HDMI over IP Encoder - 4K, 4:4:4, PoE, 328 ft. (100 m), TAA

MODEL NUMBER: **B162-001-POE**

Converts HDMI audio/video to an IP-based signal that is transmitted to a receiver 328 ft. away via Cat6 cable or a dedicated Ethernet network switch.

Features

An Effective Digital Signage Solution Designed for Easy Setup and Operation
This HDMI over IP extender transmitter delivers visually lossless 4K signals with low latency up to 328 feet (100 meters) via a standard Gigabit Ethernet switch. Engineered to meet today's demands of large-scale, multi-display 4K signal transmission, the B162-001-POE is ideal for a wide range of indoor environments, such as trade shows, airports, university campuses, conference centers and shopping centers.

Lightweight Compression with Ultra-Low Latency
This transmitter uses advanced video lossless compression technology to extend true 4K video at 60 Hz or true 4K video at 30 Hz with 4:4:4 chroma subsampling. Choose from three different levels of video compression rate to match your application, including Smooth, Balance and High Quality. LEDs indicate connection and power status.

Supports Power over Ethernet to Save You Money and Give You More Installation Choices
When installed in combination with a PoE Ethernet switch in a multipoint-to-multipoint setup, this PoE extender transmitter can be powered through a shielded Cat6 cable, though an external power supply is included. Power over Ethernet gives you the flexibility to install the transmitter in an area away from AC outlets, such as ceilings or high up on a wall or shelf. ***Note**: When power is available from both the Cat6 cable and the power supply, the power supply will receive priority.*

Limitless Scalability and Flexibility
Mix and match the latest 4K displays in simple point-to-point setups or more elaborate multipoint-to-multipoint setups via LAN (local area network) without distance limitations. In conjunction with B162-100-POE extender receivers, this transmitter offers multi-functionality in video wall and daisy-chain applications.

Collaboration with Control System
You can manage and configure the extender via CLI telnet, TCP or RS-232 commands from a connected computer. Just one click via touch panel or keypad is needed to operate a display, source and related equipment.

Spontaneous Scheduling Management
A user-friendly scheduling management function lets you pre-plan the display schedule, manage events in the calendar and set events to one-minute intervals. You can integrate all B162-Series devices in the

Highlights

- Requires connection to B162-100-POE or other compatible receiver
- Supports 4K @ 30 Hz video resolutions (4:4:4) as specified in HDMI 2.0
- PoE feature gives you the flexibility to install the unit away from AC outlets
- Extends multipoint-to-multipoint setup via LAN with no distance limitation
- Web GUI-based management needs no software or additional server computers

Applications

- Extend video signals from one room to another using Cat6 cable, which can pass through conduit to meet building codes
- Create multipoint-to-multipoint setups via LAN without distance limitations
- Gain flexibility in where the units are placed, with the freedom to move and relocate one away from an AC outlet
- Improve the line of sight for digital signage in a hotel, trade show, airport, university campus, conference center or shopping center

System Requirements

- Source device with HDMI output (Blu-ray player, cable box, laptop)
- Display device(s) with HDMI input (HDTV, projector, monitor)
- B162-100-POE extender receiver
- Google Chrome, Mozilla Firefox or Opera web browser

Package Includes

- HDMI over IP Extender Transmitter
- RS-232 terminal block
- External power supply with NEMA 1-15P plug (Input: 100-240V, 50/60 Hz, 0.5A; Output: 5V 3A)
- (4) Foot pads
- Mounting brackets

application to arrange the profile by grouping individual receivers or video walls. Multiple profiles may be arranged to play in any order over a selected period.

No Complicated IP Setup
Switch effortlessly among input source devices via buttons on the top panel. No extensive IT experience is required to operate.

Web GUI-Based Management
Use a web browser or IP address to link directly to the transmitter's built-in utility program, the DVOE Manager. It lets you configure transmitter settings, monitor statuses and create display templates.

