Anystream400

25* IP/IP H.265 IPTV Transcoder



Anystream400 answers all market requirements and it is a suitable solution for Terrestrial, Satellite, Cable, IPTV,OTT networks. It is a real-time Max-channels transcoder, which can support 25*SD or 12*720p or 6*FullHD (Max. 8 channels 1080p) or 2* 4K streams Simultaneously. With the support for various encapsulation formats base on UDP, RTP/ RTSP, Pull/Push HTTP, RTMP, HLS protocols, it converts HD/SD streams H.264 or MPEG-2 to convert H.265/HEVC format, bitrate and resolution.

The product can be configured to transcode up to 25 PIDs of H.264 video in a 1RU form factor, along with up to two audio PIDs per video PID.

Additional options for stream adaptation, such as deinterlacing, video scaling, frame rate conversion, and audio volume and sample rate conversion allow for serving set-top boxes, tablets, mobile phones and others.

Anystream400 provides the high bandwidth efficiency on the market, and the best video quality to end users. Purpose on Huge number of transcoded channels deployment fast. Our R & D team also provides transcoding capable of 200 channels with high density, High reliability and Cost effective video headend distribution solution.

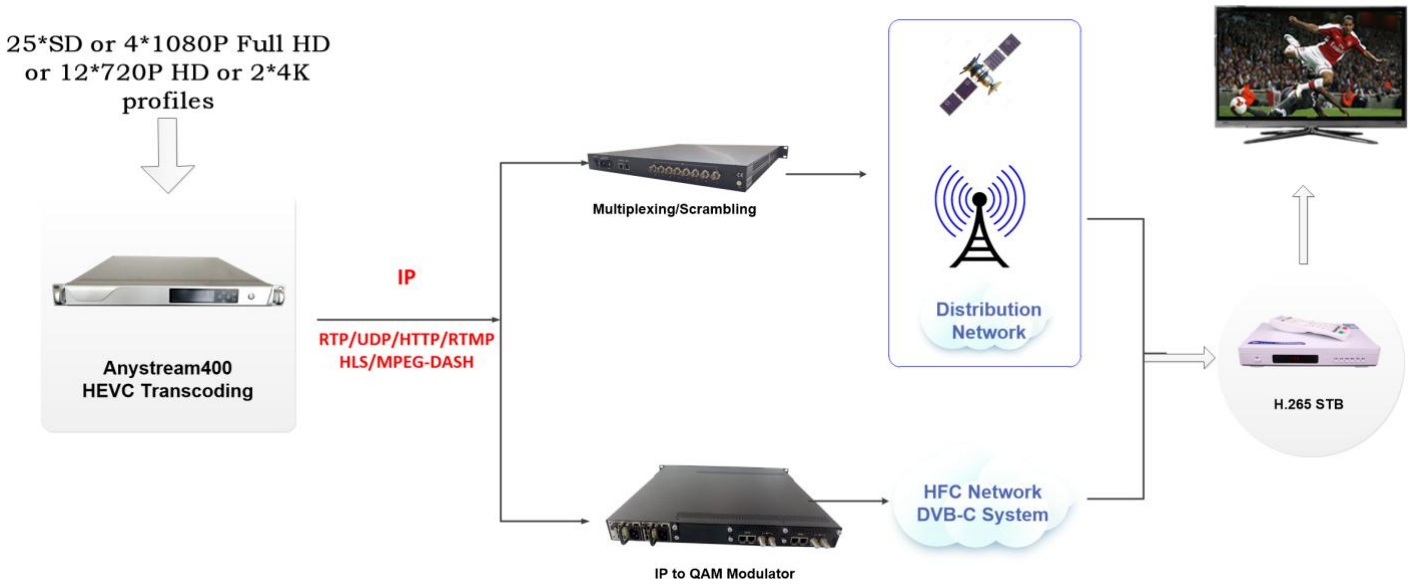
Features

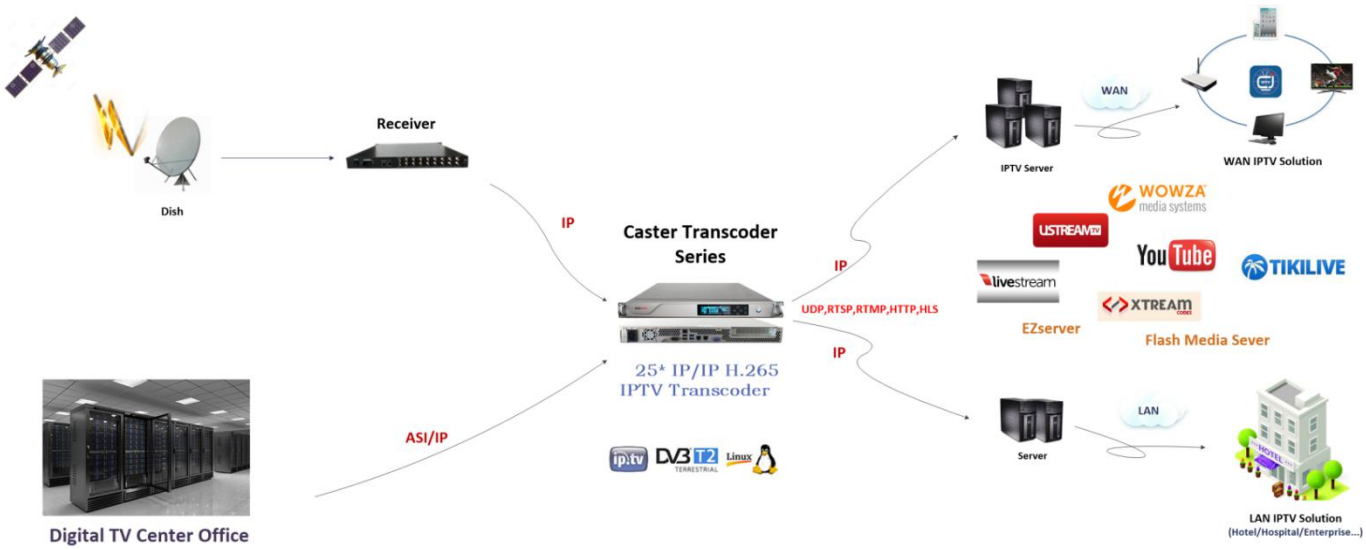
- High density 1-RU platform can transcode up to 25*SD or 12*720p or 5*Full HD (Max. 8 channels) profiles
- Optimized for 800 Kbps for SD, 1.5Mbps for HD 720p, 3Mbps for HD 1080p
- Creates simultaneous High,Medium, and Low bitrate streams (profiles) of MultiScreen IPTV application
- H.265/HEVC Main Profiles Level 5.1
- Baseline, main profile & high profile with variable GOP
- Picture-in-picture (PIP) operation supported
- HD-to-SD down, SD-to-HD up conversion
- GbE IP outputs –UDP, RTSP, RTMP,Pull/Push HTTP, HTTP Live Smooth(HLS), FTP M3u8 playlist files
- Flexible GOP structures with Reference-frame and B-frame edit
- Frame rate down- and up-conversion
- High quality pre-processing including filtering, Deinterlacing, cross scaling, image insertion
- Support for Variable Bit Rate (VBR) encoding maximizes adaptive streaming video quality and bandwidth efficiency
- PCR correction to accurately correct several PCR of the input data
- Based on embedded Ubuntu Linux via flashdisk
- DVB Subtitle and Logo insertion
- High contrast LCD display
- Parameter template settings and imports
- Real time preview of input video stream in encoding and parameter configuration
- The preview interface adds color control adjustment (CCATM) function (video output brightness, contrast, saturation, aberration).
- 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.
- Low power consumption and high reliability with MTBF(Mean Time Between Failure) ≦87600 Hours
