

# TP-H20RrA-TR

HDMI 2.0 HDBeast Extender

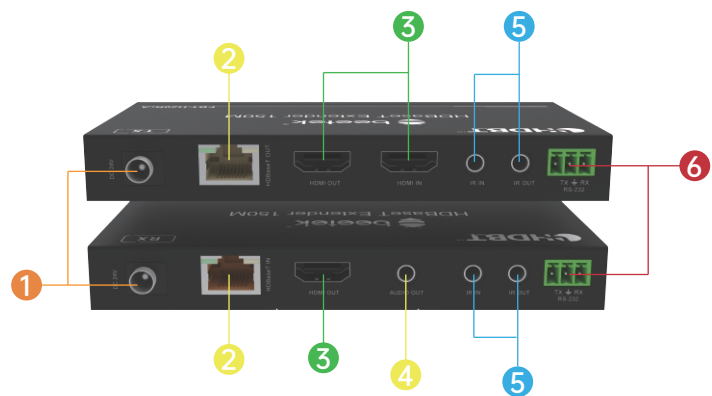
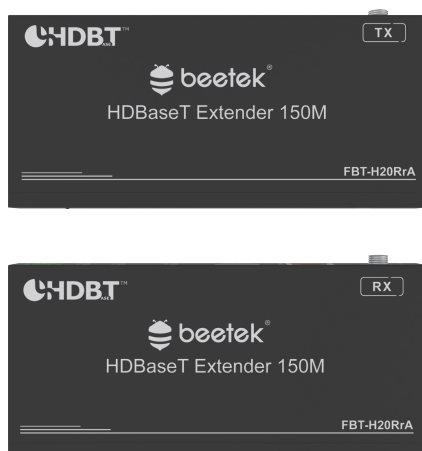
Product number:5.01

## Summary

**TP-H20RrA-TR** is an HDMI 2.0 HDBaseT extender that can transmit an HDMI 2.0 signal up to 120 meters at maximum resolution of 3840x2160@60Hz. It has a local HDMI output, two-way infrared, RS-232, audio de-embedding, and the receiver can be powered from the transmitter via PEO. The full-featured HDMI interface also supports HDCP, ARC, CEC, HLG and 3D, plug and play, making it suitable for fixed installation, residential and other applications.



## Product view

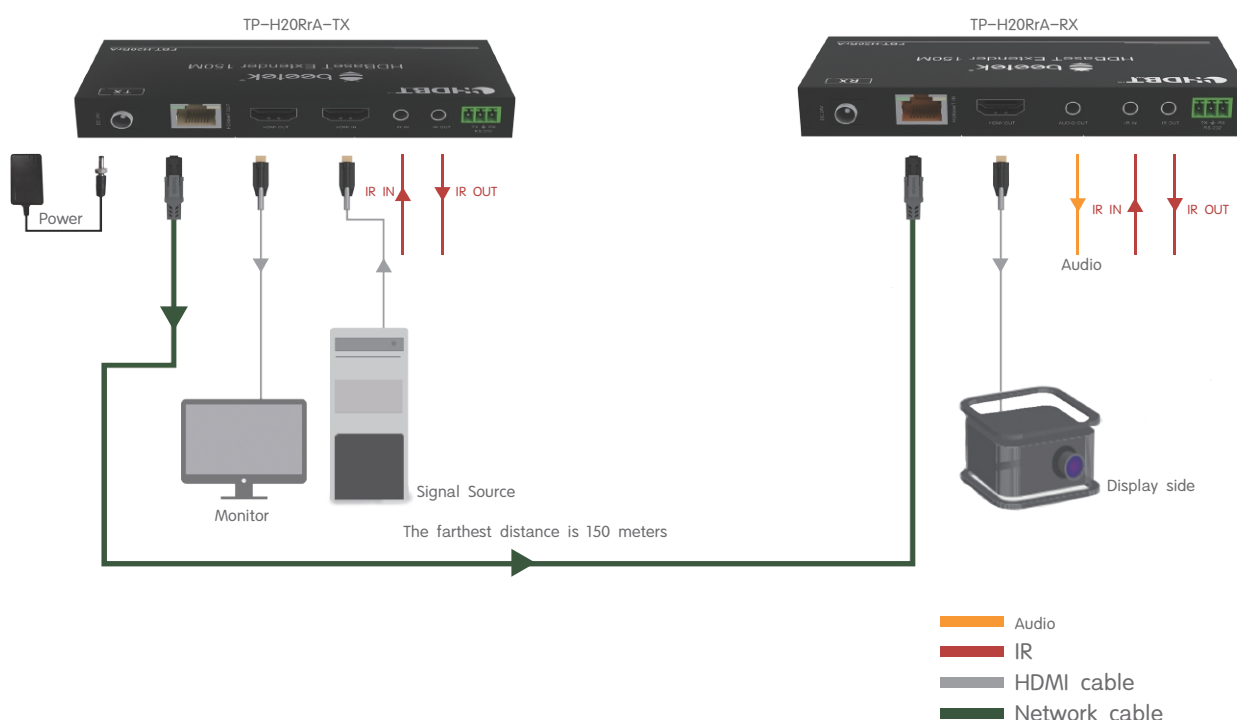


Nunumber	Name	Nunumber	Name
①	DC 24V	⑤	IR
②	RJ45	⑥	RS232
③	HDMI Type A Female		
④	3.5mm Audio		

