USB-C/HDMI over HDBT 3.0 EXTENDER 70m with USB

This 18Gbps HDBaseT 3.0 Extender can extend uncompressed HDMI/USB-C signals, bi-directional IR, RS-232, and USB 2.0 signals up to 230ft/70m (4K30/ 1080P) or 131ft /40m (4K60) via a single CAT6A/7 cable. Video resolution is up to 4K2K@60Hz YUV 4:4:4. The transmitter features with 1x HDMI input, 1x USB-C input (60W charging), 1x USB Host and 3x USB Device ports. The receiver features with 1x HDMI output, 2x USB Device ports. Both transmitter and receiver support 3.5mm analog audio de-embedding, EDID management, bi-directional IR and RS-232 signal pass-through. This product supports bi-directional 24V POC function.

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

Feature Highlights

- Compliant with HDMI 2.0b and HDCP 2.3, 18Gbps video bandwidth
- HDBaseT 3.0 VS300R chipset based design
- Supports video resolution up to 4K2K@60Hz (YUV 4:4:4)
- Uncompressed video signal transmission distance can be extended up to 230ft/70m for 4K@30Hz, or 131ft/40m for 4K@60Hz over a single CAT6A/7 cable
- TX features with 1x HDMI input, 1x USB-C input, 1x HDBT output, 1x USB 2.0 host and 3x USB 2.0 clients
- RX features with 1x HDMI output, 2x USB 2.0 clients
- USB-C and HDMI signal inputs support auto or manual switching mode
- Auto switching supports HDMI 5V or signal detection selection
- USB-C supports DP-ALT mode for A/V, USB 2.0 data, and power charging up to 60 watts
- TX/RX USB-A client ports VBUS on or off depending on USB host is connected or not
- HDR, HDR10, HDR10+, Dolby Vision LLM and HLG pass-through
- 4K to 1080p downscaling features on HDMI output, no frame rate conversion
- Both TX and RX support analog audio de-embedding
- RS-232 signal pass-through and guest-mode control
- Supports bi-directional IR signal pass-through, USB 2.0 signal transmission
- Advanced EDID management
- Each USB-A port provides power up to 5V/500mA
- Supports bi-directional 24V POC, with POC switch
- Compact design for easy and flexible installation

TECHNICAL

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.3
USB Compliance	USB 2.0
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@60Hz 4:4:4
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12bit
IR Level	12Vp-p
IR Frequency	Wideband 20K-60KHz
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	HDMI/USB-C/HDBT: LPCM 2/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD 3.5mm Analog Audio: LPCM 2CH
Transmission Distance	4K60: 131ft/40m (CAT6A/7) 4K30/1080P: 230ft/70m (CAT6A/7)
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

MECHANICAL

Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter: 170mm [W] x 102mm [D] x 22mm [H] Receiver: 144mm [W] x 78mm [D] x 23mm [H]
Weight	Transmitter: 484g, Receiver: 318g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 24V/3.75A (US/EU standard, CE/FCC/UL certified)
Power Consumption	94.32W (Power supply from TX, 60W USB-C charging, POC to RX) 10.8W (Power supply from TX or RX, without USB-C charging)
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

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