H 264 Encoder

Product Profile

This Encoder create a single H.264 channel on your
building, campus or metropolitan-area IP network
from the output of various video devices. These
include video cameras, DVD/Blu-ray players,
digital signal systems, personal computers and
even set-top boxes for premium TV channels.
Encoder blades are available for both SD and HD
MPEG4 AVC encoding. It is equipped with the
latest advances in video compression technology
to deliver unsurpassed video quality at lowest
bitrates, and low latency to achieve high image
quality video and audio transmission, fully
supported for H 264 Video Transfers.

Main Application

SDI/HD-SDI,Composite,HDMI,YPbPr,S-Video
interfaces inputs encoding, both IP and two
identical ASI data outputs. It also can be used to
support IPTV, broadcast and video surveillance
applications.

This Encoder has highly bandwidth efficient
MPEG-4 CBR encoding and native IP output make
it possible to deliver exciting and competitive HD
services to broadcast operators Digital TV and

IPTV head end system Point to Point video and
audio over IP Remote live Rebroadcasts and
real-time transmission Building, campus or
metropolitan-area

Highlights

➡ Advanced MPEG-4 AVC HP@L4,
MP@L3 video compression

➡ ASIC technologies which offer
broadcast video quality, generally video
bitrate advised SD about1.2mbps, 720p
about 2mbps,1080i about 6mbps for lowest
bitrate HDMI 1.3a interface.

➡ Support the importation of SDI/HD-
SDI, HDMI, CVBS, S-Video, YPbPr encoding
Supports unicast and multicast IP output
UDP protocol as well as two identical ASI
outputs.

➡ Management via External SNMP and
local front panel.

➡ Supports resolution:1080i@50/60Hz,
720p@50/60Hz, 480I, 576I

➡ Built-in time base correction and video
pre-processing.

➡ Easy-to-Use System Management
Sampling Rates: 48KHz

➡ Auto detect the HDMI input of
resolutions.

Technical Specifications

➡ **Video Input**

1 x Composite: level 1.0Vp-p, Impendence 754,BNC 1 x S-Video Analog Component Video Interface
1 x Digital SMPTE 292M (HD-SDI) digital video, BNC 1 x HDMI 1.3a
1 x YPbPr component video interface,BNC

➡ **Audio Input**

2 analog stereo audio, BNC interface (unbalanced) HDMI/SDI embedded audio XLR,AES/EBU(OPTION)

➡ **Output**

DVB Interface: Two identical ASI, Comply to EN 50083-9 ASI Standard, BNC, 754
IP output:100M Base-T Ethernet UDP/IP output, Multicast/Unicast supported
Output Format: 188 bytes, 7x188 bytes per udp packet Output Rate: 0.8Mbps~20Mbps

➡ **Environment**

Comply to GB13837-92 & GB8898-88 standard
Power Supply: AC 100-250V 50/60Hz
Power consumption: 20 W
Operating temperature:-10 - 50°C Storage temperature: -10 - 75°C
Dimensions: 300 (L)X483(W)X 44mm(H) (1RU)
Weight: 5kg

➡ **Video Encoding Features**

Comply to the International standard:MPEG-4 AVC High Profile, Level 4,Main profile Level 3.0
Aspect ratio:16:9(HD),4:3(SD) Scene change detection
Bit rate mode: VBR,CBR
Brightness / Contrast / Saturation / Chroma /Horizontal Offset
GOP Structure: IBBP
Stereo or Single channel

➡ **Audio Encoding Features**

Sampling Rates: 48KHz
Bit rate: 64, 128, 192, 256, 384kbps Audio encoding: MPEG-1 Audio Layer2 Audio Gain: 0-16
Quantization:24bit

➡ **Resolution**

Accordance to CCIR601 standard
1920x1080i,1280x720p,720x480I,720x576I

➡ **Management**

10/100 Base T Ethernet, RJ45, SNMP
7 keys: Up, Down, Left, Right, Enter, Esc, Lock
Front-panel LCD configuration, LED indicate light SNMP protocol support

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