



HEP100-A2

Multi-Channel Audio Transcoder



Outline

HEP100-A2 is a Multi-Channel Audio Transcoder. It can receive the IP streams over UDP/RTMP/RTSP/HTTP/HLS/SRT protocol, have multi-format files uploaded, convert the source audio formats and output IP streams over UDP/RTMP/HTTP/HLS/SRT protocol. It is an ideal choice of audio transcoding application in TV programs.

Key Features

- **Audio transcoding of max 40 TV programs (not audio program) under the specific condition**
- **Audio format conversion among MPEG 1 Layer 2, AC3, AAC-LC, AAC-HE, AAC-HE-V2, video bypass**
- **4 GE bidirectional Ethernet ports, input or output settable**
- **Video files uploading in TS/MP4/MKV/MOV/FLV format**
- **IP input over UDP/RTMP/RTSP/HTTP/HLS/SRT**
- **IP SPTS output over UDP/RTMP/HTTP/HLS/SRT**
- **Web-base GUI and LCD/Key button for easy management**

Application Example



Specifications

Input	IP Stream Input	4x GE port,RJ45, Protocol: UDP (MPTS/SPTS); RTMP, RTSP, HTTP, HLS, SRT (SPTS)
	Video file uploading	TS, MP4, MKV, MOV, FLV
Video Bypass	Format	MPEG-2/H.264/H.265
	Resolution	4K-50/25,1080p-60/50,1080i-60/50,720p-60/50,576i,480i
Audio Transcoding	Format	MPEG 1 Layer 2, AC3,AAC-LC,AAC-HE,AAC-HE-V2
	Sampling rate	44.1KHz, 48KHz
	Bitrate out	MPEG 1 Layer 2: 32Kbps~384Kbps AC3,AAC-LC,AAC-HE,AAC-HE-V2: 48Kbps~640Kbps
IP out	4x GE port,RJ45,SPTS Protocol: UDP, RTMP (Client mode, push stream to server) RTMP, HTTP, HLS (Server mode, pull stream) SRT (just use caller mode and TS payload)	
System	Web-base GUI and LCD/Key button	
	Language: Chinese/English	
	Ethernet software upgrade	
General	Dimension	482mm×464mm×44mm(WxLxH)
	Temperature	0~50℃(operation), -20~80℃(storage)
	Power Supply	AC 100V-240V 50/60Hz, 2A

Test data for reference:

Protocol conversion	Source Video	Source Audio Format	Targeted Audio Format	Source Audio Bitrate	Targeted Audio Bitrate	Program Number
UDP to UDP	H.264/5Mbps	MPEG 1 Layer 2	LC-AAC	128Kbps	128Kbps	40

Notification:

Program number differs from the different parameters and different test conditions.

CPU utilization is suggested to be lower than 80%.

If a TV program has more than one audio, all audios will be transcoded under the same setting, such as audio format and audio bitrate.

Purely audio program is not available for this transcoder.