

This product requires a 5V USB port or USB wall charger (sold separately) to power the device. The USB wall charger must be certified for safety and suitable for the region in which the device is used.

## 8K HDMI Signal Booster/Extender (F/F) - 8K 60 Hz, 4K 120 Hz, 4:4:4, HDR10+, Up to 10 m (32.8 ft.)

MODEL NUMBER: **B122-000-8K6**



Extends ultra-high-resolution HDMI signals up to 8K/60 Hz over longer distances without signal loss using standard HDMI 2.1 cables.

### Features

#### Extend 8K HDMI Signals Up to 10 Meters with Zero Loss

The B122-000-8K6 boosts HDMI 2.1 signals, including 8K/60 Hz, 4K/120 Hz and 1080p/240 Hz, over long distances using standard HDMI cables. The booster preserves signal integrity by maintaining full resolution, HDR and surround sound with no dropouts or degradation. It is recommended for digital signage or video presentations in schools, conference rooms, retail displays, trade show booths and anywhere else you need to display 8K video. It has been verified to work with major 8K/4K televisions and displays from Samsung, LG, TCL, Hisense and Sony. It also supports advanced formats such as VRR, ALLM and QFT.

#### Transmits 8K Video with HDR and 4:4:4 Color

The B122-000-8K6 supports Ultra HD 8K resolutions up to 7680 x 4320 at 60 Hz, along with 36-bit Deep Color (12 bits per channel) and DTS-HD Master Audio, Dolby TrueHD and 7.1-channel surround sound. It supports Dynamic HDR, including HDR10, HDR10+ and Dolby Vision, providing a wide range of vibrant colors with richer contrast, brighter whites and deeper blacks that pop on your 4K display. HDCP 2.3 encryption allows you to stream protected 8K content with no loss in resolution. This HDMI signal booster also supports uncompressed 4:4:4 chroma subsampling for top-level PC gaming or using your HDTV as a PC monitor. **Note:** The B122-000-8K6 supports key HDMI 2.1 features including 8K/60 Hz, 4K/120 Hz, HDR formats and VRR. Not all HDMI 2.1 features are supported.

#### Ready to Use Right from the Package, So You Can Plug and Play Immediately

The plug-and-play unit requires no software to install. HDMI 2.1 cables capable of 8K (sold separately) for connecting the in-line signal booster between the source and display must be no longer than five meters (16.4 feet). The included USB-A to USB-C cable is required for powering the booster from a 5V USB source such as a USB port or power adapter (USB wall charger sold separately). The low-profile design allows the unit to fit comfortably inside a laptop bag for video presentations in large conference rooms, convention floors and lecture halls.

## Specifications

### Highlights

- Plug-and-play solution extends UHD HDMI video beyond standard cable limits
- Supports UHD resolutions up to 8K @ 60 Hz or 4K @ 120 Hz 10 meters from the source
- Supports advanced video formats including HDR10+, Dolby Vision, VRR, ALLM and QFT
- Verified with major 8K/4K TVs and displays from Samsung, LG, TCL, Hisense and Sony
- Compact unit fits easily into briefcase or laptop bag for instant use anywhere

### System Requirements

- Source device (laptop, Blu-ray player, cable/satellite box, media server) with HDMI output
- Display device (laptop, television, monitor, projector) with HDMI input
- All connected devices and cabling must support 8K resolutions to transmit 8K video
- Requires HDMI 2.1 cables no more than 5 meters each from source and display for 8K resolution
- Requires HDMI 2.0 cables no more than 8 meters from source and 5 meters from display for 4K resolution

### Package Includes

- B122-000-8K6 HDMI Signal Booster/Extender
- USB-A to USB-C power cable
- Installation instructions



