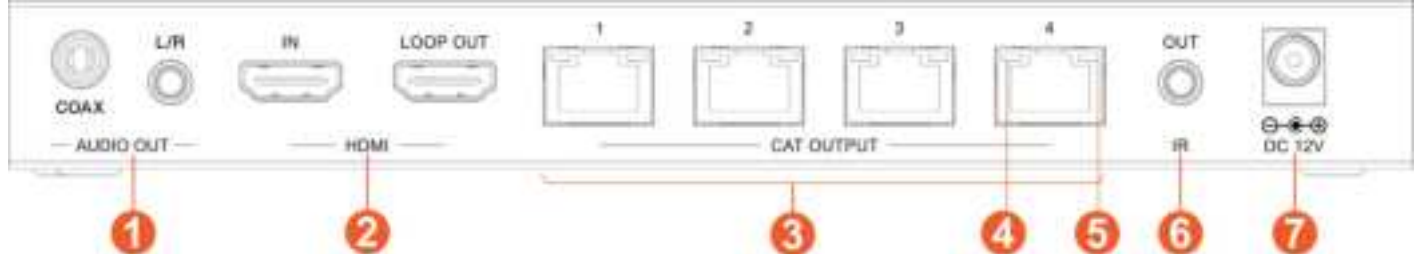
TRANSMITTER

FRONT PANEL



- 1 POWER SWITCH:** Press this switch to power on/off the device.
- 2 POWER LED:** When the device is powered on, the red power LED will be on.
- 3 IN LED:** When the HDMI IN port connects an active source device, the green LED will be on.
- 4 LOOP LED:** When the HDMI LOOP OUT port connects an active display device, the green LED will be on.
- 5 OUT LED (1~4):** When the CAT OUTPUT port connects an active display device, the corresponding green OUT LED will be on.

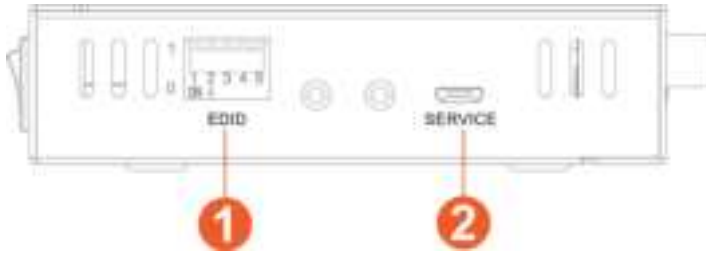
BACK PANEL



- 1 AUDIO OUT (COAX, L/R):** Coaxial/analog audio output port, connect to amplifier or speaker.
- 2 HDMI PORT:**
 - IN:** HDMI input port, connect to HDMI source device such as DVD or set-top box with an HDMI cable.
 - LOOP OUT:** HDMI loop output port, connect to the HDMI display device such as TV or Monitor with an HDMI cable.
- 3 CAT OUTPUT PORT (1~4):** Connect to the CAT IN port of the CAT receiver with a CAT cable.
- 4 LINK SIGNAL INDICATOR LAMP (GREEN):**
 - Illuminate:** Transmitter and receiver are connected.
 - Dark:** Transmitter and receiver are not connected.
- 5 DATA SIGNAL INDICATOR LAMP (ORANGE):**
 - Illuminate:** There is signal transmission between the transmitter and the receiver.
 - Dark:** No signal transmission.
- 6 IR OUT:** Connect the IR Blaster cable to transmit IR signal from the CAT receiver.
- 7 DC 12V:** Plug the DC 12V power supply into the unit and connect the adaptor to an AC outlet.
(Note: The transmitter can power the receiver via a CAT cable.)

