

HDBaseT 3.0 Extender with eARC/ARC (100m)



Introduction

This HDBaseT 3.0 Extender extends uncompressed HD/UHD video and audio signals, eARC/ARC, RS-232, bi-directional IR, 1G Ethernet and USB 2.0 signals up to 100m/328ft via a single CAT6A/7 cable. The Transmitter supports audio embedding or de-embedding. The Receiver supports audio de-embedding. It also supports eARC/ARC from RX's HDMI output pass through to TX's HDMI input or de-embedding to TX's HDMI audio only and SPDIF output ports, USB 2.0 (Host/Device is configurable) and bi-directional POC.

The Extender offers the most convenient solution for HDMI extension via a single CAT cable with long distance capability, and is the perfect solution for home/commercial applications.

Features

- HDMI 2.0b, HDCP 2.2 and HDBaseT 3.0 compliant
- Uncompressed 4K@60Hz 4:4:4 up to 18Gbps video bandwidth
- HDR, HDR10, HDR10+, Dolby Vision and HLG pass through
- LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24,
- DTS High Res, DTS-HD Master Audio, DSD pass through
- Transmission distance up to 328ft/100 meters via a single CAT 6A/7 cable
- Supports eARC/ARC function (the audio is returned to the HDMI IN port,
- HDMI OUT(AUDIO ONLY) port and SPDIF OUT port of the transmitter.)
- Supports SPDIF audio reverse transmission
- Bi-directional IR, RS-232 and 1G Ethernet signal pass through
- Supports USB 2.0 transmission, Host/Device is configurable
- Bi-directional 24V PoC function

Specifications

Technical		
HDMI Compliance	HDMI 2.0b	
HDCP Compliance	HDCP 2.2	
Video Bandwidth	18Gbps	
Video Resolution	Up to 4K@60Hz 4:4:4	
HDBaseT Bandwidth	16Gbps on main and 2Gbps on return link	
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG	
Colour Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0	
Colour Depth	8/10/12-bit	
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS HD Master Audio, DSD	
L/R Audio Formats	PCM 2.0	
SPDIF Audio Formats	LPCM 2.0, AC3 5.1, DTS 5.1	
IR Level	12V p-p	
IR Bandwidth	20K - 60KHz	
USB Bandwidth	Up to 350Mbps	
Ethernet	1000Mbps	
RS232	Up to 921600bps	
Transmission Distance	100m (via a single CAT6a/7 cable)	
ESD Protection	Human Body Example - +/-8kV (air gap discharge) & +/-4kV (contact discharge)	
Connections		
Transmitter	Inputs	1 x HDMI (Type-A, 19-Pin Female)
	Outputs	1 x HDMI (Type-A, 19-Pin Female)
		1 x HDBaseT (RJ45 Data Socket)
		1 x Optical (SPDIF)
		1 x Stereo Audio (3.5mm Jack Socket)
	Controls	1 x IR Input (3.5mm Jack Socket)
		1 x IR Output (3.5mm Jack Socket)
		1 x Service Port (mini USB)
		1 x USB Host (Type-B)
		2 x USB Devices (Type-A)
1 x 1G Ethernet (RJ45 Data Socket)		
1 x RS232 (3-Pin Phoenix Terminal)		
Receiver	Inputs	1 x HDBaseT (RJ45 Data Socket)
	Outputs	1 x Optical (SPDIF)
		1 x HDMI (Type-A, 19-Pin Female)
	Controls	1 x Stereo Audio (3.5mm Jack Socket)
		1 x IR Input (3.5mm Jack Socket)
		1 x IR Output (3.5mm Jack Socket)
		1 x Service Port (mini USB)
		1 x USB Host (Type-B)
		2 x USB Devices (Type-A)
		1 x 1G Ethernet (RJ45 Data Socket)
1 x RS232 (3-Pin Phoenix Terminal)		

Specifications (cont.....)

Mechanical		
Housing	Metal Enclosure	
Colour	Black	
Dimensions	Transmitter	(W) 170 x (D) 102 x (H) 22mm
	Receiver	(W) 170 x (D) 102 x (H) 22mm
Weight	Transmitter	425g
	Receiver	437g
Power Supply	Input	AC 100 - 240V 50/60Hz
	Output	DC 24V / 1A (US/EU standard, (CE/FCC/UL)
	Consumption	15.36W (PoC)
Operating Temperature	32 - 104°F / 0 - 40°C	
Storage Temperature	-4 - 140°F / -20 - 60°C	
Relative Humidity	20 - 90% RH (no condensation)	

Resolution / Cable Lengths	4K60 - Feet / Meters	4K30 - Feet / Meters	1080P60 = Feet / Meters
HDMI In / Out	16 Feet / 5 meters	32 Feet / 10 Meters	50 Feet / 15 Meters
The use of "Premium High Speed HDMI" Cables is highly recommended.			