BBG-1190-ENC-H264-IP • HD/SD-SDI/CVBS H.264 Standalone Encoder (Single-Channel) with Streaming IP Output with Advanced Protocol Support including

UDP Single/Multicast, HLS, and RTMP



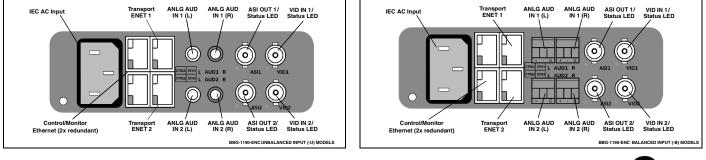
The **BBG-1190-ENC-H264-IP** encoder provides a compact form-factor standalone unit for distribution of MPEG-4 encoding. The encoder is **designed specifically for distribution**, with cost savings of offering only streaming IP instead of IP and DVB-ASI which is not needed for distribution. The BBG-1190-ENC-H264-IP is perfectly suited for IP video distribution over the Internet or over a dedicated IP link. Utilizing the openGear[®] open-architecture platform, the BBG-1190-ENC-H264-IP offers easy-to-use DashBoard[™] setup and control operator interface. The advanced front panel display/user interface also allows initial and basic configuration setup without needing a computer or connection to remote control. Low-profile packaging fits 1 RU installations.

The BBG-1190-ENC-H264-IP offers the latest advances in video compression that delivers excellent video quality at very low bit rates. Unique encoding designs allow delivery of multiple HD and SD video services simultaneously. In addition to HD/SD-SDI inputs, the BBG-1190-ENC-H264-IP provides the flexibility of supporting SD analog composite video and an analog audio stereo pair per input channel. The BBG-1190-ENC-H264-IP provides two Ethernet outputs, supporting full-duplex 100 Mb/s and 1 Gb/

s operation. Input video auto-detect mode allows encoding to automatically configure an output that correspond to the input, with resolution and frame rate same as input, and scaling set to same as input or other applicable choices. SMPTE-2038 processing allows inserting generic ancillary data packets in the transport stream, with frame accuracy. Up to four DID/ SDID pairs can be supported. Using HTTP Live Streaming, the BBG-1190-ENC-H264-IP can transmit broadcast-quality video to mobile phones (Apple and Android 4.0 supported) and tablets. Full user remote monitor/control allows full card status and control access across a standard Ethernet network.

FEATURES

Compact self-contained form with built-in AC power supply. Up to 3 units can be installed in a Support for inserting generic ancillary data packets in the transport stream using 1RU tray. SMPTE-2038, with frame accuracy. Up to four DID/SDID pairs can be supported. Input video auto-detect mode automatically configures output to correspond to input frame HTTP Live Streaming protocol allows viewing by Apple[®] and Android[™] 3.0 (or higher) devices rate and scaling or convert formats using built-in UDX scaler RTMP support for publishing to Adobe® Media Server, availing SDI content to Internet viewers. Built-in video/audio ADC and embedder allows direct use with SD composite video and audio Streams to CDNs, Akamai, Ustream, YouTube, Wowza Cloud service and many others. analog sources Remote control/monitoring via DashBoard™ software. Initial and basic setup without Full support of CEA-608 and CEA-708 closed captioning. Closed-captioning filtering allows connection to external network or remote control via front panel UI. filtering to allow and use only SMPTE-334M and/or CEA-708 closed captioning. Dual-redundant internal power supplies SCTE 104 to SCTE 35 conversion Five year warranty HD/SD - SDI / **Cmpst BNC In 1** Encoder A/V ADC Analog Audio Transport Ethernet Out 1 Output Embed/ Input L/R In 1 Serialize Switch Switch Transport Ethernet Out 2* Encode HD/SD - SDI / Cmpst BNC In 2* DashBoard™/OGCP **Control Ethernet** A/V ADC, with DashBoard™ Monitor/Control Analog Audio Embed/ L/R In 2* Serialize this color denotes option Second stream available with hardware option -ENC-H264-IP BBG-1190-ENC-H264-IP .G AUD AUD



DashBoard=

COBALTDIGITAL.COM US SALES 800 669-1691 / DIRECT +1 217-344-1243 / SALES@COBALTDIGITAL.COM Specifications subject to change. E&OE. @2020 Cobalt Digital Inc



