

KanexPro HDMI, HDBT Extender/Transmitter with eARC and Audio Embedding and De-embedding Over RJ45 100M

4K HDMI Extender/Transmitter with PoC, ARC, and Ethernet for Seamless AV Distribution

MPN: EXT-HDBT3ARC-TX



Key Benefits of Using an EXT-HDBT3ARC-TX Extender/Transmitter:

- 4K UHD Video Support
- Long-Distance Signal Transmission
- Power over Cable (PoC)
- Ethernet Pass-Through
- Comprehensive Control Options
- Reliable HDBT Technology
- Supports Versatile AV Environments
- Future-Proof Technology

FEATURES

- HDMI 2.0b, HDCP 2.2 and HDBT 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 5e/6 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 USB2.0 transmission, Host/Device is configurable
- Bi-directional 24V POC function

The **KanexPro EXT-HDBT3ARC-TX HDBT 3.0** 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 100m/328ft via a single CAT5e/6 cable. The Transmitter supports audio embedding or 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 application.

Industry Standard HDCP 2.2 & 4K/60

HDCP 2.2 authentication is present always on this matrix ensuring proper handshake of the protected content. It also maintains resolutions up to 4K4096x2160@24, 30, 50 or 60Hz, 3840x2160@24, 25,30, 50 or 60Hz and 2560x1080@60Hz displaying 21:9 aspect ratios. 1920 x 1200 or full HD 1080p/60 is a standard for all our matrix switchers.

Applications:

- Home Theatre Systems
- Corporate Conference Rooms
- Educational Environments (Classrooms & Auditoriums)
- Control Rooms & Broadcast Studios
- Professional AV Installations
- Retail & Commercial Spaces
- Hotel and Hospitality
- Healthcare & Medical Facilities
- Government & Military

SPECIFICATIONS

TECHNICAL	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
HDBT Bandwidth	18Gbps on main and 2Gbps on return link
Video Bandwidth	18Gbps
Video Resolution	Up to 4K@60Hz 4:4:4
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
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	LPCM2.0, AC3 5.1, DTS 5.1
IR Level	12Vp-p
IR Bandwidth	20K - 60KHz
USB Bandwidth	Up to 350Mbps
Ethernet	1000Mbps
RS-232	Up to 921600bps
Transmission Distance	100m (via a single CAT 5e/6/ cable)
ESD Protection	Human body model – ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Video Resolution	4K@60	4K@30	1080P
HDMI Cable Type	HDMI 2.0	HDMI 1.4	HDMI 1.4
HDMI Cable Length (HDMI IN / OUT)	5m/16ft	10m/32ft	15m/49ft
The use of "Premium High-Speed HDMI" cable is highly recommended.			

Mechanical	
Housing	Metal Enclosure
Colour	Black
Dimensions	170mm [W] × 102mm [D] × 22mm [H]
Weight	425 g
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Power Supply	Input: AC100-240V 50/60Hz, Output: DC 24V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption (Max)	15.36W (POC)
Relative Humidity	20-90% RH (Non-condensing)

Connection	
Input	1 × HDMI IN [Type A, 19-pin female] 1 x L/R Input
Output	1 × HDMI OUT [Type A, 19-pin female] 1 x HDBT OUT [RJ45, 8-pin female] 1 x SPDIF OUT [S/PDIF] 1 x L/R OUT [3.5mm Stereo Mini-jack]
Control ports	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 SERVICE [Mini-USB, Update port] 1 x USB HOST [USB Type B] 2 x USB DEVICES [USB Type A] 1 x LAN [RJ45]

APPLICATION DIAGRAM

