

HDMI over IP Encoder/Decoder Kit with KVM - 4K, TCP/IP, Up to 393 ft. (120 m)

MODEL NUMBER: B161-101



Converts HDMI audio/video to an IP-based signal that is transmitted to receivers or an Ethernet network switch 393 ft. away via Cat6 cable.

Features

An Effective Digital Signage Solution Designed for Easy Setup and Operation

This HDMI over IP encoder and decoder kit supports visually lossless 4K signals with low latency up to 393 feet (120 meters) point to point or via a standard Gigabit Ethernet switch. Engineered to meet today's demands of large-scale, multi-display 4K signal transmission, the B161-101 is ideal for a wide range of indoor environments, such as trade shows, airports, university campuses, conference centers and shopping centers. The kit follows TCP/IP standards for reliable AV over IP installations.

Lightweight Compression with Ultra-Low Latency

The kit uses advanced video lossless compression technology to extend 4K video at 30 Hz with 3.4 Gbps/340 mHz per channel (10.2 Gbps all channels), 3D video support and 12-bit per channel color depth.

Limitless Scalability and Flexibility

Mix and match the latest 4K displays in simple point-to-point setups or more elaborate point-to-multipoint setups via LAN (local area network) without distance limitations. In conjunction with multiple B161-001 extender receivers (sold separately), this kit offers multi-functionality in video wall and daisy-chain applications.

Configure Video Installations with a Keyboard and Mouse

Connect the transmitter's USB-A port to a computer and connect a keyboard and mouse to the KVM ports on the receiver to control the video installation from the display side.

Extend Multiple B161-Series Decoders

Connect multiple B161-001 decoder units (sold separately) through a dedicated Ethernet network switch. Cabling and system deployment is easy with fewer cables needed. The daisy-chain function is especially ideal for large-scale deployment covering a wide area, such as hotels, airports, shopping malls and expo centers.

Specifications

Highlights

- Complete 4K HDMI over IP kit includes both an encoder and a decoder
- Supports 1-to-1 or 1-to-many AV installations with additional B161-001 receivers
- Supports 4K @ 30 Hz video resolutions with 3D and 12 bits per channel
- Supports remote USB mouse/keyboard connections for KVM functionality
- Plug-and-play operation with no software required for easy, immediate installation

System Requirements

- Source device with HDMI output (Blu-ray player, media server, satellite/cable box, laptop)
- Display device(s) with HDMI input (HDTV, projector, monitor)
- Google Chrome, Mozilla Firefox or Opera web browser
- Additional B161-001 receivers for one-to-many installations

Package Includes

- Encoder (Transmitter)
- Decoder (Receiver)
- (2) External power supplies (Input: 100–240V, 50/60 Hz, 0.2A; Output: 5V 1A)
- (4) International plug adapters: NEMA 1-15P (North America), CEE 7/16 Schuko (Europe), BS 1363 (UK) and AS/NZS 3112 (Australia)
- USB-A cable
- Installation instructions



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TRIPP LITE
SERIES

OVERVIEW	
UPC Code	037332297051
Product Type	Transmitter
Technology	Cat5/5e; Cat6; HDMI; USB 2.0 (High Speed)
Country/Region	Global
VIDEO	
Video Input	HDMI (FEMALE)
Video Output	HDMI (FEMALE)
Video Ports	HDMI (FEMALE)
Video Ports Details	HDMI 1.4
Resolutions Supported	Supported video resolutions include: 480p / 720p / 1080i / 1080p / 4K @ 30 Hz
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K)
Max Supported Video Resolution	4K @ 30Hz
Max. Distance (Between any 2 Units)	393 ft (120 meters)
Transmitter Video Input	HDMI
Transmitter - Number of Video Outputs	1
Receiver/Transceiver Video Output	HDMI
Receiver - Number of Video Outputs	1
Signal Range (ft)	393
Signal Range (m)	120
Max Supported Color Depth	12-bit; 36-bit True Color
HDR Support	No
3D Video Supported	Yes
Bandwidth	10.2 Gbps
INPUT	
AC Power Adapter Plug(s)	AS/NZS 3112 Australia; BS 1363 UK; CEE 7/16 Schuko; NEMA 1-15P North America
AC Power Adapter Input Specs (V / Hz / A)	100-240V / 50/60Hz / 0.2A
AC Power Adapter Output Specs (V / A)	5V / 1A
AC Power Adapter Cord Length (ft.)	4
AC Power Adapter Cord Length (m)	1.2
Voltage Compatibility (VAC)	100; 110; 120; 125; 127; 200; 208; 220; 230; 240
POWER	

