

Model : ATZ HDBT-E70B-TB-AEL

Description: HDBaseT Sender box 4K60 4:4:4 with audio embedder, HDMI loopout, POC, EDID (70m)



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ATZ HDBT-E70B-TB-AEL is a HDBaseT transmitter box, it supports no compression, no losses, no latency HDMI signal transmission. It can work with other HDBaseT equipment, such as Sony HDBaseT projector. All the signals are transmitted by one single CAT5E/6/7 cable. For 1080P it can transmit to a distance of 220ft (70m), or 4K60Hz at 110ft (35m). Compatible with all the HDTV resolutions, HDMI2.0 protocol. It also support bi-directional RS232 and IR transmission and realize the long distance control. Supports power over cable(POC), users only need to power one side; Supports 3.5mm Audio embedded and de-embedded function, for managing internal or external audio input and output. It supports EDID management, providing user flexibility to work with different displays. Support 1x HDMI loop-out for TX and 2x HDMI sync output for RX. So it can be efficiently deployed for use in media-conferencing room, school, government, cinema and other applications.

Features:

- Works with HDBaseT Receivers to form an Extender Kit
- Support up to 220ft (70m) at 1080p, and up to 110ft (35m) at 4K60 over single Cat5E/6/7 cable.
- Highest resolutions supported at 4k60 4:4:4
- Equipped with EDID management capability
- Bidirectional IR/Serial control signal transmission
- Power over Cable (POC) locally powered over Cat5e/6 cable at either end
- Supports 7.1 DTS Master HD, Dolby True HD, Audio embedded and de-embedded
- Support 1 HDMI loop out at TX and 2x HDMI sync output at RX

Specifications:

Model	ATZ HDBT-E70B-TB-AEL	ATZ HDBT-E70B-RB-AEL
Input	2x HDMI, 1x 3.5MM audio, 1x RS232, 1x IR_TX, 1x IR_RX	1x HDBaseT
Output	1x HDBaseT	2x HDMI, 1x 3.5MM audio, 1x RS232, 1x IR_TX, 1x IR_RX

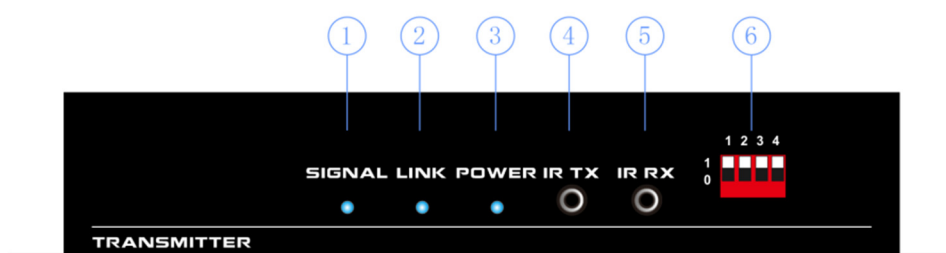
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Protocol	Support HDMI2.0 and HDCP; Support EDID management
Resolution	480i,576i,480p,576p,720p,1080i,1920x1080p60Hz, 3840x2160/30Hz,3840X2160/60 4096X2160/24Hz
Colour space	1080p: 36Bit Deep Color 4K60: 24Bit True Color, 4:4:4
Data rate	18Gbps
Transmit distance	CAT6: 1080p60Hz transmit 70m; 4K60Hz transmit 35m
Measure	152×100×27 (mm)
Weight	200g (excluding package and power adapter)
Power supply	AC: 100-240V 50/60Hz 1.5A Max DC: 12V 1500mA
Power consumption	≤11W
Working humidity	10%-90%
Working humidity	0°C-50°C

Panel & indicators

Transmitter front panel:



- ① System Indicator
- ② Connection Indicator
- ③ Power Indicator
- ④ IR transmitter port
- ⑤ IR receiver port
- ⑥ EDID DIP Switch

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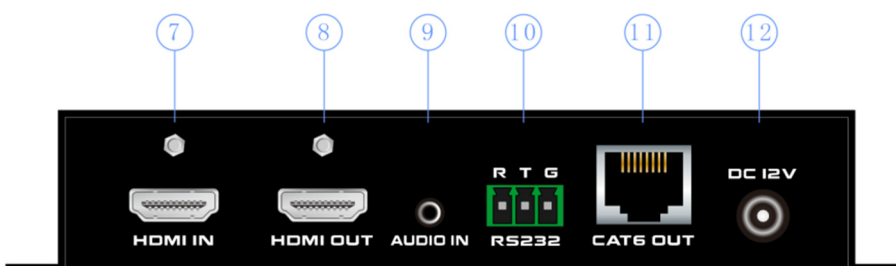
Indicator details:

POWER: The indicator will light up when power on.

LINK: It will light up when the transmitter and receiver connected successfully, flicking means connection is not stable, off means the connection is failed.

MODE: It will flash once per second if the system runs good, on the contrary, it will be off or light up.