TRANSMITTER

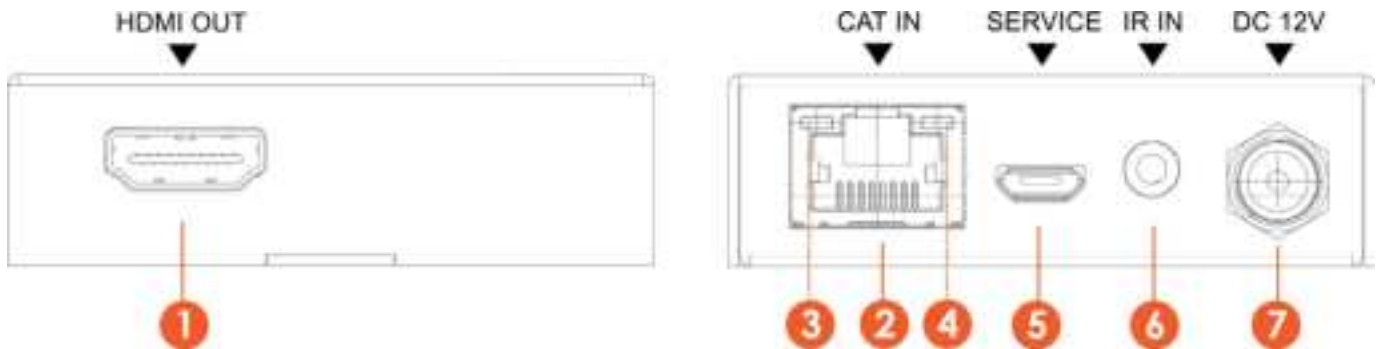
SIDE PANEL



① **EDID DIP SWITCH:** Used to set EDID mode. Please refer to Section “6. EDID Mode” for details.

② **SERVICE PORT:** (2) USB MICRO-B; Used for firmware update and serial port com. Please refer to “7. ASCII Commands”.

CAT RECEIVER



① **HDMI OUT:** HDMI output port, connect to HDMI display device such as TV or Projector with an HDMI cable.

② **CAT IN:** Connect to the CAT OUTPUT port on the transmitter with a CAT cable.

③ **POWER INDICATOR LAMP (GREEN):** When the receiver is powered on, the power indicator lamp will be on.

④ **DATA SIGNAL INDICATOR LAMP (ORANGE):** When there is signal transmission between the transmitter and the receiver, the lamp will be on.

⑤ **SERVICE PORT:** Used for firmware update.

⑥ **IR IN:** Connect to the IR Receiver cable. The IR signal will send to the IR OUT port of the transmitter.

⑦ **DC 12V:** Plug DC 12V/1A power supply into the unit and connect the adapter to an AC outlet.

(Note: The CAT receiver also can be powered by the transmitter via a CAT cable.)

EDID MODE

The defined EDID setting list of the product is shown as below:

EDID MODE	EDID DESCRIPTION
11111	1080P, Stereo Audio 2.0
11110	1080P, Dolby/DTS 5.1
11101	1080P, HD Audio 7.1
11100	1080I, Stereo Audio 2.0
11011	1080I, Dolby/DTS 5.1
11010	1080I, HD Audio 7.1
11001	1080P 3D, Stereo Audio 2.0
11000	1080P 3D, Dolby/DTS 5.1
10111	1080P 3D, HD Audio 7.1
10110	4K2K30Hz_444, Stereo Audio 2.0
10101	4K2K30Hz_444, Dolby/DTS 5.1
10100	4K2K30Hz_444, HD Audio 7.1
10011	4K2K60Hz_420, Stereo Audio 2.0
10010	4K2K60Hz_420, Dolby/DTS 5.1
10001	4K2K60Hz_420, HD Audio 7.1
10000	4K2K60Hz_444, Stereo Audio 2.0
01111	4K2K60Hz_444, Dolby/DTS 5.1
01110	4K2K60Hz_444, HD Audio 7.1
01101	4K2K60Hz_444, Stereo Audio 2.0 HDR
01100	4K2K60Hz_444, Dolby/DTS 5.1 HDR
01011	4K2K60Hz_444, HD Audio 7.1HDR
01010	COPY_FROM_LOOP OUT
01001	COPY_FROM_CAT OUT1
01000	COPY_FROM_CAT OUT2
00111	COPY_FROM_CAT OUT3
00110	COPY_FROM_CAT OUT4
00001	1080P, Stereo Audio 2.0
00100	1080P, Stereo Audio 2.0
00011	1080P, Stereo Audio 2.0
00010	1080P, Stereo Audio 2.0
00001	1080P, Stereo Audio 2.0
00000	PC control mode

ASCII COMMANDS

The product also supports ASCII command control. Connect the SERVICE port of the product to a PC with a USB -to- USB Micro-B cable. Then, open a Serial Command tool on PC to send ASCII commands to control the product. The ASCII command list about the product is shown as below.