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OVERVIEW	
UPC Code	037332293640
Product Type	Signal Booster
Technology	HDMI; Stereo Audio
VIDEO	
Video Input	HDMI (FEMALE)
Video Output	HDMI (FEMALE)
Number of Monitors Supported	1
Video Ports	HDMI (FEMALE)
Video Ports Details	HDMI 2.1; HDCP 1.4; HDCP 2.2; HDCP 2.3
Resolutions Supported	Video extension is supported at the following resolutions and distances:8K @ 60 Hz and 4K @ 120 Hz, up to 10 meters (32 ft)4K @ 60 Hz, up to 13 meters (42 feet)1080p/720p, up to 20 meters (65 feet)For optimal resolution support, the following cable lengths and specifications are recommended:8K @ 60 Hz and 4K @ 120 Hz, HDMI 2.1 cable (Cable length no more than 5 meters from source to booster and booster to display)4K @ 60 Hz, HDMI 2.0 cable (cable length no more than 8 meters from source to booster and 5 meters from booster to display)
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K); 7680x4320 (8K)
Max Supported Video Resolution	7680 x 4320 (8K) 60 Hz
Max 1280 x 720 (720p) Range (ft)	65
Max 1920 x 1080 (1080p) Range (ft)	65
Max 3840 x 2160 (4K) Range (ft)	42
Max 3840 x 2160 (4K@60Hz) Range (ft)	42
Max 7680 x 4320 (8K@60Hz) Range (ft)	32
Signal Range (ft)	32
Signal Range (m)	10
Recommended Cabling	24 AWG
Max Supported Color Depth	36-bit Deep Color
HDR Support	Yes
3D Video Supported	Yes
Chroma Sub Sampling	4:4:4
Maximum Signal Range (ft)	42
Maximum Signal Range (m)	13
Maximum Signal Range Details	Extends a 8K @ 60 Hz HDMI signal up to 32 feet from the source
EDID Support	Yes
Signal Transmission	Unidirectional
Bandwidth	48 Gbps
DisplayPort Alt Mode	No



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DSC Support	Yes
<b>AUDIO</b>	
Audio Ports	HDMI (FEMALE)
Audio Ports Details	Support compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio™ and Dolby True-HD)Audio compatibility includes Linear PCM 2ch 44.1kHz 2ch 96kHz, Linear PCM 2ch 192kHz, Linear PCM 5.1ch 44.1kHz, Linear PCM 5.1ch 48kHz, Linear PCM 5.1ch 192kHz, Linear PCM 7.1ch 44.1kHz, Linear PCM 7.1ch 96kHz 5.1 Audio (DTS, Dobyly Digital)/7.1 Audio (DTS HD Master Audio™, Dolby TrueHD)
Audio Input	HDMI
Audio Output	HDMI
Audio Specification	DTS, DOLBY DIGITAL (DTS-HD MASTER AUDIO, DOLBY TRUE-HD)
<b>INPUT</b>	
Bus Powered	No
Power Source	USB
<b>POWER</b>	
Power Source Type	USB
Power Source	Unit (Included)
Power Over Cable (PoC) Support	No
<b>CONNECTIONS</b>	
Number of Ports	2
Side A - Connector 1	HDMI (FEMALE)
Side B - Connector 1	HDMI (FEMALE)
<b>PHYSICAL</b>	
Color	Black
Material of Construction	Metal
Housing Color	Black
Total Number of Ports	2
Form Factor/Mounting Options	Box
Rackmountable	No
Shipping Dimensions (hwd / in.)	0.83 x 5.32 x 4.65
Shipping Dimensions (hwd / cm)	2.11 x 13.51 x 11.81
Shipping Weight (lbs.)	0.23
Shipping Weight (kg)	0.10
Unit Dimensions (hwd / in.)	0.600 x 1.200 x 1.900
Unit Dimensions (hwd / cm)	0.62 x 1.98 x 1.24



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Unit Packaging Type	Box
Unit Weight (lbs.)	0.09
Unit Weight (kg)	0.04
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	32° to 158°F (0° to 70°C)
Storage Temperature Range	14° to 176°F (-10° to 80°C)
Relative Humidity	0-85% non-condensing
Operating Humidity Range	10% TO 85% RH, NON-CONDENSING
Storage Humidity Range	5% TO 90% RH, NON-CONDENSING
Power Provided to Connected Device(s)	USB-C PORT: 5V 1A
<b>COMMUNICATIONS</b>	
Signal Range (ft.)	32
Signal Range (m)	10
Transmission Distance	8K/60 Hz, 4K/120 Hz: 10 meters (32 ft); 4K/60 Hz, 4K/30 Hz: 13 meters (42 ft); 1080p/720p: 20 meters (65 ft)
EDID Compatible	Yes
IR Remote Extension Support	No
RS-232 Serial Extension Support	No
Consumer Electronics Control (CEC) Supported	Yes
Latency	Zero
USB Extension Support	No
<b>FEATURES &amp; SPECIFICATIONS</b>	
10/100 Ethernet Extension Support	No
Integrated/Removable Cable	No
MST Support	No
Mounting Accessory Included	No
Multi-Resolution Support	No
Built-In Equalizer	Yes
HDCP Specification	1.4; 2.2; 2.3
Driver Required	No
DIN Mountable	No
<b>STANDARDS &amp; COMPLIANCE</b>	
Product Compliance	CE (Europe); FCC (USA); REACH; RoHS



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WARRANTY & SUPPORT

Product Warranty Period (Worldwide)	3-year limited warranty
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