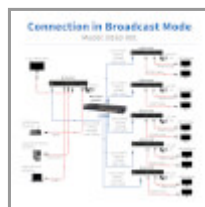


4K Universal AV over IP Encoder (Transmitter) - 4K 60 Hz, HDR10 with HDMI, DisplayPort and USB-C Inputs, TAA

MODEL NUMBER: B163-001



Transmits 4K audio/video to a compatible decoder (receiver) over Cat5e/6 cabling up to 100 meters.

Features

Transmits Scalable 4K @ 60 Hz Audio/Video for Pro AV and IT Applications

This IP encoder/transmitter switches smoothly between 4K HDMI, DisplayPort and USB-C input signals and transmits them to one or multiple compatible decoders (sold separately) placed up to 328 feet (100 meters) away using Cat5e/6 cabling. You can effortlessly switch back and forth between inputs using push buttons on the encoder or the included IR remote. This enables everything from simple point-to-point extension across a classroom or multi-display distribution for lecture halls, boardrooms, medical facilities, retail settings and other mixed source environments.

Regulate Your AV over IP Installs with HDMI, DisplayPort and USB-C Support

You can create a universal AVoIP solution by converting a local AV source into a TCP/IP stream for transport over standard Cat5e/6 cabling to B163-100 decoders or through an IGMP-capable managed switch. The B163-001 stands out by supporting HDMI, DisplayPort and USB-C inputs, allowing integrators and IT teams to standardize one AV-over-IP platform for a variety of different sources. Laptops, media players, workstations and collaboration devices can all be connected without adapters or separate encoders.

Visually Lossless Compression and Ultra-Low Latency

Designed for demanding 4K environments, the B163-Series supports visually lossless compression (x18–x20), approximately 800 Mbps video bitrate and 2 ms latency at 2160p, preserving image fidelity for detailed content, fast motion and interactive use cases. Supported HDMI 2.1 features include HDR10 and Dolby Vision, HDCP 2.3, 12-bit color, RGB/4:4:4/4:4:2 chroma and 3D video, with backward compatibility for HDCP 2.2/1.4 display chains. A local HDMI port lets you monitor content at the encoder location without splitting the signal externally, which is ideal for rack rooms, control rooms or troubleshooting during setup.

Unicast or Multicast Flexibility

Pair the B163-001 encoder to a single B163-100 decoder in unicast (1-to-1) mode using channel selection and SET handshake. Alternatively, stream content from one B163-001 encoder to multiple B163-100 decoders across a managed network in broadcast/multicast (1-to-many over a managed network switch) for campus-wide distribution. **Note:** B163-100 decoders are sold separately. Enable IGMP snooping/querier to prevent multicast flooding.

Integrated Control Extension

Highlights

- Works with one or more B163-100 decoders (sold separately) to transmit 4K signals
- Switch HDMI, DisplayPort and USB-C inputs using push buttons or included IR remote
- Supports HDMI 2.1 features, including HDR10/Dolby Vision, HDCP 2.3 and RGB/4:4:4
- Plug-and-play operation with no software required for easy, immediate installation
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

System Requirements

- Source device with HDMI, DisplayPort or USB-C video output
- One or more B163-100 AV over IP decoders (sold separately)
- Cat5e/6 cabling (24 AWG solid-wire recommended for best results)
- IGMP-capable managed Gigabit Ethernet switch for multi-decoder deployments
- Local HDMI display and HDMI cabling for source-side monitoring (optional)
- AC power: 100–240V input/24V 1A output (included PSU)

Package Includes

- 4K AV over IP Encoder (Transmitter)
- IR remote control
- IR-IN cable
- IR-OUT cable
- RS-232 Phoenix connector
- External power supply (Input: 100–240V, 50/60 Hz, 0.6A Max; Output: 24V 1A) with mini-DIN connector, 5 ft. (1.5 m)
- (4) International plug adapters: NEMA 1-15P (North America), CEE 7/16 Schuko (Europe), BS 1363 (UK) and AS/NZS 3112 (Australia)
- Surface-mounting hardware
- Installation instructions



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The encoder can extend control methods including USB (via Micro-USB host connection for keyboard, mouse and peripherals), RS-232 for device and system control and bi-directional IR for remote source and display operation. This makes the B163-Series suitable for KVM-style workflows, control rooms and automation-driven AV installations.

