



QUESTTEL

Broadcast Systems

3G-SDI/HDMI IP ENCODER

DataSheet

B-HDMI-SDI-IP-EN



Intended Audience

This DataSheet has been written to help people who have to use, to integrate and to install the product. Some chapters require some prerequisite knowledge in electronics and especially in broadcast technologies and standards.

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60FPS@1920 x 1080 · RTSP/RTMP/MPEG-TS · USB Recording

QuestTel's B-HDMI-SDI-IP-EN IP H.264 Encoder for real time IP streaming has several inputs such as HDMI, 3G-SDI and Composite video, providing a wide range of video sources with embedded audio. It's equipped with professional hardware encoder module and dedicated FPGA memory buffer for stable and high quality H.264/MJPEG encoding.

Overall B-HDMI-SDI-IP provides support for over 50 video formats from NTSC/PAL to 2048p@30. This compact encoder solution brings many benefits of internet broadcasting to your system, ensuring clear quality and high performance. B-HDMI-SDI-IP-EN complies with all forefront internet streaming technologies and supports a wide range of protocols including RTSP/RTMP/MPEG-TS. All things considered, B-HDMI-SDI-IP-EN is very versatile tool for converting 2K HDMI or 3G-SDI video source to IPTV stream.

QuestTel's portable iptv series includes matching decoder, which comes in similar casing and has a full capacity of receiving and decoding IP signal back to HDMI or SDI interface.

Key Features

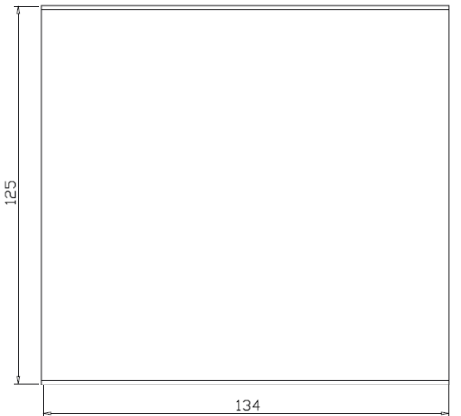
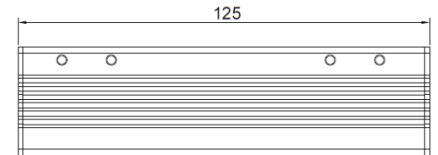
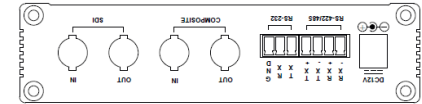
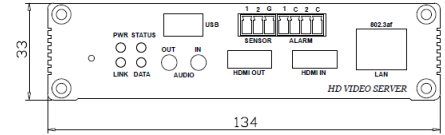
- 60FPS @ 1920 x 1080
- 50 Types of Input Formats
- RTSP/RTMP/MPEG-TS Supported
- Quadruple Streaming
- Embedded Audio
- Dual Power (DC/PoE)
- ONVIF, PSIA Compliant

