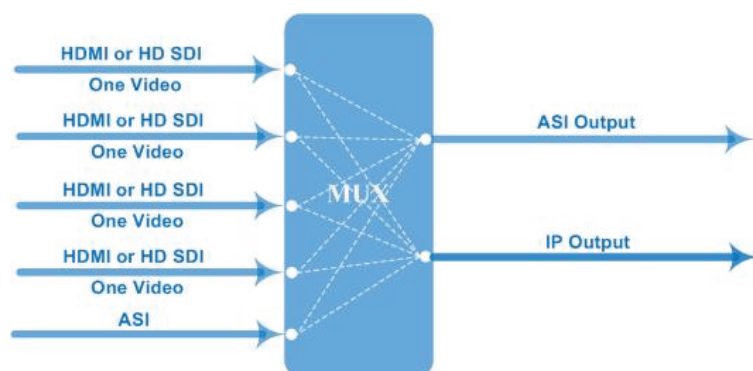# Juice Encoder

EN 5004 - 4 in 1 MPEG-4 AVC/H.264 HD Encoder

ENCODER

The Juice Encoder EN 5004 - 4 in 1 MPEG-4 AVC/H.264 HD encoder is a professional HD audio & video encoding and multiplexing device with powerful functionality. It has 4 channels HDMI (or SDI) input interfaces, supporting MPEG4 AVC/H.264 High Profile code format. This device can simultaneously encode 4 channel HD programs; moreover, it has an ASI input and can multiplex the input TS with the 4 encoded program to generate ASI and IP output. Also, the PSI/SI information can be inserted into MPTS output. In conclusion, its high integrated and cost effective design makes the device widely used in varieties of digital distribution systems.

Key Features

- Support AVC/H.264 High Profile Level 4.0 video encoding, Advanced video pretreatment algorithm
- Support MPEG1 Layer 2, HE-AAC (V2) or LC-AAC audio encoding (optional)
- 4 channel HDMI (or SDI) inputs and 1 ASI input with Mux
- Support PSI/SI editing and inserting
- Support VBR or CBR video bitrate mode
- Support 720P, 1080I, 1080P HD video format
- Support ASI output MPTS or 4 SPTS
- Support IP output (UDP) MPTS and 4 channel SPTS, unicast/multicast
- Support IP null packet filter
- Support PID filter and transparent transport.
- Real- time effective output bit-rate monitoring
- Support update device through NMS port
- Support LCD / keyboard operating, and network management (SNMP)

AUDIO

Encoding:	MPEG-1 Layer 2, HE-AAC(V2), LC-AAC
Sampling rate:	48KHz
Resolution:	24-bit
Bit-rate:	64Kb/s~384Kb/s each channel

MULTIPLEXING

1×ASI input multiplexed and 4 encoding channel SPTS

STREAM OUTPUT

2×ASI outputs, BNC interface
MPTS and 4 SPTS over UDP,10/100Base-T Ethernet interface, support unicast / multicast

INPUT

4x SDI input> EN5004-SDI
4x HDMI input>EN5004-HDMI
1×ASI input, BNC interface

VIDEO

Resolution:	1920*1080_59.94P, 1920*1080_50P
	1920×1080_59.94i, 1920×1080_50i
	1280×720_59.94p, 1280×720_50p
	720x576_50i, 720x480_59.94i
Encoding:	MPEG4 AVC/H.264 High Profile Level 4.0
Bit-rate:	0.8Mbps~19Mbps (each channel)
Rate Control:	CBR, VBR
GOP Structure:	IBBP

Advanced Pretreatment: De-interlacing, noise reduction, sharpening

SYSTEM FUNCTION

LCD/keyboard operating, net manager (SNMP)Chinese-English control interface
Ethernet software upgrade

INTERFACES ON REAR PANEL

Dimension (W× L× H): 440mm×410mm×44.5mm
Approx weight: 4kg
Temperature: 0~45 **°C** (work), -20~80 **°C** (Storage)
Power: AC 100V-220V±10%, 50/60Hz
Consumption: 25W

ADVANCE INFORMATION:
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