Power Source Type	AC Adapter
AC Plug Type	AS/NZS 3112; BS1363; CEE 7/16 Schuko; NEMA 1-15P
Power Over Cable (PoC) Support	No
DC Barrel Plug	OD: 5.5 x 2.1 x 10mm, Positive Pin, Negative Sleeve
Power Consumption (Watts)	5.00
Output Volt/Amp (from external power supply)	5.0V/1.0A
Power Consumption Detail	TX: 2W, RX: 2W
CONNECTIONS	
Number of Ports	3
Side A - Connector 1	(1) RJ45 (FEMALE)
Side A - Connector 2	(2) HDMI (MALE)
Side A - Connector 3	(1) USB A (FEMALE)
Side B - Connector 1	(1) RJ45 (FEMALE)
Side B - Connector 2	(1) HDMI (MALE)
Side B - Connector 3	(2) USB A (FEMALE)
Connector Plating	Nickel
Daisy-chainable / Cascadable	Yes
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	5
LED Indicators	Encoder/TX: (1) Power LED Indicator- LED will illuminate when AC power is detected; (1) USB LED Indicator- LED will illuminate when USB Signal is detected. When no USB Signal is detected, the LED indicator will be OFF. Decoder/RX: (1) Power LED Indicator- LED will illuminate when AC power is detected; (1) Mouse- LED will illuminate when a mouse is connected. When no mouse is detected, the LED indicator will be OFF. (1) Keyboard- LED will illuminate when a keyboard is connected. When no keyboard is detected, the LED indicator will be OFF.
PHYSICAL	
Color	Black
Material of Construction	Metal
Included Mounting Accessories	No
Rackmountable	No
Shipping Dimensions (hwd / in.)	2.16 x 11.49 x 9.37
Shipping Dimensions (hwd / cm)	5.50 x 29.20 x 23.80
Shipping Weight (lbs.)	2.12
Shipping Weight (kg)	0.96
Unit Dimensions (hwd / in.)	6.700 x 5.010 x 1.140
Unit Dimensions (hwd / cm)	17.02 x 12.72 x 2.9



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Unit Packaging Type	Box
Unit Weight (lbs.)	1.48
Unit Weight (kg)	0.67
ENVIRONMENTAL	
Operating Temperature Range	32° to 158°F (0° to 70°C)
Storage Temperature Range	14° to 176°F (-10° to 80°C)
Relative Humidity	5 to 90% RH, Non-Condensing
BTUs	DC: 16BTU; POE: 20BTU
COMMUNICATIONS	
Signal Range (ft.)	393
Signal Range (m)	120
Network Compatibility	10 Mbps; 100 Mbps (Fast Ethernet)
Transmission Distance	393 ft (120m)
EDID Compatible	Yes
IR Remote Extension Support	No
RS-232 Serial Extension Support	No
USB Extension Support	Yes
FEATURES & SPECIFICATIONS	
10/100 Ethernet Extension Support	Yes
Integrated/Removable Cable	No
MST Support	No
Mounting Accessory Included	No
Multi-Resolution Support	No
HDCP Specification	1.4
Driver Required	No
Recommended Category Cable	Cat5e / Cat6
DIN Mountable	No
STANDARDS & COMPLIANCE	
External Power Supply Certifications	C-Tick; CE; FCC; PSE; RoHS; TUV; UL; WEEE; cUL
Product Certifications	NOM (Mexico)
Product Compliance	CE (Europe); REACH; RoHS; UKCA; WEEE
WARRANTY & SUPPORT	



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Product Warranty Period (Worldwide)	1-year limited warranty
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