

# EXP-HDBASET-100

HDMI Extender HDBaseT



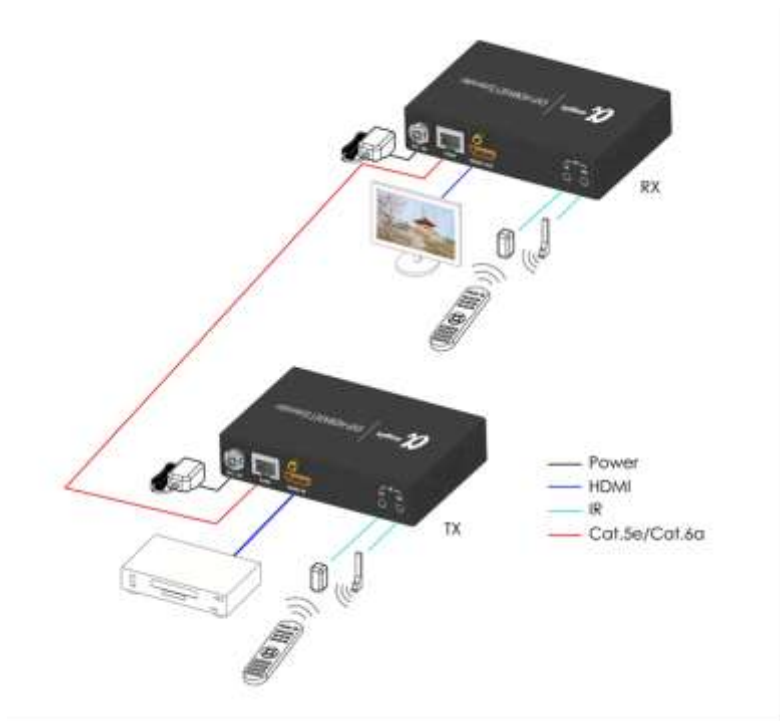
# Introduction

EXP-HDBASET-100 with us allows one HDMI, Bi-direction IR to be connected up to 60 meters via single CAT.6 cable for Computer, Laptop, BD Player, Game Console and others HDMI source devices. Supporting 4Kx2K/30Hz UHD resolution with 8bit deep color and lossless compressed audio that make EXP-HDBASET-100 a smart choice for home entertainment, company conference, commercial advertising and other applications.

## Features

- HDMI Source device includes Set-Top Box, BD Player, Computer, Laptop, Game Console, Media Player and Camcorder.
- HDMI Sink device includes LED/LCD Monitor, LED/LCD TVs, Projector and AV Receiver.
- HDMI 2.0 Premium Certified Cable-Highly recommended
- Standard 24AWG Cat.5e, Cat.6 or Cat.7 Cable-Highly recommended

# STRUCTURE DIAGRAM

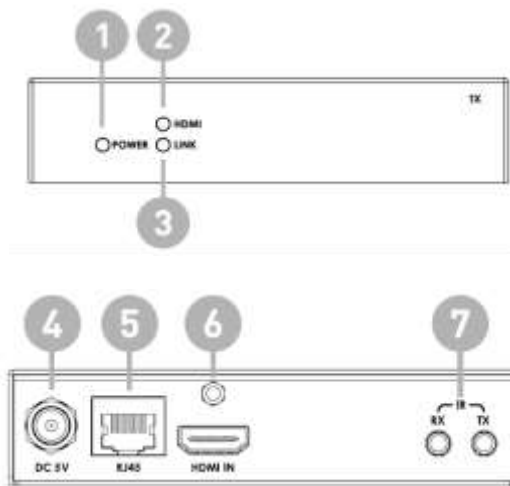


# Specification

Model No	EXP-HDBASET-100 TX	EXP-HDBASET-100 RX
HDMI Bandwidth	340MHz	
HDMI Resolution	720P/1080P(60m),4K30 4:4:4(40m),4k60 4:2:0(40m)	
Audio Format	LPCM、DTS Digital, Dolby Digital	
HDCP	1.4/2.2	
Input Port	HDMI x 1	RJ45 x 1
Output Port	RJ45 x 1	HDMI x 1
Control Port	IR Blaster x 1 - 3.5mm IR Receiver x 1 - 3.5mm	
IR Frequency	20-60Khz	
Power Supply	5VDC / 2.0 Amp	
Power Consumption	10W - Max.	
Housing Material	Metal	
Housing Color	Black	
Operating Temperature	0°C - 40°C / 32°F - 104°F	
Storage Temperature	-20°C - 85°C / -4°F - 185°F	
Humidity	0 - 95% RH (Non-Condensing)	
Dimension	112 mm X 76 mm X 25 mm	
Weight	600 g	

