Anystream350

50 channels H.264 IPTV Transcoder

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CE

H.264 MPEG-4/AVC MPEG 2 Linux Dual Power Supply



Anystream350, a professional appliance for live content transcoding solution, it provides high-density and scalability for traditional broadcast over cable, IPTV, DTH and DTTV, as well as for multiscreen applications.

For satellite, terrestrial, cable and multiscreen applications, the **Anystream350** has become an ideal solution for operator to provide high quality video transcoding. It can transcode a mix of channels independent of their codec (MPEG-2, MPEG-4 AVC, resolution (HD, SD and low resolution) and frame rate (up to 60 fps). **HLS output** supports multiple resolutions and bitrates in one address, which used for OTT Live system. It can automatically switch resolution based on the terminal's network to ensure the users receive high-quality and smooth videos.

Video can be delivered to an external packager, or it can be internally scrambled and packaged in the Apple® HLS, Microsoft® Smooth Streaming and MPEG-DASH formats. **Anystream350** provides the high bandwidth efficiency on the market, and the best video quality to end users.

Features

- High density 1-RU platform can transcode up to **50*SD or 30*720p or 20*Full HD** profiles
- Creates simultaneous High,Medium, and Low bitrate streams (profiles) of MultiScreen IPTV application
- Baseline, main profile & high profile with variable GOP
- Picture-in-picture (PIP) operation supported
- Default HD-to-SD down; SD-to-HD up optional
- Support RTMP, HTTP Live Streaming and HLS encrypted function, Pull/Push HTTP/RTSP, RTMP, UDP, SDP, SRT protocol for input/out (HTTPS input only, RTMPS output only)
- Support UDP SPTS/MPTS input/output
- 1080i resolution supported for input/output
- Support MPEG-DASH,only for single bitrate, H264, AAC
- **Support backup source and whole device backup (need two units)**
- Flexible GOP structures with Reference-frame and B-frame edit
- High quality pre-processing including filtering, Deinterlacing, cross scaling, image insertion
- PCR correction to accurately correct several PCR of the input data
- Based on embedded Ubuntu Linux via flashdisk
- DVB Subtitle and Logo insertion
- Parameter template settings and imports
- TS parameter configuration: The output stream can be edited to change the program number, program name, supplier (for video output part), easy to identify end device
- Real-time dynamic monitoring of each transcoding channel operation
- Support multiple devices unified management
- **Dual hot-swappable power supply**
- Easy configuration via Web GUI
- Designed for secure 24*365 operation

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Main Application

- Distribute Lowest bitrate HD Video to Ethernet
- Bandwidth reduction for Internet/OTT streaming and wireless networks
- IPTV live stream transcoding
- Transcoding for multi-screens and devices for set-top boxes, tablets, mobile phones
- Small/Middle-Scale Headends for Multiple System Operators
- VOD archives from live streams

TECHNICAL SPECIFICATIONS

Inputs and Outputs

	Two Gig Ethernet Ports, LAN1, LAN2
Connector	RJ45, 10/100/1000M Base-T
	MPEG-TS(MPTS or SPTS) Over IP input
	MPEG-TS (SPTS) Over IP out
	TS Over UDP/RTP/HTTP
	RTP over HTTP
	FLV Over HTTP
	RTMP
	MP3 over HTTP
	FLV
	ASP
	HTTP Live streaming Apple HLS (m3u8)/HLS encrypted
	SRT
	HTTPS (input)
	RTMPS (output)

Pre-processing

LOGO insertion	
Subtitle Overlay	Option Static or roll subtitle, up to 3 way
Deinterlace	default, Close, Linear, Blend, Bob, **Yadif**
PID Configuration	PMT/Video/Audio PID;
	PCR delay/disp interval
Advanced Processing	In-loop De-blocking filter
	Scene detection, CABAC.
	CAVLC Entropy coding Automatic
	PicAFF, MBAFF Interlaced coding Automatic
	Flexible Macroblock Ordering(ASO) and Arbitrary Slice Ordering(ASO) in Baseline profile
	Flexible Macroblock Ordering(FMO) and Arbitrary Slice Ordering(ASO) in Baseline Profile
	8x8 vs, 4x4 Transform Adaptivity in High profile
	Quantization Scaling Matrices in High profile
	I, B and P Slices, Multiple Reference Frames

Video Processing

Bitrate Control	VBR, CBR, ABR, NearCBR
Frame rate	2-60fps
Screen Ratio	4:3, 16:9
Option	Multiple concurrent outputs per each encoding input
Video codec	**H.264 Main/High Profile 3.0- 5.1**
	H.264 Baseline Levels 1, 2, 3
	H.263 Profile Levels 10, 20, 30
	MPEG-4 SP, Levels 0, 0b, 1, 2, 3
Encoding delay	1000-1500ms
B-Frame	0-5
Reference Frame	1-6
Key frame rate	1-18
Video Bitrate	32kbps to 10Mbps
Video Delay	0-1000ms
Scale	Ordinary, Auto Padding intelligent Scale
Fast Mode	Quality Priority, Balanced, Speed Priority
Resolution	3840x2160p(UHD)
	1920x1080p/1080i,1280x720p
	720x576p, 720x480p, 640x480p, 480x360p, Configurable

H.264 Input	H.264 Output	Max.Channels
576P25 @4 Mbps	576P25 @800kbps	50
720P25 @10 Mbps	720P25 @2Mbps	30
1080P25 @18 Mbps	1080P25 @ 4Mbps	20

Audio Processing

Numbers of encoding	2 audio Channels per one video source
(Provides up to 8 audio channels for customization)	
Audio encoding	AAC, AACv2, AMR
	Dolby Digital(AC-3)
	Dolby Digital Plus(EAC-3)
	MP2A,MP3A,Transparent
Audio Channel	Single, Dual, 5.1 Channel
Audio Track	0, 1, 2, 3
AV Sync	0s, 0.5s, 1s, 3s, 4s, 5s, 6s
Sample rate	8khz to 48khz
Bitrate rate	8kbps to 384kbps
Volume	Ordinary,Intensity1,Intensity2,Intensity3
AGC	On, Off

Management

Configuration	Web browser interface
Port	RJ45, 10/100/1000M Base-T, LAN1, LAN2
Language	English

Environment

Cooling	Front to rear airflow
Power Supply	110-240 VAC
Operation temperature	0~50℃ (32 -122°F)
Storage temperature	-40-70°C (-40-158°F)
Power Consumption	200W
Dimensions	427mm (W) x 754mm (L) x 43mm (H)
Weight	11.6kg (26lbs)

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