



1. Introduction

This 18Gbps HDMI Extender can extend high definition video / audio signal, RS-232, bi-directional IR, and the distance is up to 492ft / 150 meters between transmitter and receiver via a single CAT cable. It supports resolution up to 4K2K@60Hz 4:4:4, 18Gbps and HDCP 2.2. One HDMI loop port is available for output. It also supports de-embedded audio for L/R audio output and PoC function. In addition, the extender is equipped with two-way IR pass-through which allows for source and display control.

This HDMI extender includes two units: transmitter unit and receiver unit. The transmitter unit is responsible for capturing HDMI input signal and carrying the signal via one cost effective Cat5e/6 cable, and transmitting / emitting IR control signals. The receiver unit is responsible for receiving the HDMI signal and transmitting / emitting IR control signal.

The extender offers the most convenient solution for HDMI extension via a single Cat5e/6 with long distance capability, and is the perfect solution for any application.

2. Features

- HDCP 2.2 / HDCP 1.4 and DVI 1.0 compliant
- Support 18Gbps video bandwidth
- The maximum extended transmission distance via a single Cat5e/6 cable:
394ft / 120 meters for 4K2K signal;
492ft / 150 meters for 1080P signal
- Support one HDMI loop output on the transmitter
- De-embedded audio to analog stereo output on receiver
- With bi-directional IR, RS-232 and CEC pass-through
- HDR, HDR10+, Dolby Vision and HLG function supported
- Support PoC (Power over Cable) function
- Compact design for easy and flexible installation

3. Package Contents

- 1 x 18Gbps HDMI over HDBaseT Extender (Transmitter)
- 1 x 18Gbps HDMI over HDBaseT Extender (Receiver)
- 1 x IR Blaster cable (1.5 meters)
- 1 x 20~60KHz IR Receiver cable (1.5 meters)
- 4 x Mounting Ear
- 2 x 3-pin Phoenix connector
- 1 x 24V/1A Locking Power adapter
- 1 x User Manual

4. Specifications

Technical	
HDCP Compliance	HDCP 2.2 / HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	4K2K 50/60Hz 4:4:4 4K2K 50/60Hz 4:2:2 4K2K 50/60Hz 4:2:0 4K2K 30Hz 4:4:4 1080p, 1080i, 720p, 720i, 480p, 480i All HDMI 3D TV formats All PC resolutions including 1920 x 1200
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz, 4K60Hz YCbCr 4:2:2/4:2:0) 8-bit (4K60Hz 4:4:4)
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus(DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
L/R Audio Formats	PCM 2.0
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection			
Transmitter		Inputs: 1x HDMI Type A [19-pin female] Outputs: 1x HDMI Type A [19-pin female] 1x HDBT OUT [RJ45, 8-pin female] Control: 1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x SERVICE [Mini-USB, Update port]	
Receiver		Inputs: 1x HDBT IN [RJ45, 8-pin female] Outputs: 1x HDMI Type A [19-pin female] 1x AUDIO OUT [3.5mm Stereo Mini-jack] Control: 1x IR IN [3.5mm Stereo Mini-jack] 1x IR OUT [3.5mm Stereo Mini-jack] 1x RS-232 [Phoenix jack] 1x SERVICE [Mini-USB, Update port]	
Mechanical			
Housing		Metal Enclosure	
Color		Black	
Dimensions		Transmitter / Receiver: 140mm [W] x 65mm [D] x 18mm [H]	
Weight		Transmitter: 160g, Receiver: 155g	
Power Supply		Input: AC 100 - 240V 50/60Hz Output: DC 24V/1A (Locking connector)	
Power Consumption		9.36 W	
Operating Temperature		32 - 104°F / 0 - 40°C	
Storage Temperature		-4 - 140°F / -20 - 60°C	
Relative Humidity		20 - 90% RH (no condensation)	
Resolution / Distance			
4K2K		394ft / 120M	
1080P		492ft / 150M	
Resolution / Cable Length	4K60 - Feet / Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M
The use of "Premium High Speed HDMI" cable is highly recommended.			

5. APPLICATION EXAMPLE

