



BG-IPGEAR-XTREME-PRO

8K UHD AV OVER IP MULTICAST TRANSCIVER
WITH SEAMLESS MATRIX SWITCHING/VIDEO WALL/
MULTIVIEW/KVM/USB 3.0/POE SUPPORT

The BG-IPGEAR-XTREME-PRO is a high-performance HDMI 2.1 over IP multicast transceiver system designed for seamless AV transmission over 1GbE networks. This system supports 8K@60Hz 4:2:2 DSC and 4K@144Hz 4:4:4, providing crystal-clear video and ultra-low latency, making it ideal for applications in gaming, broadcasting, healthcare, digital signage, and professional AV environments. With HDMI 2.1, USB-C (Alt Mode DP 1.4), and eARC/ARC compatibility, the BG-IPGEAR-XTREME-PRO ensures broad device support and superior compatibility.

When it comes to audio, the BG-IPGEAR-XTREME-PRO offers comprehensive support, including eARC/ARC for high-quality audio pass-through, making it compatible with modern sound systems. It supports DTS-HD Master Audio, Dolby TrueHD, and 7.1-channel digital surround sound, ensuring premium audio output for both home and professional audio setups.



FEATURES



ULTRA-HD RESOLUTION

Up to 8K@60Hz (4:2:2 DSC) & 4K@144Hz (4:4:4)



VIDEO WALL SUPPORT

Advanced functionality with image rotation & flipping



MULTI-VIEW MODES

PiP, PbP, & PoP (Chroma Key) for enhanced display options



AUDIO FORMAT SUPPORT

DTS-HD Master Audio & Dolby TrueHD high bit-rate audio



MULTI-INPUT SUPPORT

USB-C (Alt Mode DP 1.4) with simultaneous HDMI & DisplayPort input



SOFTWARE MANAGEMENT

Supports configuration, firmware updates, and signal management



TECH SPECIFICATIONS

Technical

Role of Usage	Transceiver
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	up to FRL 6 (48G)
Video Support	up to 4K@144 4:4:4/ 8K@60 4:2:2 DSC
HDMI over UTP	4K@144 4:4:4/ 8K@60 4:2:2 DSC 100m (330ft) [CAT.6A]
Audio Support	Surround sound (up to 7.1ch) or stereo digital audio
Equalization	Auto
Input TMDS Signal	1.2 Volts [peak-to-peak]
Input DDC Signal	5 Volts [peak-to-peak, TTL]
ESD Protection	Human body model — $\pm 15\text{kV}$ [air-gap discharge] & $\pm 8\text{kV}$ [contact discharge]
PCB Stack-up	4-layer board [impedance control — differential 100 Ω ; single 50 Ω]
IR Pass-thru	Bi-directional
RS-232 Support	Yes
I/O Connector	2x HDMI + 4x 3.5mm + 4x USB + 2x USB-C + 2x TOSLINK + 1x RJ-45 + 1x RS-232
HDMI Source Control	Controllable via IR pass-through from RX to TX or TX to RX with IR extenders
HDMI Connector	Type A [19-pin female]
RJ-45 Connector	WE/SS 8P8C
USB Connector	Type A/ Type B/ USB-C
3.5mm Connector	IR receiver / IR blaster / Stereo

Mechanical

Housing	Metal enclosure
Fixedness	Wall-mounting case with screws
Dimensions (LxWxH)	8.5 x 4.1 x 1.7in [215 x 104 x 44mm]
Weight	1.3 lbs [0.6kg]
Power Supply	12V DC, 1A
Power Consumption	12 Watt [max]
Operation Temperature	32~104°F / 0~40°C
Storage Temperature	-4~140°F / -20~60°C
Relative Humidity	20~90% RH [no condensation]

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit bzbgear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Pro Line Products
5-YEAR WARRANTY
Essential Line Products
3-YEAR WARRANTY
Cables Products
LIFETIME WARRANTY