- Real-time dynamic monitoring of each transcoding channel operation
- 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
- Upgrade H.264 to HEVC Video headend solutions
- VOD archives from live streams





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TECHNICAL SPECIFICATIONS

Inputs and Outputs

	Two Gig Ethernet Ports,
Connector	RJ45 100/1000M - Auto Negot
	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)

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	2-30fps
Screen Ratio	4:3, 16:9
Option Multiple concurrent outputs per each encoding input	
Video codec	**H.265/ HEVC Main profile Level 4.1&5.1** **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

MPEG-2 Input	H.265 Output	Max.Channels
SD/480i inputs @4 Mbps	SD @800kbps, 480p	25
720p inputs @10 Mbps	720p @2Mbps	12-14
1080i/p inputs @18 Mbps	1080p @ 4Mbps	5-6 (Max.8channels)
4k/H.264 @20Mbps	4k @ 12Mbps	1-2

Resolution	3840x2160p(UHD) 1920x1080p,1280x720p 720x576p,720x480p,640x480p,480x360p, Configurable

Audio Processing

Numbers of encoding (Provides up to 8 audio channels for customization)	2 audio Channels per one video source
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

Local interface	Front panel keypad and LCD
Configuration	Web browser interface
Port	RJ45, 10/100/1000M Base-T
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	483mm (W) x 534mm (L) x 45mm (H)
Weight	11kg (24lbs)

ORDERING INFORMATION

Product category	Product Model	Detail Description	Application
Related Products	25Channel H.264 IPTV transcoder **Caster-t322**	2*GbE IP input/output, 25*SD or 12*HD or 5*FullHD transcoder per Chassis 1RU, UDP/RTSP/HTTP/HLS/ RTMP, H.264	-Terrestrial TV system -IPTV -Upgrade H.264 to H.265 -Deliver video to Ethernet
	200Channel H.264 IPTV Transcoder **Caster-t328**	2*GbE IP input/output, 25*SD or 12*HD or 5*FullHD transcoder per blade, Up to 8 hot plug blades, H.264(H.265 upgrade software license), UDP/RTSP/HTTP/HLS/RTMP	-Cable TV system -IPTV -Wowza Server RTMP
	200Channel H.265 IPTV Transcoder **Anystream428**	2*GbE IP input/output, 25*SD or 12*HD or 5*FullHD transcoder per blade,Up to 8 hot plug blades,h.264/h.265 encoding, UDP/RTSP/ HTTP/HLS/RTMP	-IPTV/OTT -Multi-screen Deliver -Lowest bitrate -Terrestrial/Cable TV
Companion Products	PREMIUM 8* DVB-S2 FTA IRD **IRD1218Plus**	8* DVB-C or FTA/BISS DVB-S2 inputs (QPSK/8PSK/16APSK/ 32APSK demoduation); 14MPTS/240+SPTS/2ASIout; MPEG-TS over UDP/RTP; Multiplexer/Scrambling; 5 years Warranty	-Large and Medium Cable TV operator -IPTV/OTT headend -Content providers -DTH -Carrier-grade
	PREMIUM 8* DVB-S2 CI IRD **IRD1380**	8*DVB-C/S2/T2/ATSC/ISDBT/8 CI input. 9*MPTS/128*SPTS /9*ASI out; MPEG-TS over UDP/RTP; Multiplexer; 5 Years Warranty	

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