



BG-EXH-4KFH

4K 18GBPS HDMI 2.0 FIBER EXTENDER KIT UP TO 10 KM WITH INCLUDED SFP+ MODULES

The BG-EXH-4KFH is a professional HDMI 2.0b over fiber extender designed to transmit uncompressed 4K@60Hz 4:4:4 video over distances of up to 10km (6.2 miles) using single-mode fiber. Supporting the full 18Gbps HDMI bandwidth, HDCP 2.2 compliance, and HDR pass-through, it delivers exceptional image quality and reliable long-distance signal transmission for broadcast, digital signage, enterprise, and mission-critical AV installations.

Built around high-performance 10G SFP+ fiber technology, the BG-EXH-4KFH offers immunity to electromagnetic interference while maintaining pristine video and audio quality across extended distances. Its compact metal enclosure, low-power design, and wide compatibility with professional AV equipment make it an ideal solution for applications where long-distance HDMI transmission is required.



FEATURES



ULTRA-LONG DISTANCE EXTENSION

Transmits HDMI signals up to 10km (6.2 miles) over single-mode fiber or 300m (984ft) over OM4 multi-mode fiber with compatible SFP+ modules



18GBPS PERFORMANCE

Supports HDMI 2.0b, HDCP 2.2, and resolutions up to 4K@60Hz 4:4:4 for uncompromised Ultra HD video quality



HDR & PREMIUM AUDIO SUPPORT

Passes HDR10, HDR10+, Dolby Vision, HLG, Dolby Atmos, Dolby TrueHD, DTS-HD Master Audio, DTS:X, and other advanced audio formats



PROFESSIONAL 10G SFP+

Uses an LC SFP+ connection for stable, high-bandwidth, long-distance signal transmission



WIDE RESOLUTION COMPATIBILITY

Supports common HDTV and VESA resolutions for seamless interoperability with a broad range of source and display devices



RELIABLE PERFORMANCE

Immune to EMI/RFI interference with a durable metal enclosure designed for continuous professional operation



TECH SPECIFICATIONS

Technical

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Supported Resolutions	Up to 4096x2160p60, 3840x2160p60, 3840x2160p50, 3840x2160p30, 1920x1080p60, and other VESA resolutions
Color Space	RGB, YCbCr 4:4:4 / 4:2:2, YUV 4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDR Support	HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-HD Master Audio, DTS:X
Fiber Interface	10G SFP+ module (LC connector)
Transmission Distance	Up to 10km (single-mode fiber), up to 300m (OM4 multi-mode fiber)
ESD Protection	

Connection

Transmitter Input	1x HDMI Type A (19-pin female)
Transmitter Output	1x SFP+ OUT (LC fiber)
Transmitter Service	1x USB-C (firmware update port)
Receiver Input	1x SFP+ IN (LC fiber)
Receiver Output	1x HDMI Type A (19-pin female)
Receiver Service	1x USB-C (firmware update port)

Mechanical

Housing	Metal enclosure
Color	Black
Dimensions (W x D x H)	3.2in x 1.9in x 0.98in [81mm x 49mm x 25mm]
Housing	Metal enclosure
Weight	Transmitter: 0.30 lb [138g] / Receiver: 0.30 lb [138g]
Power Supply	DC 5V/1A (AC 100–240V, 50/60Hz)
Power Consumption	TX: 3.05W (Max) / RX: 2.25W (Max)
Operating Temperature	32°F to 104°F / 0°C to 40°C
Storage Temperature	-4°F to 140°F / -20°C to 60°C
Operating Humidity	20%–80% RH (non-condensing)
Storage Humidity	10%–90% RH (non-condensing)

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