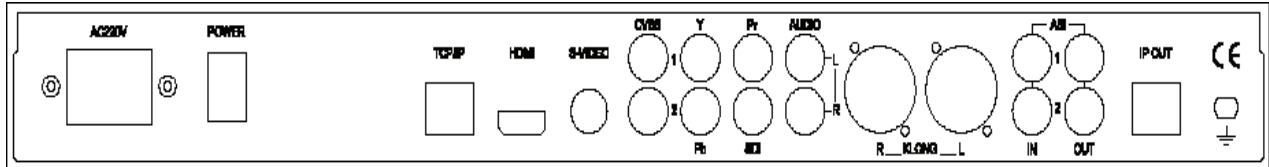


COL5100 H.264 Encoder



Outline

COL5100 H.264 Encoder is a new generation broadcasting level video and audio encoding equipment from Colable Electronics, which adopts the most advanced H.264/AVC video coding arithmetic and AAC audio coding arithmetic, along with colable's exclusive video and audio pretreatment technology, is able to realize high quality video and audio encoding and transmitting in low code rate, and provide customers superb digital video encoding solution.

Features

1. Technical Specifications

1.1 Video interface characteristics

1.1.1 Composite video signal

Video system: NTSC(525/60), PAL(625/50)(optional)

Connector: BNC

Impedance: 75Ω , unbalance

Frequency: 25Hz~5.75MHz

Level: 1.0Vp-p

Quantization: 12bits, subject to CCIR-601

Sampling frequency: 27MHz

1.1.2 S-Video/YPbPr

Connector: Mini-DIN 4

Impedance: 75Ω , unbalance

Y signal level: 1.0Vp-p

Y signal frequency: 25Hz~5.75MHz

C signal level: 0.285Vp-p

C signal frequency: 25Hz~2.75MHz

Quantization: 12bits(Y), 12bits(C), subject to CCIR-601

Sampling frequency: 54MHz

1.1.3HDMI digital interface (optional)

Video standard: Subject to HDMI v 1.3

Video standard: Subject to HDMI 1.3, S/PDIF (IEC90658) compatible

1.1.4SDI (series data interfaces, optional)

Connector: BNC

Impedance: 75Ω□

Standard: Subject to SMPTE 259/292M protocol

1.2Audio interface characteristics

1.2.1Analogue audio signal

Connector: BNC (unbalance) and XLR (balance)

Impedance: 600Ω , balance or unbalance

Input: One way stereo or two ways independent mono-channel audio signals

Output rate: 64kbps~384 kbps

Quantization: 16bits

Sampling frequency: 48kHz,

1.3 MPEG-2 TS input interface

Interface characteristic: meets DVB ASI standard

Connector: BNC

impedance: 75Ω

packet format: 188bit

data rate: 270Mbps

1.4 H.264Video code compressing

1.4.1. Video

- .Meeting ISO/IEC14496-10(H.264/AVC)
- .Output rate:0.5-20Mbps
- .Support VBR/CBR coding

1.4.2 Audio

The audio coding standard adopts ISO/IEC11172-3.

1.4.3 Format

DVB standard based TS, PS(program stream) can be selected

1.5 Video Format

Code: 525i、625i、720(60P)、720(50P)、1080(50I)、1080(60I)

Transcode: 525i、625i、720(60P)、720(50P)、1080(50I)、1080(60I)

1.6 Digital interfaces

DVB based ASI interfaces can be used.

1.6.1 DVB ASI output interface

Interface characteristics: DVB ASI standard

Connector: BNC

Impedance: 75Ω

Packet format: 188 bytes

Data rate: 1-30Mbps

1.7 IP data interface (optional)

Interface characteristic : IP output interface (100M)

Protocol: UDP

1.8 Status control

Video input signal selection.

Composite video、S-Video、YpbPr HDMI and SDI

1.9 Network management interface

Ethernet interface: IEEE802.3 Ethernet, RJ45 interface.

Software protocol: SNMP protocol

1.10 Power off status saving

The encoder can save power off status, so it can automatically restart when power supply is ready again.

1.11 Power supply

Voltage...90V~250VAC

Frequency....50Hz±2%

Power consumption 20W

1.12 Operating Environment

Operation temperature..+5°C~45°C

Storage temperature...-25°C~+55°C

Relative humidity 10~75%

1.13 Radiation and Safety standards

Meeting GB13837-92 and GB8898-88

1.14 Mechanic characteristics

Dimension: 44.5 mm(1U)×483mm(19")×300mm

1.15 Weight

5kg

The information contained herein is subject to change without further notice