## Technical Characteristics

- ✦ HDMI 2.0+RS232+IR CAT extender using HDBaseT technology.
- ✦ Uses standard CAT6 cable for point-to-point extension.
- ✦ Supports 3840 × 2160@60Hz transmission up to 120 meters and 1920 × 1080@60Hz transmission up to 150 meters.
- ✦ Transmitter has a local HDMI output for preview or other applications.
- ✦ Two-way RS-232 infrared interfaces for supporting transmission of control signals.
- ✦ Supports PoE remote power, so only one end requires a power supply.
- ✦ Full-featured HDMI 2.0 supports EDID transmission, CEC, HDR10+, ARC, HLG and 3D.
- ✦ Supports up to 7.1 channels of common HDMI embedded audio formats, PCM, Dolby, DTS-HD, etc.
- ✦ Receiver can de-embed the audio from HDMI to a stereo output.
- ✦ All ports have full ESD protection.

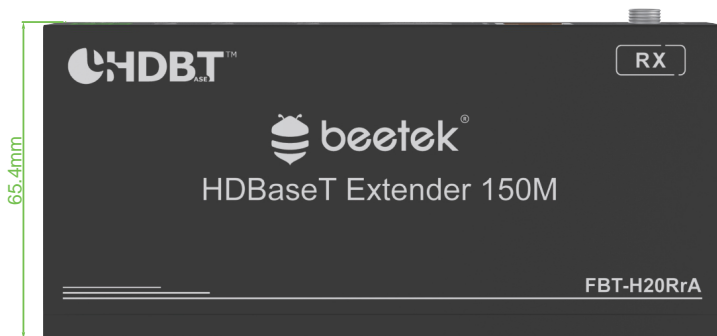
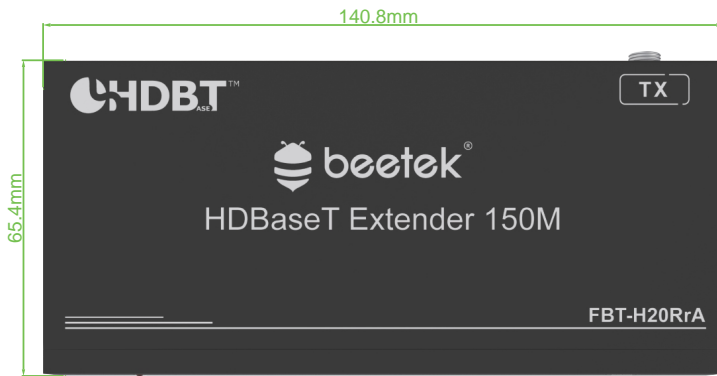
## Connection diagram



## Product parameter

Name	Parameter
Signal	HDMI 2.0
Input Connector	TX : HDMI Type A Female, RS232, IR RX: RJ45, RS232, IR
Output Connector	TX : RJ45, HDMI Type A Female, RS232, IR RX: HDMI Type A Female, RS232, IR, 3.5mm Audio
HDMI Loop-out	Yes
CAT Cable Type	CAT6 and above
Indicator LED	Power, Signal
Locking power connector	Yes
Power Consumption	DC 24V 2A
Working Temp	-20°C ~ 70°C
Material	Metal mold
EDID	Pass-through
DDC	Yes
IR	Supports bidirectional IR
RS232	Supports bidirectional RS232
HHDMI Audio	Yes
HDMI Audio De-embedding	Yes
3D	Yes
CEC	Yes
ARC	Yes
HDCP	Yes
HDR	Yes
XvYCC Color Space	Yes
POE	Yes
Technical Characteristics	HDBeast
Resolution	3840 * 2160@60Hz
Transmission Distance	120 meter for 4K@60Hz with CAT6 cable
Clock Bandwidth	600MHz *3
Transmission Speed	18Gbps
Balancing Chip	Automatic equalization
Reclocking	Yes
ESD Protection	Yes
Hot Plug	Yes
Delay	Zero frame-delay
Compression	None
Sampling Rate	Bandwidth Range: 8~16bit
Sampling Ratio	RGB 4:4:4 、YUV 4:4:4、YUV 4:2:2、YUV 4:2:0

## Dimensional drawing



- Dimensions 140.8\*65.4\*18.5mm
- Weight TX; 250g ; RX;250g
- Package Dimensions 248\*189\*79mm
- Packaging Weight 0.9KG