Transmitter

Receiver

18Gbps HDBaseT Extender with KVM 150m

This 18Gbps HDBaseT Extender can extend HDMI signal, bi-directional IR control signal and USB KVM signal to a distance up to 150m via a single CAT6 cable. This product converts HDMI signal to standard HDBaseT signal and transmits it through LAN cable. It can easily control the signal source devices or display devices from the remote end through a bi-directional IR signal pass-through function. Video resolution up to 4K2K@60Hz YUV 4:4:4. It also supports USB KVM and POC functions.

The extender can be widely used in other fields such as video conference systems, multimedia signal broadcasting, HDMI signal extension, etc.

Featured Highlights

- HDMI2.0b, HDCP 2.2, and USB 1.1 compliant
- Supports 18Gbps video bandwidth
- Supports video resolution up to 4K2K@60Hz YUV 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
- Supports bi-directional IR signal and USB KVM signal pass-through
- Supports bi-directional POC (Power over Cable) function
- Compact design for easy and flexible installation

SPECIFICATIONS

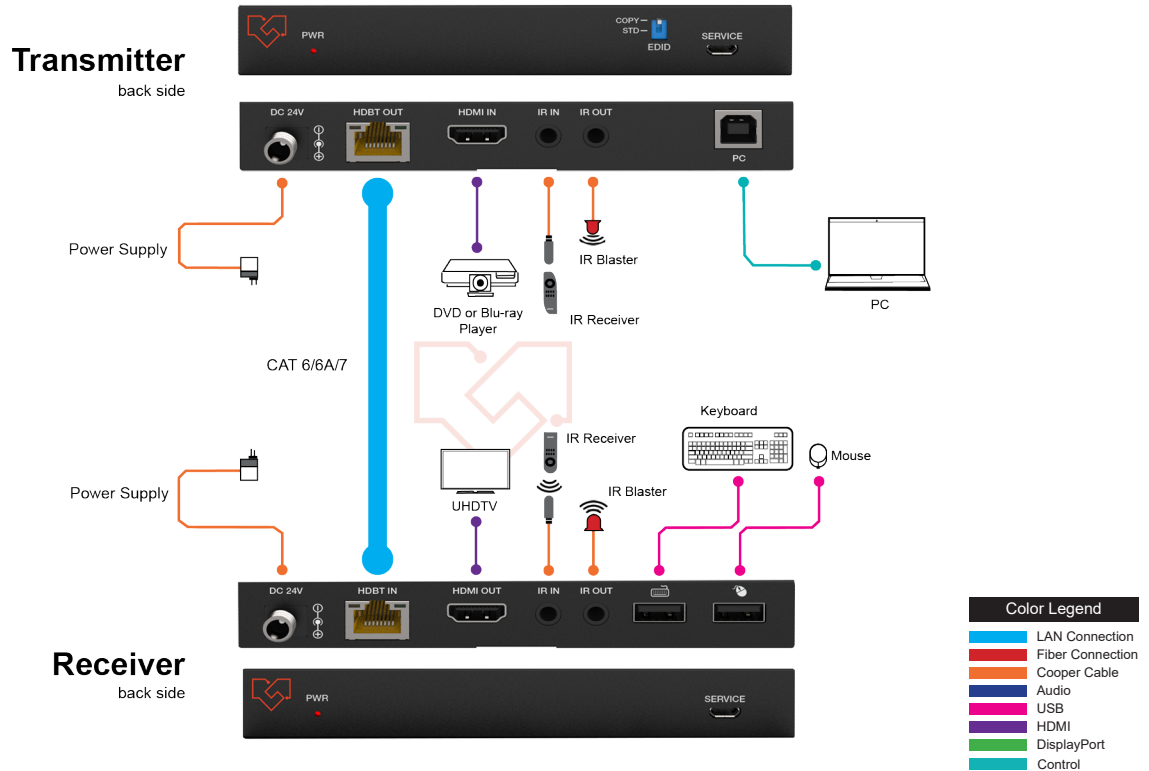|	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@60Hz YUV 4:4:4
USB Compliance	USB 1.1
IR Level	5Vp-p
IR Frequency	Wideband 20K-60KHz
Transmission Distance	1080P@60--150m, 4K60 --120m
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2
Color Depth	8-bit, 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
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimension	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-condensation)

CONNECTIONS

Transmitter	Input: 1×HDMI IN [TypeA, 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]

CONNECTIONS

Receiver	Input: 1×HDBT IN [RJ45 with light] 1×IR IN [3.5mm Stereo Mini-jack] 1×SERVICE [Micro-USB jack] Output: 1×HDMI OUT [TypeA, 19-pin female] 1×IR OUT [3.5mm Stereo Mini-jack] 2×USB [USB-A, 4-pin female]

APPLICATION EXAMPLE

Transmitter back side

Power Supply

DVD or Blu-ray Player

IR Blaster

IR Receiver

PC

CAT 6/6A/7

Receiver back side

Power Supply

UHDTV

IR Receiver

IR Blaster

Keyboard

Mouse

Color Legend
- LAN Connection
- Fiber Connection
- Cooper Cable
- Audio
- USB
- HDMI
- DisplayPort
- Control

Applications   Digital Signage, Conference Rooms, Operating Rooms and Audio-Video Rooms

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