

# Doteck

## Doteck RTD1 Series

### 4-channel 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 MPEG-2, H.264/AVC, H.265/HEVC, AVS2 video encoding format
- (4) Support MPEG-1 layer 2, MPEG-1 layer 3, AAC 2.0, Dolby Digital 2.0/5.1, Dolby Digital Plus 2.0/5.1 audio encoding format
- (5) Support SDI video 1080P, 1080i, 720P, 576i, 480i video format input
- (6) Support SPTS, MPTS over UDP, FLV over RTMP transmission stream IP input
- (7) Support UDP/RTP/RTSP/RTMP/MMS/HTTP/HLS agreements such as the output
- (8) Support the output video stream delay Settings, delay time 0-120 seconds custom
- (9) Support internal multiplexer, which can multiplex SPTS program stream after multiplexing and transcoding into MPTS program stream
- (10) Support two gigabit Ethernet ports, can be flexible configuration of IP program input and output physical channels
- (11) Support 4-way HD transcoding or 16-way SD transcoding

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

(13) Support the customization of software functions such as tabular superposition and multi-screen splicing

## Introduction

Dotek RTD1 series 4-channel 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 video Encoding and Transcoding ability, but also supports the latest international video standard H.265 and China's independent intellectual property rights video standard AVS2.

Dotek RTD1 series 4-channel 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 input steam in real time.

## Technical Specifications

<b>SDI Input</b>	
SDI signal format	3G/HD/SD-SDI
channel	4
Video format	1080p60、1080p30 1080i60、1080i50 720p60、720p50 576p25、480p30 576i50、480i60
Interface	BNC 75Ω
<b>Video encoding</b>	
Video encoding format	MPEG2、H.264/AVC、H.265/HEVC、AVS2
Rate	1.0~50.0Mbps
Rate model	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 channel
Rate	64Kbps~512kbps

<b>IP stream Input</b>	
Input interface	RJ45
Rate	1000Mbps
Stream format	MPEG2、H.264/AVC、H.265/HEVC、AVS2
Network protocol	UDP、RTMP
Transport stream format	SPTS、MPTS、FLV
<b>IP stream Output</b>	
Input interface	RJ45
Rate	1000Mbps
Stream format	MPEG2、H.264/AVC、H.265/HEVC、AVS2
Network protocol	UDP、RTP、RTSP、RTMP、MMS、HTTP、HLS
Transport stream format	SPTS、MPTS、FLV
<b>Control</b>	
Remote WEB management	Remote network management based on WEB pages
<b>Physical</b>	
Dimension(H × W × D, mm)	44×433×340 (mm)
Temperature	0~45℃ (Operation) ; -20~80℃ (Storage)
Power Supply	130-260VAC, 50-60Hz

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