

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

MODEL NUMBER: **B161-001**



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 decoder delivers 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 B161-001 is ideal for a wide range of indoor environments, such as trade shows, airports, university campuses, conference centers and shopping centers. The decoder follows TCP/IP standards for reliable AV over IP installations.

Lightweight Compression with Ultra-Low Latency

The decoder 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. Simply connect a B161-101 encoder/decoder kit (sold separately) to a standard network switch and additional B161-001 decoder units to the ports on the switch using Cat6 cabling. This product offers multi-functionality in video wall and daisy-chain applications.

Configure Video Installations with a Keyboard and Mouse

Connect the USB-A port on the encoder unit of a B161-101 kit (sold separately) to a computer and connect a keyboard and mouse to the KVM ports on the B161-101 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

- Requires connection to B161-001 receiver for completing a 1-to-1 installation
- Supports 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
- B161-101 encoder/decoder kit

Package Includes

- Decoder (Receiver)
- External power supply (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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OVERVIEW	
UPC Code	037332297129
Product Type	Decoder
Technology	Cat5/5e; Cat6; HDMI; USB
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 30 Hz
Max. Distance (Between any 2 Units)	393 ft (120 meters)
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



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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	4
Side A - Connector 1	(1) RJ45 (FEMALE)
Side B - Connector 1	(1) HDMI (FEMALE)
Side B - Connector 2	(2) USB A (FEMALE)
Connector Plating	Nickel
Daisy-chainable / Cascadable	Yes
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	3
LED Indicators	(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.)	9.56 x 7.71 x 2.36
Shipping Dimensions (hwd / cm)	24.30 x 19.60 x 6.00
Shipping Weight (lbs.)	0.97
Shipping Weight (kg)	0.44
Unit Dimensions (hwd / in.)	6.700 x 5.010 x 1.140
Unit Dimensions (hwd / cm)	17.02 x 12.72 x 2.9
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)



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Relative Humidity	5 to 90% RH, Non-Condensing
BTUs	DC: 16BTU; POE: 20BTU
COMMUNICATIONS	
Signal Range (ft.)	9.8
Signal Range (m)	3
Network Compatibility	10 Mbps; 100 Mbps (Fast Ethernet)
Transmission Distance	393 ft (120m)
EDID Compatible	No
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	
Product Warranty Period (Worldwide)	1-year limited warranty

1000 Eaton Boulevard
Cleveland, OH 44122
United States
<https://tripplite.eaton.com>

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