

HPS802A 2 in 1 MPEG-2/H.264 HD Encoder



Encoding interface option



Product Overview

HPS802A is Catcast's professional HD audio & video encoding device which has 2 channels of SDI (SDI/YPbPr+HDMI+CVBS/YPbPr+S-Video+CVBS Optional) input for MPEG-2 and MPEG-4 AVC/H.264 video encoding and MPEG-1 Audio layer 2, LC-AAC, HE-AAC and AC3 audio encoding. It is also equipped with 1 channel ASI input for re-mux. The 2 encoded programs will output through 2 ASI or IP ports in MPTS or 4 SPTS.

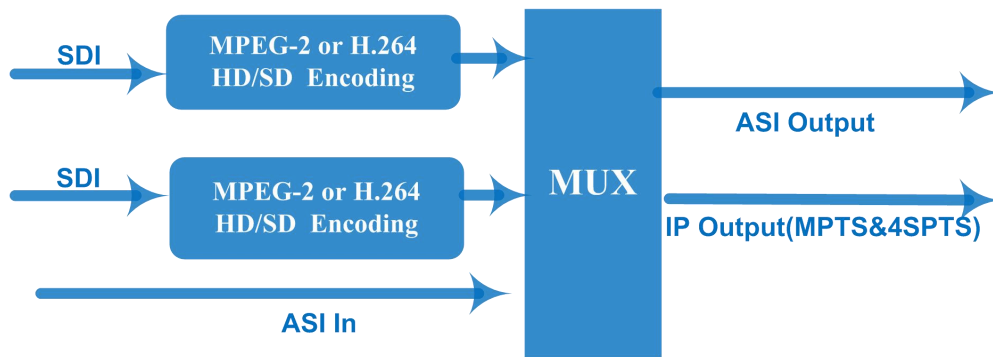
It adopts pluggable design makes it convenient to change encoding module (SDI/YPbPr+HDMI+CVBS/YPbPr+S-Video+CVBS) as needed, it is widely used in digital CATV system.

Key Features

- MPEG2 & MPEG4 AVC/H.264 HD/SD video encoding
- MPEG1 Audio Layer 2, MPEG2-AAC, MPEG4-AAC and Dolby Digital AC3(2.0 optional) audio encoding
- Dolby Digital AC3 passthrough(for HDMI of HDMI/YPbPr/CVBS 3-in-1 Board)
- Support CC (closed caption), EIA 608 and EIA 708 (for SDI input only)
- Support CBR/VBR rate control mode
- Support Low Latency

- Support PSI/SI editing and inserting
- Supports IP null packet filter
- ASI output
- IP output over UDP, RTP/RTSP
- SPTS output bitrate settable
- Web-based NMS management; Updates via web

Principle Chart



Technical Specifications

Encoding Section

Video

Encoding	MPEG2 & MPEG4 AVC/H.264
Input	SDI*2 or HDMI*2
Resolution	1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only) 1920*1080_60i, 1920*1080_50i 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i
Bit Rate	1~19.5Mbps
Low Delay	Normal, Mode 1, Mode 2
Rate Control Mode	CBR/VBR
Chroma Sample	4:2:0
Aspect ratio	16:9, 4:3

Audio

encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, Dolby Digital AC3(2.0 Optional) Dolby Digital AC3 passthrough(for HDMI of HDMI/YPbPr/CVBS 3-in-1 Board)
Sample rate	48KHz
Bit rate	64kbps, 96kbps,128kbps, 192kbps, 256kbps, 320kbps

System

Local interface	LCD + control buttons
Remote management	Web NMS, RJ45, 100M
output	2ASI out (BNC type), IP over UDP, RTP/RTSP (RJ45, 100M)
Language	English

General

Power	AC 100V~240V
Dimensions	482*300*44mm
Weight	3.5 kgs
Operation temperature	0~45°C