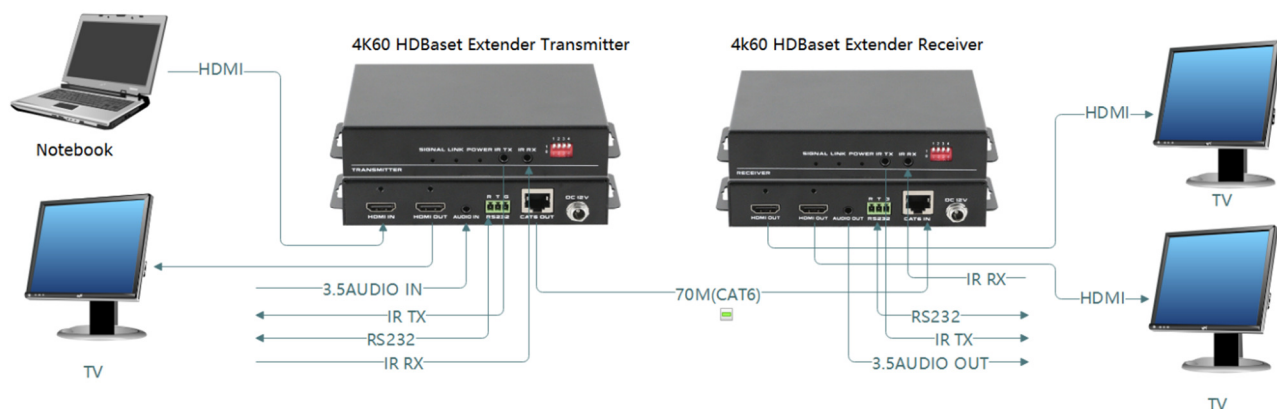
Transmitter back panel:



- ⑦ HDMI Input port
- ⑧ HDMI loop output
- ⑨ Audio output
- ⑩ 3-pin RS232 port
- ⑪ RJ45 Output port
- ⑫ DC12V input port

Operation:

