

BG-EXH-100C6

**4K 18Gbps HDMI HDBaseT 3.0 Extender with
IR/eARC/ARC/PoC/RS-232/Ethernet/
USB up to 330ft**

The BG-EXH-100C6 is an HDBaseT 3.0 extender that extends uncompressed HD/UHD audio / video, eARC/ARC, RS-232, bi-directional IR, 1GbE Ethernet, and USB 2.0 signals up to a distance of up to 100m/328ft using a single CAT6A/7 cable. Featuring USB 2.0 (host/device configurability), and bi-directional PoC. The transmitter supports audio embedding or de-embedding, while the receiver supports audio de-embedding. The extender supports ARC/ARC from the receiver's HDMI output and passes through to the transmitter's HDMI input, or de-embedding to the transmitter's HDMI audio only and SPDIF output ports.



FEATURES

- Crystal clear images at 4K 60Hz 4:4:4
- Transmit signals up to 328ft (100m)
- HDR, HDR10, HDR10+, Dolby Vision, and HLG supported
- Power over Cable: Power only needs to be supplied to the either transmitter or receiver allowing for easier installation
- Control devices via IR either from the receiver or transmitter
- HDMI loop-out to view content locally at transmitter side
- HDMI 2.0b and HDCP 2.2 supported to ensure content protection
- HDMI ARC from receiver to transmitter
- Utilize two USB 2.0 ports on both transmitter and receiver
- Audio Embedding and de-embedding through S/PDIF optical port and 3.5mm stereo mini on transmitter
- 1Gbps LAN ports on receiver and transmitter to connect extra devices to a network



Specifications

Technical

HDCP 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
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
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 6A/7 cable)
ESD Protection: Human body model — 38kV (Air-gap discharge) & 34kV (Contact discharge)

Connection

Transmitter
Input: 1 x HDMI IN [Type A, 19-pin female]
Output:
1 x 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:
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]

Receiver

Input: 1 x HDBT IN [RJ45, 8-pin female] / 1 x SPDIF IN [S/PDIF]
Output:
1 x HDMI OUT [Type A, 19-pin female]
1 x L/R 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 SERVICE [Mini-USB, Update port]
1 x USB HOST [USB Type B]
2 x USB DEVICES [USB Type A]
1 x LAN [RJ45]

Mechanical

Housing: Metal Enclosure
Color: Black
Dimensions: Transmitter / Receiver: 170mm [W] x 102mm [D] x 22mm [H]
Weight: Transmitter: 425g, Receiver: 437g
Power Supply - Input: AC 100 - 240V 50/60Hz
Output: DC 24V/1A (US/EU standard, CE/FCC/UL certified)
Power 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 / HDMI IN/OUT: 4K60: 16ft / 5m; 4K30: 32ft / 10m; 1080p60: 50ft / 15m

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

Industry-Leading Warranty & Support

BZBGEAR Pro AV products and Cameras come with a three-year warranty. An extended two-year warranty is available for our Cameras upon registration for a total of five years. We pride ourselves in our Customer Service and seven-days-a-week Tech Support.