SERIAL PORT PROTOCOL:

Baud rate: 115200

Data bits: 8 bit

Stop bits: 1

Check bit: 0

x - Parameter 1

y - Parameter 2

! - Delimiter

s = Set command

r = Report command

COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
POWER				
s power z!	Power on/off the device, z=0~1 (z=0 power off, z=1 power on)	s power 1!	Power on System Initializing... Initialization Finished! FW version x.xx.xx	POWER ON
r power!	Get current power state	r power!	power on/power off	
s reboot!	Reboot the device	s reboot!	reboot	
SYSTEM SETUP				
help!	List all commands	help!		
r type!	Get device model	r type!	ANI-0104POE-AU	
r status!	Get device current status	r status!	Get the unit all status: power, in/out connection, edid mode	
r fw version!	Get Firmware version	r fw version!	MCU BOOT: Vx.xx.xx MCU APP: Vx.xx.xx	
r link in!	Get the connection status of the input port	r link in!	HDMI IN: connect	
r link out y!	Get the connection status of the y output port, y=0~4 (0=all, 1~4=CAT 1~4)	r link out 1!	CAT OUT1: connect	
r link loop out y!	Get the connection status of the y loop output port, y=1	r link loop out 1!	HDMI LOOP OUT: connect	
s reset!	Reset to factory defaults	s reset!	Reset to factory defaults System Initializing... Initialization Finished! FW version x.xx.xx	
OUTPUT SETTING				
s hdmi stream z!	Set HDMI loop output stream on/off z=0~1 (0: disable, 1: enable)	s hdmi stream 1!	Enable HDMI loop out stream Disable HDMI loop out stream	ENABLE
s cat y stream z!	Set CAT output y stream on/off, y=0~4 (0=all) z=0~1 (0: disable, 1: enable)	s cat 1 stream 1! s cat 0 stream 1!	Enable CAT output 1 stream Disable CAT output 1 stream Enable CAT all outputs stream Disable CAT all outputs stream	ENABLE