Specifications

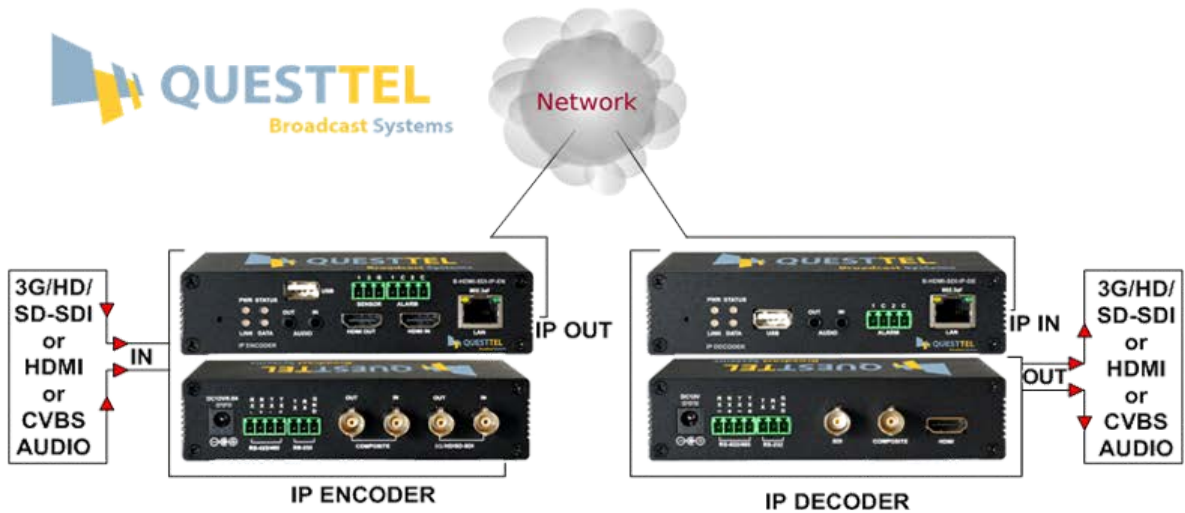
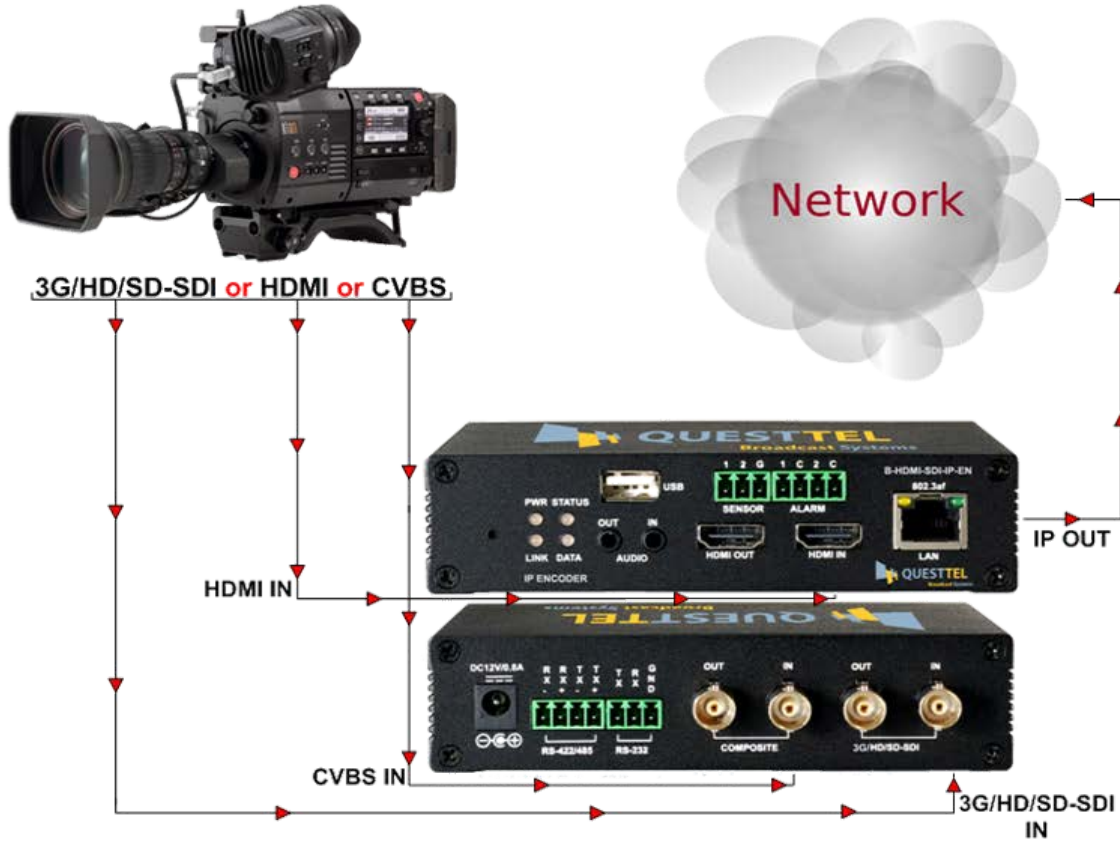
SYSTEM	System Mode	Encoder
VIDEO	Compression	H.264 BP, HP, MJPEG
	Input Format	51 Types of input format from NTSC/PAL to 2048 x 2048p30
	Bitrate	Primary: 32Kbps ~ 16Mbps, Secondary: 32Kbps ~ 4Mbps
	Resolution	320 x 240 ~ 1920 x 1080
	Streaming	Primary : H.264, Secondary x 3 : H.264/MJPEG
	Burn-in OSD	Multi-lingual
	Input	1 x HDMI (Type A) 1 x Composite (BNC) 1 x 3G-SDI (BNC)
	Output	1 x HDMI type A, Input Bypass 1 x Composite (BNC), Input Bypass 1 x 3G-SDI (BNC), Input Bypass
AUDIO	Compression	G.711 / AAC
	Sample rate	G.711: 8KHz, AAC: 32/44.1/48KHz
	Bitrate	G.711: 64Kbps, AAC: 64Kbps/128Kbps
	Streaming	Full duplex
	Input	1 x Line-In (stereo, mini-stereo type)
	Output	1 x Line-Out (stereo, mini-stereo type)
NETWORK	Interface	Ethernet 10/100/1000base-T (RJ-45)
	Protocol	IPv4/v6, TCP, UDP, IGMP(Multicast), ICMP, DHCP, HTTP, HTTPS, RTP, RTSP, RTMP, FTP, SNMP, SMTP, UPnP, WS-Discovery, Zero, Configuration, NTP, DDNS
	Security	Password protection, IP address filtering, HTTPS encryption
	Application Programming Interface	Truen protocol/SDK, ONVIF, PSIA, MPEG-TS
EVENT / ALARM	Event sources	Motion, Sensor input, Video loss, Client disconnection
	Event actions	Notification(E-mail), FTP, PTZ preset, Alarm control, Recording
GENERAL	Housing	Aluminum
	Certifications	CE, FCC, KCC, RoHS
	External devices	2 x Sensor-In (dry contact, NO/NC) 2 x Alarm-Out (dry contact, NO) 1 x RS-232 port 1 x RS-422/485 port 1 x Buzzer (88dB min)
	Edge storage	1 x USB 2.0 port
	Power Supply	Min DC12V/1.0A, PoE(Power over Ethernet): 802.3af
	Power Consumption	DC12V/PoE : Max 9.6W
	Operating Temp.	-10°C ~ 50°C (14°F ~ 122°F) / 20% ~ 80% RH
	Dimension	134.08(W) X 125.5(D) X 36.87(H)mm
	Weight	470g

Dimensions

(mm)



Application Drawing



Read before operating equipment.

1. **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
2. **Power Sources** - Use supplied or equivalent UL/CSA approved low voltage DC plug-in transformer.
3. **Outdoor Antenna Grounding** - If you connect an outside antenna or cable system to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
4. **Lightning** - Avoid installation or reconfiguration of wiring during lightning activity.
5. **Power Lines** - Do not locate an outside antenna system near overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, refrain from touching such power lines or circuits, as contact with them might be fatal.
6. **Overloading** - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
7. **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts, resulting in a fire or electric shock. Never spill liquid of any kind on the product.
8. **Servicing** - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
9. **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power supply cord or plug is damaged.
 - If liquid spills or objects fall into the product.
 - If the product is exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. An improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - If the video product is dropped or the cabinet is damaged.
 - When the video product exhibits a distinct change in performance, this indicates a need for service.