TAA-Compliant for GSA Schedule Purchases

The B163-001 is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

Specifications

OVERVIEW	
UPC Code	037332300508
Product Type	AV Over IP Encoder
Technology	Cat5/5e; Cat6; DisplayPort; HDMI; USB
VIDEO	
Video Input	DISPLAYPORT (FEMALE); HDMI (FEMALE); USB C (FEMALE)
Video Output	HDMI (FEMALE)
Video Ports	(2) HDMI (FEMALE)
Video Ports Details	HDMI 2.1; HDCP 2.3
Supported Resolutions	1280x720 (720p); 1920x1080 (1080p); 3840x2160 (4K)
Max Supported Video Resolution	3840 X 2160 @ 60HZ
Max. Distance (Between any 2 Units)	100m
Transmitter Video Input	DisplayPort; HDMI; USB-C
Transmitter - Number of Video Outputs	1
Receiver/Transceiver Video Output	HDMI
Receiver - Number of Video Outputs	2
Signal Range (ft)	328 (Supports Max. Distance Over Single UTP CAT5e/CAT6 at 328-FT)
Signal Range (m)	100 (Supports Max. Distance Over Single UTP CAT5e/CAT6 at 100M)
Max Supported Color Depth	12-bit; 36-bit Deep Color
HDR Support	Yes
3D Video Supported	Yes
Chroma Sub Sampling	4:2:0; 4:2:2; 4:4:4
Bandwidth	10.2 Gbps
AUDIO	
Audio Specification	7.1 CH LPCM (LINE-IN)



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NETWORK	
Network Ports	RJ45 (FEMALE)
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
AC Plug Type	AS/NZS 3112; BS1363; CEE 7/16 Schuko; NEMA 1-15P
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)	24.00
Output Volt/Amp (from external power supply)	24.0V/1.0A
Power Consumption Detail	TX: 2W, RX: 2W
CONNECTIONS	
Number of Ports	10
Side A - Connector 1	(4) 3.5MM (FEMALE)
Side A - Connector 2	(1) MICRO-USB B (FEMALE)
Side B - Connector 1	(1) RJ45 (FEMALE)
Side B - Connector 2	(1) USB C (FEMALE)
Side B - Connector 3	(1) DISPLAYPORT (FEMALE)
Side B - Connector 4	(2) HDMI (FEMALE)
Connector Plating	Nickel
Daisy-chainable / Cascadable	Yes
Daisy-chainable / Cascadable Details	Up to 30 Units
USER INTERFACE, ALERTS & CONTROLS	
Front Panel LEDs	4
LED Indicators	Power: Solid Green. Transmitter Link: Orange. RJ45 Jack: Green (Connection), Orange (Transmission).



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PHYSICAL	
Color	Black
Material of Construction	SECC
Rackmountable	Yes
Shipping Dimensions (hwd / in.)	2.17 x 13.86 x 6.46
Shipping Dimensions (hwd / cm)	5.51 x 35.20 x 16.41
Shipping Weight (lbs.)	1.68
Shipping Weight (kg)	0.76
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 Dimensions (hwd / mm)	29.7 X 235 X 100
Unit Packaging Type	Box
Unit Weight (lbs.)	1.45
Unit Weight (kg)	0.66
ENVIRONMENTAL	
Operating Temperature Range	32° to 104°F (0° to 40°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0 to 85% RH, Non-Condensing
BTUs	DC: 16BTU; POE: 20BTU
COMMUNICATIONS	
Signal Range (ft.)	328
Signal Range (m)	100
Transmission Distance	328 ft (100m)
EDID Compatible	Yes
IR Remote Extension Support	Yes
RS-232 Serial Extension Support	Yes
Consumer Electronics Control (CEC) Supported	No
Latency	2 ms (2160P)
USB Extension Support	Yes
FEATURES & SPECIFICATIONS	
10/100 Ethernet Extension Support	Yes
Integrated/Removable Cable	No
MST Support	No



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Mounting Accessory Included	Yes
Multi-Resolution Support	No
Port Selection	Pushbutton; Remote Selector
HDCP Specification	2.3
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	RoHS; CE (Europe); REACH; WEEE; Trade Agreements Act (TAA)
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	1-year limited warranty

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