ASCII COMMANDS

COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
OUTPUT SETTING				
r hdmi stream!	Get HDMI loop out stream status	r hdmi stream!	Enable HDMI loop output stream	
r cat y stream!	Get CAT output y stream status, y=0~4 (0=all)	r cat 1 stream!	Enable CAT output 1 stream	
s hdmi hdcp z!	Set HDMI loop output port HDCP status	s hdmi hdcp 1!	HDMI loop out HDCP on	ALL HDMI OUT HDCP ACTIVE
r hdmi hdcp!	Get HDCP status of loop out	r hdmi hdcp!	HDMI loop out HDCP on	
s cat y hdcp z!	Set CAT output y port HDCP status y=0~2 (0=all) z=0~1 (1=on, 0=off)	s cat 1 hdcp 1!	CAT out 1 HDCP on	ALL CAT OUT HDCP ACTIVE
r cat y hdcp!	Get HDCP status of CAT out y, y=0~2 (0=all)	r cat 1 hdcp!	CAT out 1 HDCP on	
s cat y dsc mode z!	Set CAT output y port DSC mode status y=0~8 (0=all) z=1~3 (1=CAT distance 50M, 2=CAT distance 35M Mode, 3=CAT distance 70M Mode)	s cat 1 dsc mode 2!	CAT out 1 DSC mode 2	CAT CABLE DISTANCE 70M
r cat y dsc mode!	Get DSC mode of CAT out y, y=0~4 (0=all)	r cat 1 dsc mode!	CAT out 1 DSC mode 2	
s audio mute 1!	Set audio output port mute status (1-mute, 0-umute)	s audio mute 1!	s audio mute 1	S AUDIO UNMUTE (0)
r audio mute!	Get audio output mute status	r audio mute!	audio mute 1	
EDID SETTING				
s edid in from z!	Set input EDID from default EDID z, z=1~26 1. 1080p, Stereo Audio 2.0 2. 1080p, Dolby/DTS 5.1 3. 1080p, HD Audio 7.1 4. 1080i, Stereo Audio 2.0 5. 1080i, Dolby/DTS 5.1 6. 1080i, HD Audio 7.1 7. 3D, Stereo Audio 2.0 8. 3D, Dolby/DTS 5.1 9. 3D, HD Audio 7.1 10. 4K2K30_444, Stereo Audio 2.0 11. 4K2K30_444, Dolby/DTS 5.1 12. 4K2K30_444, HD Audio 7.1 13. 4K2K60_420, Stereo Audio 2.0 14. 4K2K60_420, Dolby/DTS 5.1 15. 4K2K60_420, HD Audio 7.1 16. 4K2K60_444, Stereo Audio 2.0 17. 4K2K60_444, Dolby/DTS 5.1 18. 4K2K60_444, HD Audio 7.1 19. 4K2K60_444, Stereo Audio 2.0 HDR 20. 4K2K60_444, Dolby/DTS 5.1 HDR 21. 4K2K60_444, HD Audio 7.1 HDR	s edid in from 1!	input EDID: 1080p, Stereo Audio 2.0 Please toggle EDID dip switch to 00000!	1080P, STEREO AUDIO 2.0

COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
s edid in from z! CONT'D	22. Copy from HDMI loop out 23. Copy from CAT output 1 24. Copy from CAT output 2 25. Copy from CAT output 3 26. Copy from CAT output 4			
r edid in!	Get EDID status of the input	r edid in!	input EDID: 4K2K60_444, Stereo Audio 2.0	
r edid in data!	Get the EDID data of the HDMI input	r edid in data!	EDID data: 00 FF FF FF FF FF FF 00	

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- The screenshot shows the Visual Studio IDE with a C# project named 'TestProject1'. The 'Solution Explorer' on the left shows the project structure. The 'Code' window in the center displays a C# program that reads a file 'input.txt' and prints its contents. The 'Output' window at the bottom shows the program's output: 'input.txt contains 3 lines of text'.

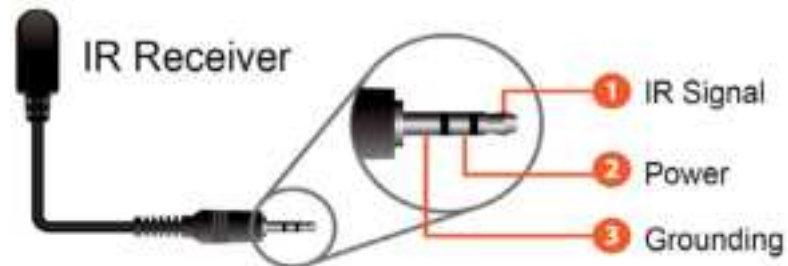
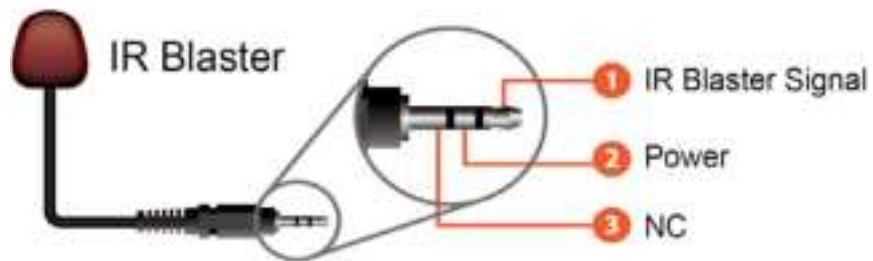
IR PIN DEFINITION



