HDBaseT 3.0 Extender 40M 4K60HZ USB

Introducing the 18Gbps HDBaseT 3.0 Extender, engineered to effortlessly extend uncompressed HDMI/USB-C signals, bi-directional IR, RS-232, and USB 2.0 signals across distances of up to 230ft/70m (4K30/1080P) or 131ft/40m (4K60) with just a single CAT6A/7 cable. With support for video resolutions up to 4K2K@60Hz YUV 4:4:4, this extender ensures crystal-clear visuals. The transmitter boasts 1x HDMI input, 1x USB-C input (60W charging), 1x USB Host, and 3x USB Device ports, while the receiver features 1x HDMI output and 2x USB Device ports. Both units support 3.5mm analog audio de-embedding, EDID management, bi-directional IR, and RS-232 signal pass-through. Plus, enjoy the convenience of a bi-directional 24V POC function. Ideal for home and commercial settings, this extender offers seamless integration and long-distance capability, delivering a hassle-free solution for video extension via a single CAT cable.

Feature Highlights

- HDMI 2.0b and HDCP 2.2 compliant for seamless compatibility
- Supports 18Gbps video bandwidth for high-quality transmission
- Accommodates video resolution up to 4K2K@60Hz (YUV 4:4:4) for stunning clarity
- Pass-through support for HDR, HDR10, HDR10+, Dolby Vision LLM, and HLG for vibrant visuals
- Allows pass-through of audio formats including LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, and more
- Transmission distances up to 230ft/70m (4K30/1080P) or 131ft/40m (4K60) via a single CAT6/6A cable
- Bi-directional Power over Cable (POC) eliminates the need for external power supplies at both ends
- Features 3.5mm analog audio de-embedding at both transmitter and receiver for versatile audio options
- Includes EDID management for simplified setup and configuration
- Supports bi-directional RS-232 signal pass-through, bi-directional IR signal control, and USB2.0 signal transmission for comprehensive connectivity
- Compact design enables easy and flexible installation in any environment

TECHNICAL

HDMI Compliance	HDMI 2.0b
HDCP Compliance	**HDCP 2.2**
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@60Hz
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color 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
IR Level	12Vp-p
Transmission Distance	4K60 / 40m; 4K30 / 70m; 1080P / 70m (CAT6/6A cable)

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 144mm [W] x 78mm [D] x 23mm [H]
Weight	Transmitter: 323g, Receiver: 319g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	14.28W (POC)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

CONNECTION

Transmitter	Input: 1 × HDMI IN [Type A, 19-pin female]
	Outputs: 1 × HDBaseT OUT [RJ45 connector]
	          1 × L/R OUT [3.5mm Stereo Mini-jack]
	Controls: 1 × IR IN [3.5mm Stereo Mini-jack]
	          1 × IR OUT [3.5mm Stereo Mini-jack]
	          1 × RS-232 [3pin-3.81mm Phoenix jack]
	          1 × SERVICE [Micro USB, 5-pin female]
	          1 × USB HOST [USB Type B]
	          2 × USB DEVICES [USB Type A]

CONNECTION

Receiver	Input: 1 × HDBaseT IN [RJ45, 8-pin female]
	Outputs: 1 × HDMI OUT [Type A, 19-pin female]
	          1 × L/R OUT [3.5mm Stereo Mini-jack]
	Controls: 1 × IR IN [3.5mm Stereo Mini-jack]
	          1 × IR OUT [3.5mm Stereo Mini-jack]
	          1 × RS-232 [3pin-3.81mm Phoenix jack]
	          1 × SERVICE [Micro USB, 5-pin female]
	          2 × USB DEVICES [USB Type A]

Classic Application Example

IR Receiver   IR Blaster

Transmitter

DVD or Blu-ray Player   PC1   Speakers   HDMI Matrix with RS-232 function

CAT6/6A cable

TV   Keyboard   Speakers   PC2

Receiver

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