EX-HDBT-100-U

**HDMI 8K 40 Gbps HDBaseT Extender
100 meters with USB/eARC/Ethernet**

FEATURE:

- HDMI 2.1, HDCP 2.3 and HDBaseT 3.0 compliant
- Support up to 40Gbps FRL and 18Gbps TMDS video bandwidth
- Video resolution is up to 8K@30 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
- Support all industry standard video resolutions including VGA-WUXGA and 480i-8K30
- VRR, FVA, ALLM support
- HDR, HDR10, HDR10+, Dolby Vision and HLG pass-through
- HDMI audio formats: Dolby Atmos, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio
- Signal transmission distance can be extended up to 90m/295ft via a single CAT 6A/7 cable
- Support eARC/ARC from RX to TX sound system
- Advanced EDID management through EDID DIP switch
- With CONFIG DIP switch, allowing the RS-232 serial port to feature different functions
- Support USB2.0 transmission (with speeds up to 350Mbps), Host/Device is configurable
- Bi-directional Ethernet (1Gb), analog audio, IR & RS-232 signal pass-through
- HDMI re-clocking on the HDBaseT™ Receiver to help solve HDMI HDCP, compatibility and handshaking issues
- Bi-directional 24V POC function

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This 8K HDMI & USB over HDBaseT Extender can extend uncompressed HD/UHD video and audio signals, eARC/ARC, RS-232, bi-directional IR, 1GbE Ethernet and USB2.0 signals up to 90m/295ft via a single CAT 6A/7 cable. Video resolution is up to 8K@30 4:4:4 10bit, 4K@120Hz 4:4:4 10bit, 4K60Hz 4:4:4. It supports eARC/ARC from RX's HDMI output pass-through to TX's HDMI input or de-embedding to TX's HDMI output port. Besides, it supports USB 2.0 signal transmission (Host/Device is configurable) and bidirectional POC function. 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 application.

Extender

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SPECIFICATIONS:

Technical

HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	Up to 40Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@30 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
USB Bandwidth	Up to 350Mbps
HDR	HDR, HDR10, HDR10+, Dolby Vision, HL
Color Space	RGB 4:4:4, YCbCr 4:4:4 / 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
Audio Formats	HDMI: PCM2.0, LPCM5.1, LPCM7.1, (32K/44.1K/48K/88.2K/96K/176.4K/192K)(16/20/24); Dolby Digital, Dolby Digital plus, Dolby TrueHD, Dolby Atmos; DTS Surround, 96/24, ES, DTS Express, DTS-HD HRA, DTS HD Master, DTS:X Analog: PCM 2.0 48K
IR Level	5Vp-p/12Vp-p
IR Bandwidth	20K - 60KHz
Transmission Distance	MAX: CAT 6 -- 60m/197ft CAT 6A/7 -- 90m/295ft
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connections

Transmitter

Input	1 x HDMI IN [Type A, 19-pin female]
	1 x AUDIO IN [3.5mm Stereo Mini-jack]
Output	1 x HDMI OUT [Type A, 19-pin female]
	1 x HDBT OUT [RJ45, 8-pin female]
	1 x AUDIO OUT [3.5mm Stereo Mini-jack]
Control	1 x IR IN [3.5mm Stereo Mini-jack]
	1 x IR OUT [3.5mm Stereo Mini-jack]
	1 x RS-232 [3pin-3.81mm Phoenix jack]
	1 x USB HOST [USB Type B]
	3 x USB DEVICE [USB Type A]
	1 x ETHERNET [RJ45]

Receiver

Input	1 x HDMI IN [Type A, 19-pin female]
	1 x HDBT IN [RJ45, 8-pin female]
	1 x AUDIO IN [3.5mm Stereo Mini-jack]
Output	1 x HDMI OUT [Type A, 19-pin female]
	1 x AUDIO OUT [3.5mm Stereo Mini-jack]
Control	1 x IR IN [3.5mm Stereo Mini-jack]
	1 x IR OUT [3.5mm Stereo Mini-jack]
	1 x RS-232 [3pin-3.81mm Phoenix jack]
	1 x USB HOST [USB Type B]
	3 x USB DEVICE [USB Type A]
	1 x ETHERNET [RJ45]

Mechanical

Housing	Front Panel — Aluminium Enclosure; Case — Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 200mm [W] x 100mm [D] x 30mm [H]
Weight	Transmitter: 571g, Receiver: 571g
Power Supply	Input: AC 100 - 240V 50/60Hz
	Output: DC 24V/2.7A (US/EU standard, CE/FCC/UL certified)
Power Consumption	Total power consumption: 20.4W (POC) TX/RX full load: 9.36W/9.84W; TX/RX no-load: 2.46W/3.36W
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

Resolution / Cable Length	8K30 - Feet / Meters	4K60 - Feet / Meters	4K24 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	9.8ft / 3m	16ft / 5m	32ft / 10m	66ft / 20m

The use of "Premium High Speed HDMI" cable is highly recommended.

Extender