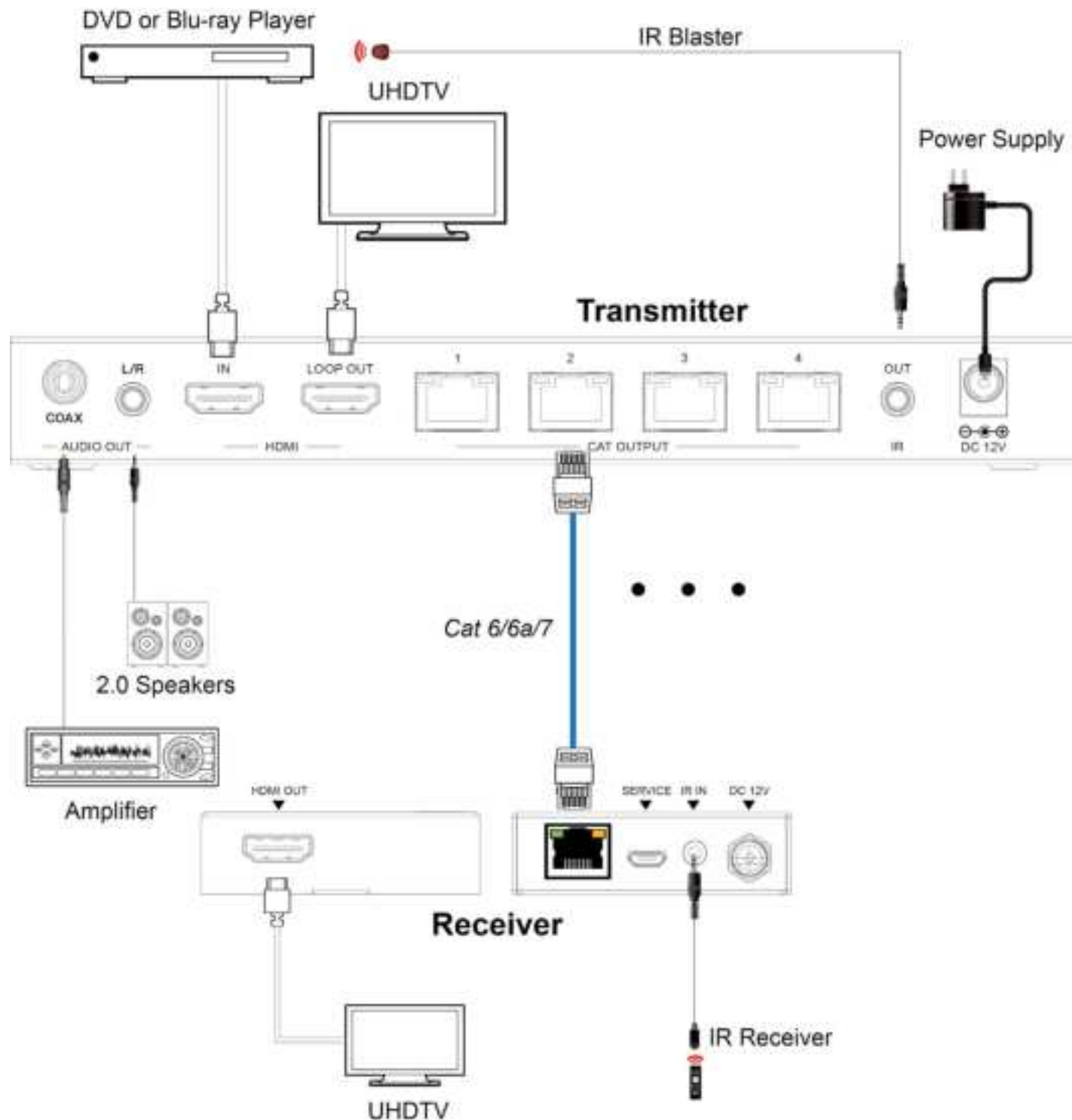
IR Receiver



IR Blaster



APPLICATION EXAMPLE



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