

# Doteck

## Doteck RTD Platform1 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 the output video stream delay settings, delay time 0-120 seconds custom
- (10) Support internal multiplexer, which can multiplex SPTS program stream after multiplexing and transcoding into MPTS program stream
- (11) Support two gigabit ethernet ports, can be flexible configuration of IP program input and output physical channels

- (12) Support 4-channel HD IP transcoding or 16-channel SD IP transcoding
- (13) Support picture, caption overlay, multi-screen splicing and other software functions customization
- (14) Support main and standby signal switching function
- (15) Support GOP length, GOP structure and bit rate control buffer settings
- (16) Support CBR, VBR rate control mode
- (17) Stable operation of the equipment, supporting 7x24 hours uninterrupted work

### Introduction

Dotek RTD platform1 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 platform1 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

<b>SDI input</b>	
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
<b>Video encoding</b>	

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
<b>Audio encoding</b>	
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
<b>IP stream input</b>	
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
<b>IP stream output</b>	
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
<b>Control</b>	
Management	Web-based remote network management software
<b>Physical</b>	
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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