

CatCast



HPT108 8-channel H.264 HD Video Encoder Transcoder



Introduction

HPT108 8-channel H.264 HD encoder transcoder adopts standard 1U chassis structure, is a high quality broadcast audio and video real-time encoder transcoder product. This product not only has the traditional MPEG2, H.264/AVC video encoding and transcoding ability, but also supports the latest international video standard H.265/HEVC and China's independent intellectual property rights video standard AVS+, AVS, AVS2 (optional).

HPT108 8-channel H.264 HD encoder transcoder can can compress 8-channel 3G/HD/SD-SDI digital video via powerful CPU+GPU cooperative coding module into any of the above mentioned video

encoding formats in real time, and can also convert 8-channel HD IP input stream or 24-channel SD IP input stream in real time.

Features

- 1U case, advanced CPU and GPU co-coding and transcoding technology are adopted

- Embedded web server supports unified configuration management after remote web page login

- Support H.264/AVC, MPEG-2, H.265/HEVC, AVS, AVS+, AVS2(optional) video encoding format

- Support MPEG-1 layer 2, MPEG-1 layer 3, LC-AAC, HE-AAC, AC3, EAC3 audio encoding format

- Support video acquisition methods: 8-channel 3G/HD/SD-SDI

- Support SDI video 1080p, 1080i, 720p, 576i, 480i video format input

- Support SPTS, MPTS over UDP, FLV over RTMP, HLS over HTTP transmission stream IP input

- Support UDP, RTP, RTSP, RTMP, HTTP, SRT agreements such as the output

- Support the output video stream delay settings, delay time 0-120 seconds custom

- Support internal multiplexer, which can multiplex SPTS program stream after multiplexing and transcoding into MPTS program stream

- Support two gigabit ethernet ports, can be flexible configuration of IP program input and output physical channels

- Support 8-channel HD IP transcoding or 24-channel SD IP transcoding

- Support picture, caption overlay, multi-screen splicing and other software functions customization

- Support main and standby signal switching function

- Support GOP length, GOP structure and bit rate control buffer settings

- Support CBR, VBR rate control mode

- Stable operation of the equipment, supporting 7x24 hours uninterrupted work

Specifications

SDI Input

| | |
|-------------------|--|
| SDI signal format | 3G/HD/SD-SDI |
| Channel | 8 |
| Resolution | 1080p60/50/30/25 1080i60/50 720p60/50/30 576p25, 480p30 576i50, 480i60 |
| Interface | BNC 75Ω |

Video encoding

| | |
|-----------------------|---|
| Video encoding format | H.264/AVC, MPEG2, H.265/HEVC, AVS, AVS+, AVS2(optional) |
| Bit rate | 1.0-50.0Mbps |
| Rate control | CBR, VBR |
| Video pretreatment | De-interleaving |

Audio encoding

| | |
|-----------------------|---|
| Audio encoding format | MPEG-1 layer 2, MPEG-1 layer 3, LC-AAC, HE-AAC, AC3, EAC3 |
| Sampling rate | 48KHz, 44.1KHz, 32KHz |
| Channel | Mono, stereo, 5.1, 7.1 surrounding stereo sound |
| Bit rate | 64Kbps-1024Kbps |

IP stream input

| | |
|-------------------------|---|
| Input interface | RJ45 |
| Rate | 1000Mbps |
| Stream format | H.264/AVC, MPEG2, H.265/HEVC, AVS, AVS+, AVS2(optional) |
| Network protocol | UDP, RTP, RTSP, RTMP, HTTP, SRT |
| Transport stream format | SPTS, MPTS, FLV, HLS |

IP stream output

| | |
|-------------------------|---|
| Output interface | RJ45 |
| Rate | 1000Mbps |
| Stream format | H.264/AVC, MPEG2, H.265/HEVC, AVS, AVS+, AVS2(optional) |
| Network protocol | UDP, RTP, RTSP, RTMP, HTTP, SRT |
| Transport stream format | SPTS, MPTS, FLV, HLS |

Control

| | |
|------------|--|
| Management | Web-based remote network management software |
|------------|--|

Physical

| | |
|-----------------------|-----------------------|
| Dimension(H×W×D, mm) | 44×433×404(mm) |
| Operation temperature | 0-50°C |
| Relative humidity | 0-95%, non-condensing |
| Power supply | 130-260VAC, 50/60Hz |