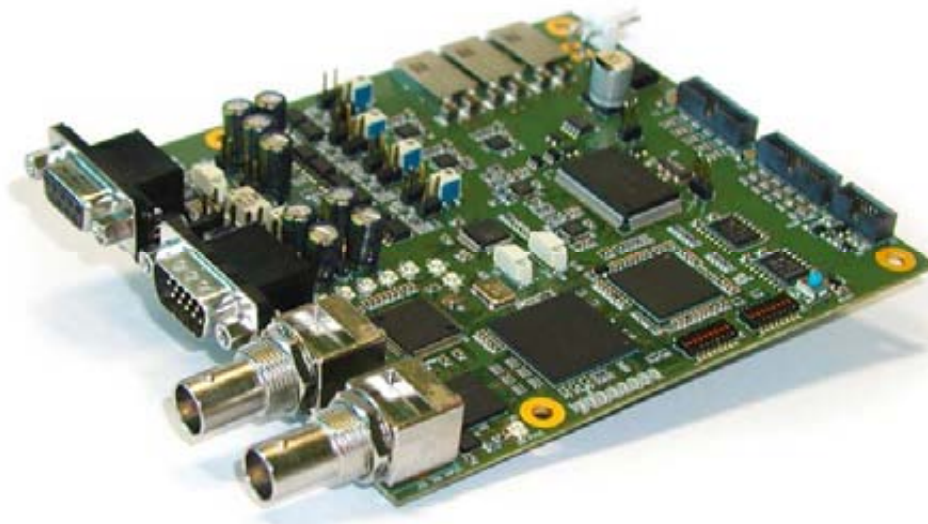


MPEG-4 (H.264/AVC) SD/HD ENCODER BOARD

The high quality, professional and cost-effective solution



The “**MPEG-4 encoder Board**” is a high quality, professional, flexible and really cost-effective solution to compress a video/audio signal, according to MPEG-4 (H.264) standard.

Applications

- Digital TV Broadcasting
- Digital satellite Uplinks for Distribution and Contribution
- DSNG Mobile news gathering
- Digital Microwave Links (Mobile and STL)

Features

- Real time MPEG-4 H.264/AVC Encoder from SD (Standard Definition) to full HD (High Definition) 1080i High Profile @ Level 4.0 (with Down-scaler embedded)

- Encoding bit rate: from less than 2Mbit/s up to 24Mbit/s
- Audio encoding: MPEG-1 Audio Layer 2 (AAC encoding option under development)
- Inputs: SDI / HD-SDI with embedded or separate AES - EBU audio; analog SD Video and Audio
- User configurable Encoders settings (resolution, bit rate, ...) + easy to recall pre-defined factory settings
- Teletext or Closed Captioning extraction from video input and reinsertion in the Transport Stream;
- Stand alone operation (with jumpers/switches configuration) and RS232 remote control interface (management software and communication protocol supplied)

MPEG-4 (H.264/AVC) Encoder board

VIDEO INPUTS

Video input format:	Digital SDI / HD-SDI with embedded or separate AES - EBU audio; Analog (Standard Definition only) composite PAL / SECAM / NTSC
Digital video input:	SDI / HD-SDI - 75Ω / BNC socket
Analog Composite video input:	1Vp-p / 75Ω / BNC socket

VIDEO ENCODING

Standard:	ISO/IEC 14496-10 (H.264/AVC) Main Profile Level 3.0 and High Profile Level 4.0
Bit rate:	From less than 2Mbit/s up to 24Mbit/s
Supported resolutions:	1920 x 1080 x 60i/50i/24p, 1440 x 1080 x 60i/50i/24p, 1280 x 720 x 60p/50p/24p, 720 x 480 x 60i, 720 x 576 x 50i
Down scaler:	Embedded
Picture encoding type:	I, P, B
Minimum latency:	According to settings (resolution, bit rate etc.) – around 500ms

AUDIO INPUTS AND ENCODING

Audio input format:	Analog: Two channels (one pair) - mono, stereo, dual, joint stereo Digital SDI/HD-SDI with embedded audio or with AES/EBU audio input
Analog audio inputs:	0dBu (adjustable) / 600Ω balanced
Sampling frequency:	32KHz, 44.1KHz, 48KHz
Encoding standard:	ISO / IEC11172-3 (MPEG-1 audio) layer 2 - compliant
Bit rate:	Max 448Kb/s

OUTPUT STREAM AND INTERFACE

Stream type and output interface:	Parallel Transport Stream (SPI-LVTTL) Option: ASI with additional board
System multiplexing:	ISO / IEC 13818-1 (MPEG2 TS) – PAT, PMT and SIT tables

OTHERS SPECIFICATIONS

Pre-settings:	Factory presets + User configurable
Teletext / Closed Captioning data:	Extraction from analogue video input

GENERAL SPECIFICATIONS

Power supply:	12V D.C.
Control interface:	RS232 (management software and communication protocol supplied)
Board dimensions:	110 x 126 mm. (connectors excluded)
Operating temperature range:	0 to 45° C.



All specifications contained in this document may be changed without prior notice.