BBG-1190-ENC-H264-IP • HD/SD-SDI/CVBS H.264 Standalone Encoder (Single-Channel)

with Streaming IP Output with Advanced Protocol Support including

UDP Single/Multicast, HLS, and RTMP

SPECIFICATIONS

Electrical

Power: 100-250 VAC, 47-63 Hz, 14W

Processing Channels

(1) channel (Second additional channel available with option -ENC-H264-IP)

HD/SD-SDI Input

(1) input/channel; each configurable as:
HD-SDI (SMPTE 292M)
SD-SDI (SMPTE 259M) with EDH
Composite analog video (PAL/NTSC)

Audio Inputs Supported

Embedded SDI (1 pair/channel) Unbalanced or balanced stereo audio pair (see Ordering Information)

Audio Encoding

MPEG-4 AAC-LC Lip sync adjustment

Video Encoding

MPEG-4 AVC High profile at level 4.2 (HP@L4.2) MPEG-4 AVC High profile at level 4.0 (HP@L4.0) CBR & VBR 2Mbps to 12Mbps (configurable) SD Video: MPEG-4 AVC Main profile at level 3.0 (MP@L3.0) CBR & VBR 1.5Mbps to 10 Mbps (configurable)

Video Resolution Supported

HD: 1920 x 1080p 60/50/30/29.97/25 1080 x 1920/1440i 30/29.97/25 1280 x 720/960/640p 59.94/50/30/29.97/25 SD: 576 x 720/528i 29.97fps 576 x 720/528i 25fps

ORDERING INFORMATION

Video Pre-Processing Closed Captions CEA 608B and CEA-708C WSS/AFD

Management and Control 10/100Base-T Ethemet Configuration Import/Export Audible/visual fault warning In-band and out-of-band control SNMP v1, v2 Datasafe automated card configuration Accurate bit rate control

Startup to streaming in seconds

Ethernet Outputs

Number of outputs: (2) 100/1000Base-T RJ-45 ports, auto-negotiate or fixed speed IPv4, IPv6, UDP

Regulatory Compliance

CE: CE marked in accordance with 89/336/EEC, 72/23/EEC and 1999/5/EEC Directive UL: UL approval US FCC: Part 15 EMC: EN55022, EN55024, EN6100-3-2 Safety: IEC60950 RoHS: 2011/65/EU WEEE: 2012/19/EU

Physical

Dimensions (WxDxH): 5.8 x 14 x 1.7 in (14.6 x 35.6 x 4.4 cm) (including component projection) Operating Temperature/Humidity: 32°F to 122°F (0°C to 50°C); 5% to 95% non-condensing

BBG-1190-ENC-H264-IP-B HD/SD-SDI/CVBS H.264 Standalone Encoder (Single-Channel) with Streaming IP Output with Advanced Protocol Support including UDP Single/ Multicast, HLS, and RTMP - Balanced Analog Audio Input

BBG-1190-ENC-H264-IP-U HD/SD-SDI/CVBS H.264 Standalone Encoder (Single-Channel) with Streaming IP Output with Advanced Protocol Support including UDP Single/ Multicast, HLS, and RTMP - Unbalanced Analog Audio Input

Note:

• Options denoted as "+" are software-based options which are available on new product when ordered or can be customer field-installed as a software upload upgrade.

• Options or ordering line items denoted as "-" are hardware-based options/items. These options are available as factory-installed only on new product, or product returned to Cobalt for factory installation.

Options (Software-Based)	
+IP-TO-BROADCAST-P-SA	Upgrade a BBG-1190-ENC-H264-IP (single-channel model) to single-channel model BBG-1190-ENC-HD-P plus one +AAC license
+IP-TO-BROADCAST-I-SA	Upgrade a BBG-1190-ENC-H264-IP (single-channel model) to single-channel model BBG-1190-ENC-HD-I plus one +AAC license

+IP-TO-BROADCAST-Dual-P-SA Upgrade a BBG-1190-ENC2-H264-IP (dual-channel model) to dual-channel model BBG-1190-ENC2-HD-P plus two +AAC licenses

+IP-TO-BROADCAST-Dual-I-SA Upgrade a BBG-1190-ENC2-H264-IP (dual-channel model) to dual-channel model BBG-1190-ENC2-HD-I plus two +AAC licenses

Options (Hardware-Based and Accessories):

-ENC-H264-IP Add Encoder Second Channel Option (applicable for single-channel model BBG-1190-ENC-H264-IP)

BBG-1100-TRAY 1 RU Rack Mount Tray (supports up to 3 BBG-1100 series units)