

Doteck

Doteck RTD Platform2 Series

4-channel H.264 HD Video Encoder Transcoder



Features

- (1) Standard 1U case, advanced CPU and GPU co-coding and transcoding technology are adopted
- (2) Embedded web server supports unified configuration management after remote web page login
- (3) Support H.264/AVC, MPEG-2, H.265/HEVC, AVS, AVS+, AVS2(optional) video encoding format
- (4) Support MPEG-1 layer 2, MPEG-1 layer 3, LC-AAC, HE-AAC, AC3, EAC3 audio encoding format
- (5) Support video acquisition methods: 4-channel 3G/HD/SD-SDI
- (6) Support SDI video 1080p, 1080i, 720p, 576i, 480i video format input
- (7) Support SPTS, MPTS over UDP, FLV over RTMP, HLS over HTTP transmission stream IP input
- (8) Support UDP, RTP, RTSP, RTMP, HTTP, SRT agreements such as the output
- (9) Support 1-channel ASI input and output
- (10) Support the output video stream delay settings, delay time 0-120 seconds custom
- (11) Support internal multiplexer, which can multiplex SPTS program stream after multiplexing and transcoding into MPTS program stream
- (12) Support two gigabit ethernet ports, can be flexible configuration of IP

program input and output physical channels

(13) Support 4-channel HD IP transcoding or 16-channel SD IP transcoding

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

(15) Support main and standby signal switching function

(16) Support GOP length, GOP structure and bit rate control buffer settings

(17) Support CBR, VBR rate control mode

(18) Stable operation of the equipment, supporting 7x24 hours uninterrupted work

Introduction

Dotek RTD platform2 series 4-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).

Dotek RTD platform2 series 4-channel H.264 HD encoder transcoder can compress 4-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 4-channel HD IP input stream or 16-channel SD IP input stream in real time.

Technical Specifications

SDI input	
SDI signal format	3G/HD/SD-SDI
Channel	4
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	1.0Mbps-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
ASI input	
Standard	DVB-ASI standard
Stream format	H.264/AVC, MPEG2, H.265/HEVC, AVS, AVS+, AVS2(optional)
Interface	BNC 75Ω
ASI output	
Standard	DVB-ASI standard
Stream format	H.264/AVC, MPEG2, H.265/HEVC, AVS, AVS+, AVS2(optional)
Interface	BNC 75Ω
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℃
Relative humidity	0-95%, non-condensing
Power supply	130-260VAC, 50/60Hz

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