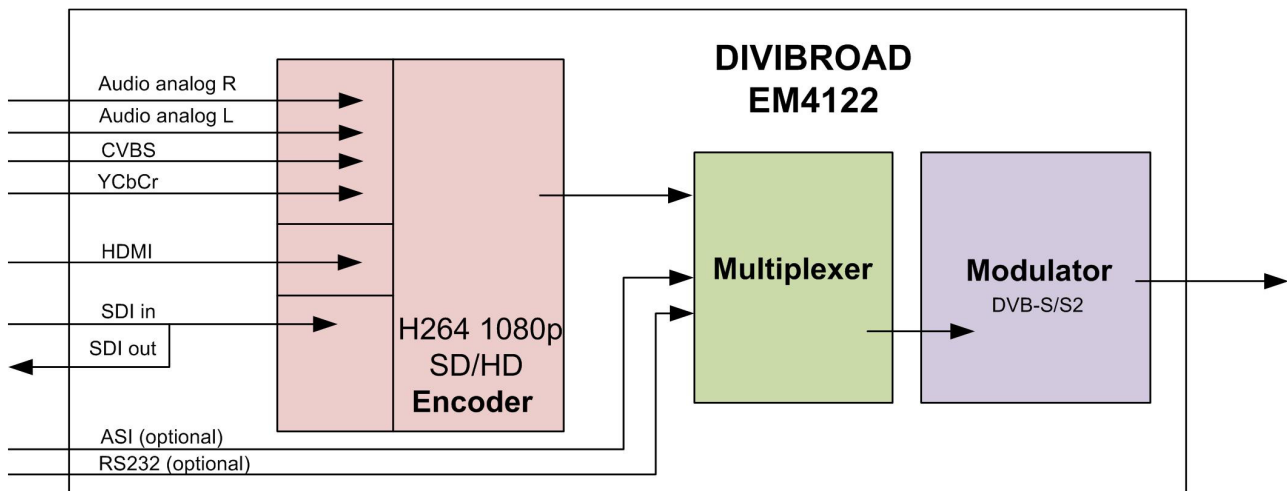


1RU efficient SD/HD H264 1080p Encoder for Digital Satellite News Gathering

Turn around applications include typically:

- Contribution and Distribution broadcast professional TV applications
- SNG applications such as SNG van, fly away and drive away
- Transmission of TV signals to/from TV studio

DiViBroad EM4122 encoder is ideally suited for professional TV environment. Having excellent price-performance ratio. The EM4122 has outstanding robustness with easy-of-use operation functionality. DiViBroad EM4122 provides 3 Gbps (1080p) SD/HD SDI inputs or HDMI, CVBS and component inputs. DiViBroad EM4122 has an output encoder interfaces one DVB-S/S2 broadcast modulator with a combined IF and L-band output. The user can control and monitor the EM4122 on the front of the encoder, RS232 interface, and web management interface (optional SNMP interface).



Key features:

- AVC encoding SD/HD up to 1080p 60/50 FPS
- SDI input from 270Mbit/s to 3Gbit/s
- Auto-diagnostic generation
- Boot time < 2 second
- Power consumption < 15 Watt
- Internal integrated multiplexer for TS cascading with additional external transport streams I (optional)

DVB-Receiver	Transcoder	Streamer	Headend-Solution	DIVIBROAD The Digital Video Broadcast Equipment Factory www.divibroad.com
DVB-Encoder	Multiplexer	Server	IPTV-Solution	

Input Video

- CVBS, YCbCr,
- 1x HDMI Version 1.4 (deep color) type C connector, 24 bit (3x8bit) and 30bit (3x10bit) deep color (R,G,B / Y,Cr,Cb / X,Y,Z) (2 channel audio embedding) SMPTE 274/ 296M-2001/ ITU-R BT.656
- 1 x SDI video on 75 Ohm BNC connector (2 channel audio embedding) SMPTE 274/ 296M-2001/ITU-R BT.656/ 4.2.2 input supported

Inputs Audio

- SDI /HDMI embedded 2 channels (pair 1)selected from the input signal
- 2 analog channels (not combinable with SDI or HDMI video input)

Connectors analog

- Audio: 2x SMB- male unbalance
- Video: 3x SMB- female

Connectors digital

- HDMI: Type C
- SDI 2x BNC

Encoding/ Video

- H.264 high profile / level 4.2 Half-duplex max. 1-30 Mbit 4:2:0 encoding
- Resolution: 1920 x 1080 x 60p/50p 1920 x 1080 x 60i/50i/30p/24p, 1440 x 1080 x 60i/50i/30p/24p, 1280 x 720 x 60p/50p, 720 x 480 x 60i, 720 x 576 x 50i
- HD/SD Down scaler embedded

Encoding/ Audio

- Audio Formats MPEG-1 Audio Layer 2 64-384 kbps (2 channels)
- optional 6 channels Linear PCM/
- on request Dolby® Digital (AC-3)*2, MPEG-2/4 AAC (LC profile),

Output

- Output DVB-S standart ETSI-EN 300421) and DVB-S2 standart ETSI-EN 302307)
- Supported modular on schemes and FEC
 DVB-S: QPSK: 1/2, 2/3, 3/4, 5/6, 7/8
 DVB-S2: QPSK: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
 8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
 16APSK: 2/3, 3/4, 4/5, 5/6,8/9, 9/10
 32APSK: 3/4, 4/5, 5/6, 8/9,9/10

IF- + L-Band output

- Frequency 70 - 2300 MHz (1 KHz steps) Level - 36/ 0 dBm (+/- 1,5 dB)
- support 16Kb and 64Kb FEC blocks/ pilot mode/ Roll-of 20%/25%/35%
- 1-32 Msymbol
- Connector SMA (F), 50 ohms

Monitor & Control:

- setting via the front panel or Web interface
- optional RS-232
- optional SNMP interface

General Specifications:

- Power: 90-260 VAC/ optional 5-24 Volt / 10 Watt
- Operating Temperature:+0°C to +40°C / +32°F to+104°
- Storage Temperature: -40°C to +70 °C / -40°F to +158°F
- Size: (WxHxD) 19"x1.75"x20"D(1 RU),
- Weight 8.8-13.2 lbs. 4-6 kg Varies based on product options

Designed and built in Germany

DVB-Receiver

Transcoder

Streamer

Headend-Solution

DVB-Encoder

Multiplexer

Server

IPTV-Solution

DIVIBROAD
 The Digital Video Broadcast Equipment Factory
www.divibroad.com