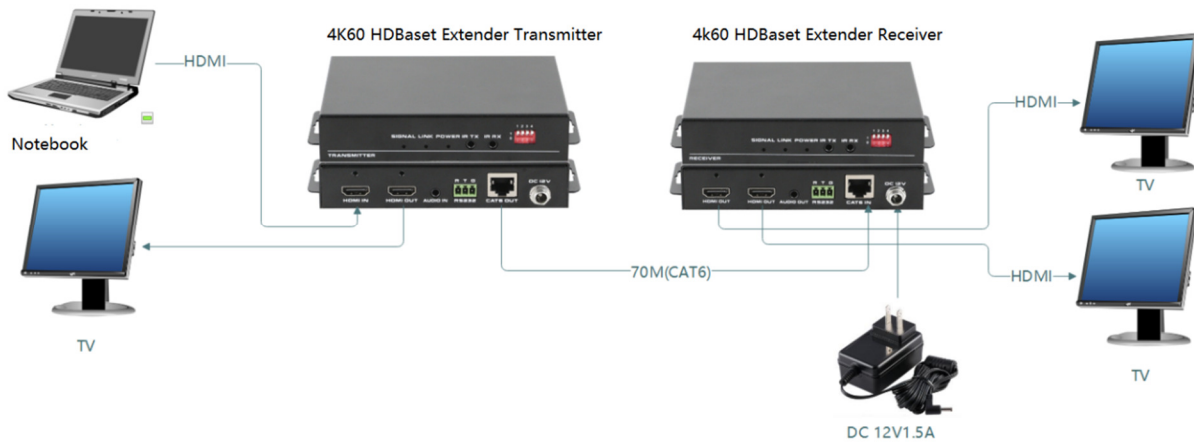
Connection Diagram



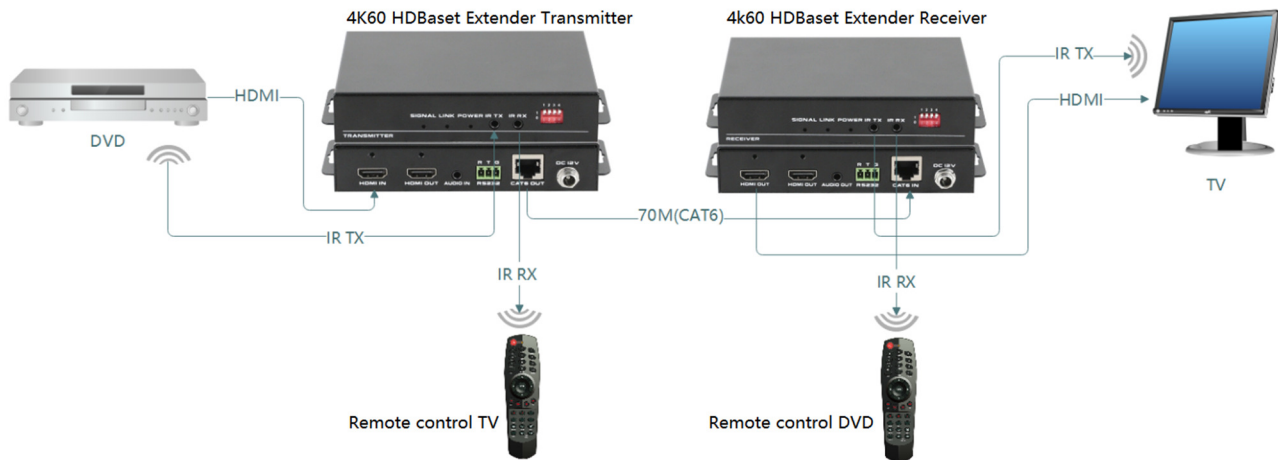
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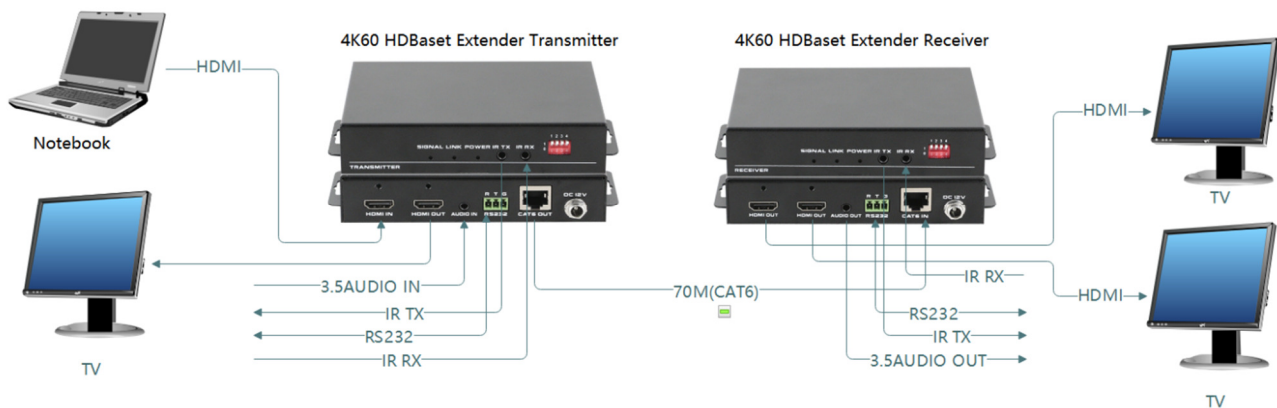
POC(Power over cable), only need to power on one end:



Bi-directional IR signal transmission:




RS232 signal transmission:



EDID management

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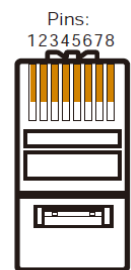
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EDID Management				Audio		Eg: ① If want to embed the external audio into the image, you need to set D4 switch to 1
D1	D2	D3		D4		
1	1	1	4K60	1	3.5MM	
1	0	0	1080P60hz	0	HDMI	
1	0	1	HDMI-1200			
0	1	1	1280x800			
0	0	1	DVI-1080			
0	1	0	DVI-1200			
1	1	0	4k2.1			
0	0	0	Internal EDID			

Note: If want to use the internal EDID, please Insert the display HDMI cable into the input terminal IN to learn the EDID, then set dip to 000, wait for 2 seconds and then connect normally.

RJ-45 cable using requests

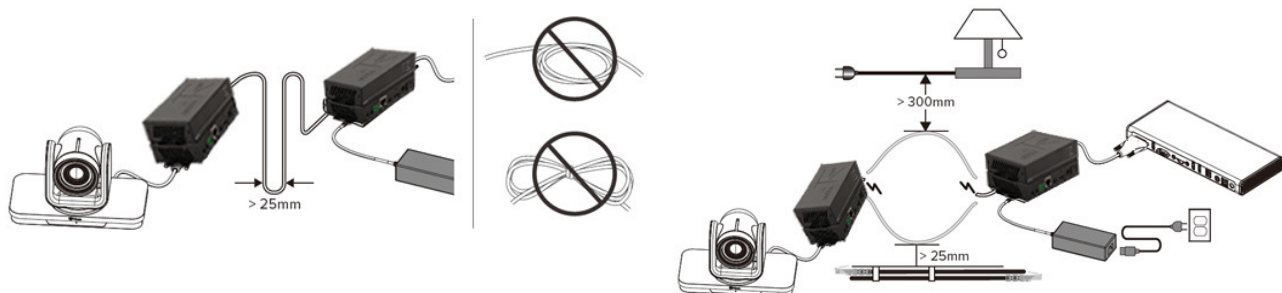
Cable sequence and recommended cable with 24 AWG metal conductor, shielded, minimum bandwidth is 400MHz, and shielded crystal heads at both ends.



↑
Insert Twisted
Pair Wires
RJ-45
Connector

TIA/EIA-T568B	
Pin	Wire Color
1	White-orange
2	Orange
3	White-green
4	Blue
5	White-blue
6	Green
7	White-brown
8	Brown

Wiring Requirements:



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Package Includes:

1x HDBT Transmitter
1x Power adapter (DC12V)
1x IR cable

Warranty: 2 Years

Warranty is effective from the date of original delivery.

This warranty shall be void if a serial number has been removed from the product.

HDMI[™]

HIGH DEFINITION MULTIMEDIA INTERFACE

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