18Gbps HDBaseT Extender with USB 2.0 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 a LAN cable. It can easily control the signal source device or display device 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 2.0 transmission and POC function.

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

2 Units: Transmitter and receiver units.

Featured Highlights

- HDMI 2.0b, HDCP 2.2 compliant
- Up to 4K / 2K @60Hz with 24bit RGB / YCbCr (4:4:4)
- HDR, HDR10, HDR10+, Dolby Vision pass through
- Supports LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- Up to 120m (4K) and 150m (1080P) using CAT6/6A cable
- Two-way IR transmission
- USB 2.0 protocol, transmission rate up to 480Mbps transmission
- EDID management
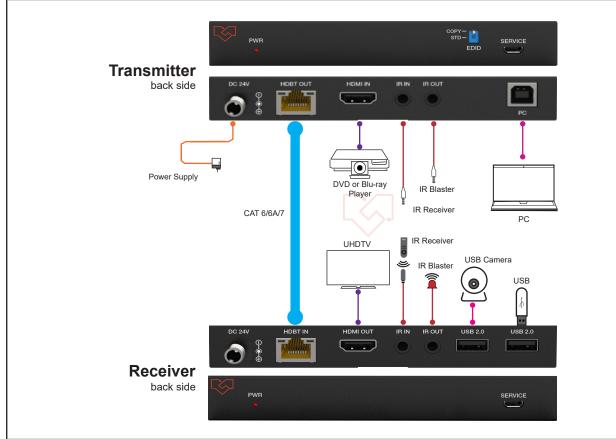- Two-way PoC (Power over Cable)

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 2.0
IR Level	5Vp-p
IR Frequency	Wideband 20K-60Khz
Transmission Distance	1080p@60-150m, 4K60-120m
Color Space	RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8-bit, 10-bit, 12-bit (1080P) 8-bit (4K60) 8-bit, 10-bit, 12-bit (4K24/30)
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	LPCM 7.1CH, Dolby True HD and DTS-HD Master
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

CONNECTIONS

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 Mini jack] 1×SERVICE [Micro-USB jack] Output: 1×HDMI OUT [Type A, 19-pin female] 1×IR OUT [3.5mm Stereo Mini-jack] 2×USB 2.0 [USB-A, 4-pin female]

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 140mm [W] x 65mm [D] x 18mm [H]
Weight	Transmitter: 245g, Receiver: 249g
Power Supply	DC 24V/1A; Support bi-directional POC function
Power Consumption	13.2W (Max.)
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 (no condensation)

Classic Application Example

Transmitter back side

Power Supply

DVD or Blu-ray Player

IR Blaster

IR Receiver

PC

CAT 6/6A/7

UHDTV

IR Receiver

IR Blaster

USB Camera

USB

Receiver back side

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

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