



Product Datasheet

HDMI Extender HDBaseT(150m)with KVM

AHDEX-V20150KVM



Features

- HDMI2.0b, HDCP 2.2 and USB 1.1 compliant
- Support 18Gbps video bandwidth
- Support video resolution up to 4K2K@60Hz RGB/YCBCR 4:4:4
- The transmission distance can be extended up to 492ft / 150m at the resolution of 1080P@60Hz, or 394ft / 120m at 4K2K@60Hz 4:4:4 via a single CAT6 cable
- Support bi-directional IR signal and USB KVM signal pass-through
- Support bi-directional POC (Power over Cable) function
- Compact design for easy and flexible installation

Package Contents

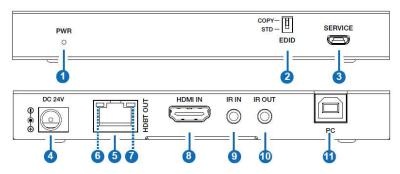
- 1. 1 x 18Gbps HDMI Extender (Transmitter)
- 2. 1 x 18Gbps HDMI Extender (Receiver)
- 3. 1 x IR Blaster cable (1.5 meters)
- 4. 1 x IR Wideband Receiver cable (1.5 meters)
- 5. 1 x USB cable (1.5 meters)
- 6. 4 x Mounting Ears
- 7. 8 x Machine Screws (KM3*4)
- 8. 1 x 12V/1A Locking Power Adapter

Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@60Hz YUV 4:4:4
USB Compliance	USB 1.1
IR Level	5Vp-p
IR Frequency	Wideband 20K-60KHz
TransmissionDistance	1080P@60150m, 4K60120m
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2
Color Depth	8-bit, 10-bit, 12-bit (1080P@60Hz)8-bit (4K2K@60Hz YUV4:4:4)
	8-bit, 10-bit, 12-bit (4K2K@30Hz)
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Format	LPCM 7.1CH, Dolby True HD, and DTS-HD Master Human body model — ±8kV (Air-gap discharge) &
ESD Protection	±4kV (Contact discharge)
Connection	. (** ***** 50)
Transmitter	Input: 1×HDMI IN [Type A, 19-pin female]1×IR IN [3.5mm Stereo Mini-jack] 1×SERVICE [Micro-USB jack] 1×USB [USB-B, 4-pin female] Output: 1×HDBT OUT [RJ45] 1×IR OUT [3.5mm Stereo Mini-jack]
Receiver	Input: 1×HDBT IN [RJ45 with light] 1×IR IN [3.5mm Stereo Minijack]1×SERVICE [Micro-USB jack] Output: 1×HDMI OUT [Type A, 19-pin female]1×IR OUT [3.5mm Stereo Mini-jack] 2×USB [USB-A, 4-pin female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver:140mm (W)×65mm (D)×18mm (H)
Weight	Transmitter: 246g, Receiver: 246g
Power Supply	DC 24V/1A; Support POC function
Power Consumption	10W
Operating 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)

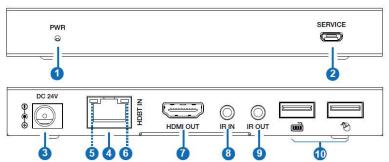
Operation Controls and Functions

Transmitter Panel



No.	Name	Function Description
1	PWR LED	The red LED is on when the Transmitter is powered on.
2	EDID DIP switch	Used for EDID setting (dial to COPY by default). COPY: Copy the EDID of the HDMI OUT port of Receiver.STD: Default 1080P 2CH
3	SERVICE	Firmware update port.
4	DC 24V	DC 24V/1A power input port. Note that the extender supports POC function, it means that either Transmitter or Receiver is connected to 24V/1A power supply, the otherdoesn't need power supply.
5	HDBT OUT	HDBT output port, connecting to the HDBT IN port of the Receiver with CAT6 cable.
6	Link Signal Indicator (Green)	 Illuminating: Transmitter and Receiver are in good connectionstatus. Flashing: Transmitter and Receiver are in poor connection status. Dark: Transmitter and Receiver are not connected.
7	Data Signal Indicator (Yellow)	Illuminating: HDMI signal with HDCP.Flashing: HDMI signal without HDCP.Dark: No HDMI signal.
8	HDMI IN	HDMI signal input port, connecting to HDMI source device such as DVD play or Set Top Box.
9	IR IN	Connect to IR receiver cable, the IR receive signal will emit to the IR OUT port of the Receiver.
10	IR OUT	Connect to IR blaster cable, the IR emit signal is from the IR IN port of the Receiver.
11	PC	USB-B port, connecting to PC.

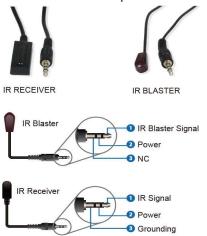
Receiver Panel



No.	Name	Function Description
1	Power LED	The power LED is on when the Receiver is powered on.
2	SERVICE	Firmware update port.
3	DC 24V	DC 24V/1A power input port. Note that the extender supports POC function, it means that either Transmitter or Receiver is connected to 24V/1A power supply, the other doesn't need power supply.
4	HDBT IN	HDBT input port, connecting to the HDBT OUT port of Transmitter with CAT6 cable.
5	Link Signal Indicator (Green) Data Signal	 • Illuminating: Transmitter and Receiver are in good connectionstatus. • Flashing: Transmitter and Receiver are in poor connection status. • Dark: Transmitter and Receiver are not connected. • Illuminate: HDMI signal with HDCP.
6	Indicator (Yellow)	• Flash: HDMI signal without HDCP. Dark: No HDMI signal.
7	HDMI OUT	HDMI signal output port, connecting to HDMI display device such as TV or monitor.
8	IR IN	Connect to the IR receiver cable. The IR signal will send to the IR OUT port of the Transmitter.
9	IR OUT	Connect to the IR blaster cable, the IR signal is from IR IN port of the Transmitter.
10	USB ports	Two USB-A ports, connecting to keyboard and mouse respectively.

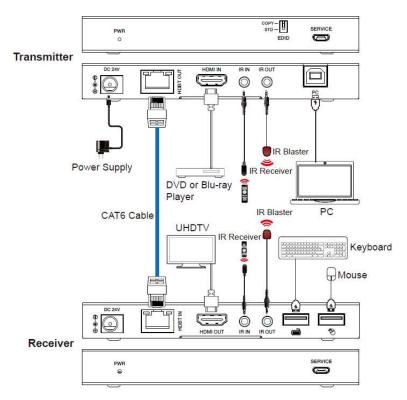
IR Pin Definition

IR Receiver and Blaster pin's definition is as below:



When the angle between the IR receiver and the remote control is \pm 45 °, the transmission distance is 0-5 meters; When the angle between the IR receiver and the remote control is \pm 90 °, the transmission distance is 0-8 meters.

Application Example





The terms HDMI and HDMI High-Definition Multimedia interface, and the HDMI Logoare trademarks or registered trademarks of HDMI Licensing LLC in the United Statesand other countries.

Company Contact

Address: 55-11, 1st Floor, Jalan Bentayan, Taman Sri Emas,84000 Muar. Johor. Malaysia.

Email: sales@asuka.my