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User Manual [v1.0]



Modular 1080P HDBaseT 100M Receiver

ZT-149 | ZT-MEXT-1080-BT100R

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1. Introduction

This lite version extender uses HDBaseT technology. There is no compression, no losses or latency. It can work with other HDBaseT equipment, such as HDBaseT projectors. All of the signals are transmitter via single CAT 5e/6/7 cable. For 1080P resolution, it can transmit to a distance of 70m (230ft.), and for 4K 60Hz (4:2:0), up to 35m (115ft.). This extender is compatible with all HDTV resolutions and supports HDCP 2.2 protocol, along with bi-directional RS232 and IR transmission for long distance control. Power over cable ensures that only one side requires power.

2. Features

- Transmit high quality audio/video signal; 1080P up to 230ft. and 4K 60Hz (4:2:0) up to 115ft. via single CAT5e/6/7 cable
- Supports full HD, UHD, and 4K 60Hz (4:2:0) resolutions
- HDMI 2.0 | HDCP 2.2 compliant
- Bi-directional IR / Serial control signal transmission
- Power over cable function
- Supports 7.1 DTS Master HD, Dolby True-HD
- LED indicators, EDID pass-through
- Supports CEC control

3. Specifications

	Transmitter	Receiver
Input	1 x HDMI 1 x RS232 1 x IR-TX 1 x IR-RX	1 x HDBaseT
Output	1 x HDBaseT	1 x HDMI 1 x RS232 1 x IR-TX 1 x IR RX

Protocol	HDMI 2.0 HDCP 2.2	HDMI 2.0 HDCP 2.2
Resolution	1920x1200, 1680x1050 1360x768, 1280x800 1920x1080, 1600x900 1366x768, 1280x720 1024x576, 1920x1200 1680x1050, 1360x768 1280x800, 4096x2160@30Hz 3840x2160@30Hz 3840x2160@60Hz	1920x1200, 1680x1050 1360x768, 1280x800 1920x1080, 1600x900 1366x768, 1280x720 1024x576, 1920x1200 1680x1050, 1360x768 1280x800, 4096x2160@30Hz 3840x2160@30Hz 3840x2160@60Hz
Color Space	1080p: 36-bit Deep color 4K: 24-bit True color 4:2:0	1080p: 36-bit Deep color 4K: 24-bit True color 4:2:0
Bandwidth	10.2Gbps	10.2Gbps
Transmission Distance	1080: 230Ft. 4K: 115Ft.	1080: 230Ft. 4K: 115Ft.
Dimension	115mm x 84mm x 16mm 4.5" x 3.3" x 0.6"	115mm x 84mm x 16mm 4.5" x 3.3" x 0.6"
Weight	120g 0.3lbs	120g 0.3lbs
Power	AC: 100-240V 50/60Hz 1.5A Max DC: 12V 1500mA	AC: 100-240V 50/60Hz 1.5A Max DC: 12V 1500mA
Consumption	<11W	<11W
Working Humidity	10% ~ 90%	10% ~ 90%
Working Temperature	0°C ~ 50°C	0°C ~ 50°C
Storage Temperature	-20°C - 75°C	-20°C - 75°C

4. Panels

4.1 Transmitter



- A. DC 12V power input port
- B. PoC Function on/off switch
- C. RJ45 Output port
- D. HDMI Input port
- E. 3-Pin RS232 port
- F. IR Transmitter port

- G. IR Receiver port
- H. Power indicator
- I. Link Indicator (indicator will light up when transmitter and receiver have connected successfully. Flickering means that the connection is not stable. Off means that the connection has failed.)
- J. Mode indicator (indicator will blink once per second if the system is running well.)

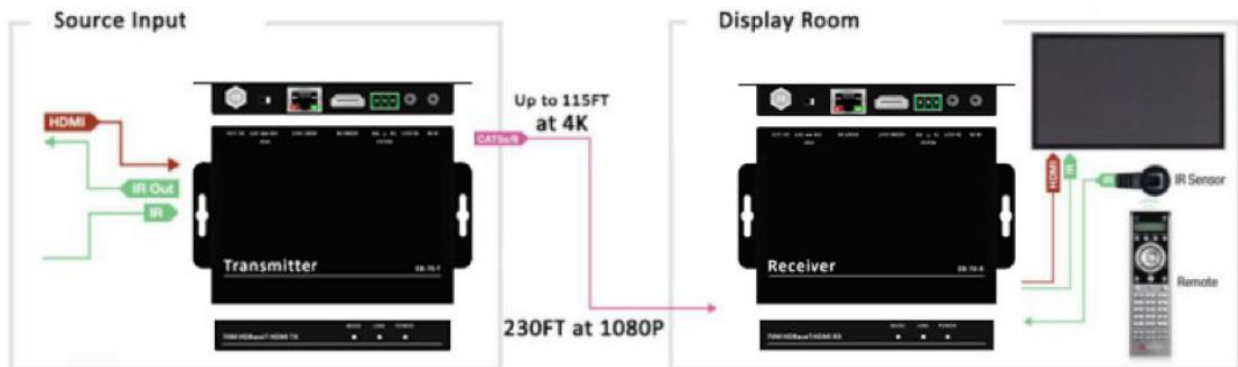
4.2 Receiver



- A. DC 12V power input port
- B. PoC Function on/off switch
- C. RJ45 Input port
- D. HDMI Output port
- E. 3-Pin RS232 port
- F. IR Transmitter port
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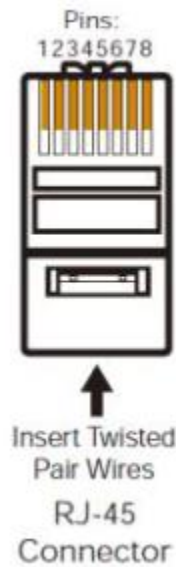
5. Operation

5.1 Connection Diagram



5.2 RJ-45 Connector

It is suggested to use twisted shielded pair 24AWG cable with a bandwidth of at least 400MHz, and crystal 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

6. Maintenance

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

7. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (5) Years”, 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.

8. 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.

9. 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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