# Product Diagram

## Transmitter Panel



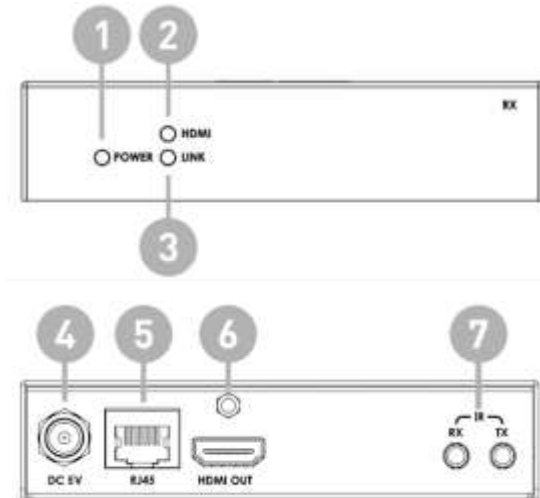
1. POWER LED : This LED will illuminate when power adapter plug in EXP-HDBASET-100 TX.
2. HDMI LED : This LED will illuminate when TX connect compatible RX and HDMI signal start to transmission.
3. LINK LED : This LED will illuminate when TX connect compatible RX and RJ45 signal start to transmission.
4. DC IN : 5VDC / 2.0 Amp Locking Power Jack
5. RJ45: Connect to EXP-HDBASET-100 Receiver with single Cat.6 cable for HDMI, IR Blaster, IR Receiver signal transmission.
6. HDMI IN : Connect to HDMI source devices, such as SetTop Box, BD Player, Computer, Laptop, Game Console, Media Player and

Camcorder.

7. IR RX : Receiving IR signal to remote control HDMI sink devices via IR Receiver Cable.

IR TX : Transmitting IR signal to remote control HDMI source devices via IR Blaster Cable.

## Receiver Panel

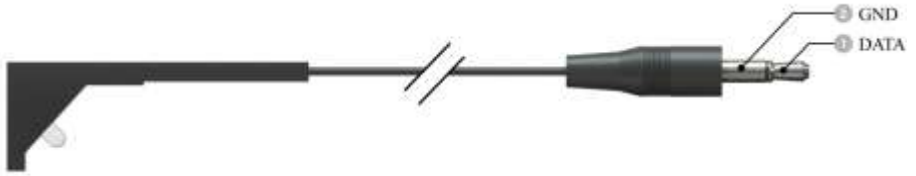


1. POWER LED: This LED will illuminate when power adapter plug in EXP-HDBASET-100 TX.
2. HDMI LED : This LED will illuminate when TX connect compatible RX and HDMI signal start to transmission.
3. LINK LED : This LED will illuminate when TX connect compatible RX and RJ45 signal start to transmission.
4. DC IN : 5VDC / 2.0 Amp Locking Power Jack
5. RJ45 : Connect to EXP-HDBASET-100 Transmitter with single Cat.6 cable for HDMI, IR Blaster, IR Receiver signal transmission.
6. HDMI OUT : Connect to HDMI sink devices, such as LED/LCD Monitor, LED/LCD TVs, Projector and AV Receiver.
7. IR RX : Receiving IR signal to remote control HDMI source devices via IR Receiver Cable.

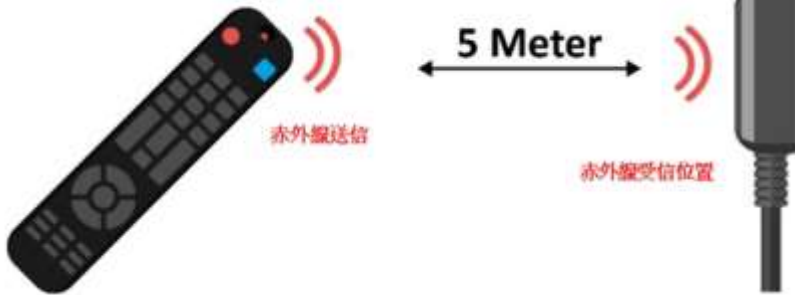


8. IR TX : Transmitting IR signal to remote control HDMI sink devices via IR Blaster Cable..

# IR Pin Assignment



For best performance, place the infrared emitter close to the display receiver.



For best reception, make sure the area around the receiver is free of obstructions.

## RS232 Pin Assignment



# Cable Specifications

Cable Length	1080p/60Hz 8 bit	4K/30Hz 8 bit 4:4:4	4K/60Hz 8 bit 4:2:0
HDMI Cable	2m	2m	2m
Cat.5e/6/6e/7	60m	40m	40m

# Resolution Specifications

Supported Resolutions (Hz)
720x480i@60
720x480p@60
720x576i@50
720x576p@50
800x600p@56 60 72 75
1024x768@60 70 75
1280x720p@50 60
1280x768p@60RB/60 75 85
1280x800p@60RB/60 75 85
1280x960@60 85
1280x1024@60 75 85
1360x768@60
1366x768p@60RB 60

1440x900p@60RB 60 75
1600x1200p@60
1680x1050p@60RB 60
1920x1080i@50 60
1920x1080p@24 25 30
1920x1080p@50 60
1920x1200p@60RB
2560x1440p@60RB
2560x1600p@60RB
2048x1080p@50 60
3840x2160p@24 25 30(4:4:4 40m Cat. 5e/6)
3840x2160p@50 60 (4:2:0 40m Cat. 5e/6)