Daisy-Chain Up to 30 Units
Connect multiple B162-100-POE receivers (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. ***Note****: Only the first level supports PoE. All B162-Series units connected on the second level and above need an external power supply.*

Create a Video Wall
The B162-001-POE supports an 8 x 8 video wall (64 displays) in either horizontal or vertical orientation. This is done by utilizing a B162-100-POE decoder for each display. Switching layout profiles, previewing the wall and dragging-and-dropping input sources is accomplished through the GUI.

Embedded Audio Support
A separate audio signal may be embedded into the HDMI stream.

Multiple Control Channels
Manage control methods via Ethernet or the top-panel buttons. A USB 2.0 port allows connection to the source device. A bi-directional IR channel allows IR transmission one way at a time. A bi-directional RS-232 serial port connects a computer for serial control. ***Note****: In order to save bandwidth and optimize video performance, the USB, IR and RS-232 ports are disabled by default. Access the DVOE Manager to enable them.*

- Quick Start Guide

Specifications

OVERVIEW	
UPC Code	037332263810
Product Type	Transmitter
Technology	Cat5/5e; Cat6; HDMI
VIDEO	
Max Supported Video Resolution	3840 x 2160 (4K) @ 30Hz
Max. Distance (Between any 2 Units)	100m
Transmitter Video Input	HDMI
Transmitter - Number of Video Outputs	1
Transmitter - Local Display Output	HDMI
Signal Range (ft)	3
Signal Range (m)	0.91

Max Supported Color Depth	36-bit Deep Color
HDR Support	Yes
INPUT	
AC Power Adapter Plug(s)	NEMA 1-15P North America
AC Power Adapter Input Specs (V / Hz / A)	100-240V / 50/60Hz / 0.5A
AC Power Adapter Output Specs (V / A)	5V / 3A
AC Power Adapter Cord Length (ft.)	4.9
AC Power Adapter Cord Length (m)	1.5
Voltage Compatibility (VAC)	100; 110; 120; 125; 127; 200; 208; 220; 230; 240
POWER	
Power Source Type	AC Adapter
Power Over Cable (PoC) Support	Yes
DC Barrel Plug	OD: 5.5 x 2.1 x 7.5mm, Positive Pin, Negative Sleeve
Power Consumption (Watts)	4.36
Power Consumption Detail	DC: 3.49W; POE: 4.36W
CONNECTIONS	
Number of Ports	3
Side A - Connector 1	HDMI (FEMALE)
Side A - Connector 2	USB B (FEMALE)
Side A - Connector 3	(2) 3.5MM (FEMALE)
Side B - Connector 1	RJ45 (FEMALE)
Connector Plating	Nickel
Daisy-chainable / Cascadable	Yes
Daisy-chainable / Cascadable Details	Up to 30 Units
USER INTERFACE, ALERTS & CONTROLS	
LED Indicators	Green (Power); Orange (Connection)
PHYSICAL	
Color	Black
Material of Construction	Metal
Rackmountable	Yes
Shipping Dimensions (hwd / in.)	2.44 x 11.14 x 6.81
Shipping Dimensions (hwd / cm)	6.20 x 28.30 x 17.30

Shipping Weight (lbs.)	2.13
Shipping Weight (kg)	0.97
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 104°F (0° to 40°C)
Storage Temperature Range	-4° to 140°F (-20° to 60°C)
Relative Humidity	0 to 80% 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)
EDID Compatible	Yes
IR Remote Extension Support	Yes
RS-232 Serial Extension Support	Yes
USB Extension Support	Yes
FEATURES & SPECIFICATIONS	
Integrated/Removable Cable	No
MST Support	No
Mounting Accessory Included	No
Multi-Resolution Support	No
Port Selection	Pushbutton
HDCP Specification	1.4
Driver Required	No
Recommended Category Cable	Cat5e / Cat6
DIN Mountable	No
STANDARDS & COMPLIANCE	
External Power Supply Certifications	CE; FCC; PSE; RoHS; UL; WEEE
Product Certifications	NOM (Mexico)

Product Compliance	RoHS; CE (Europe); REACH; WEEE; Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty

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