

Anystream415H

15*IP/IP H.265 IPTV Transcoder

DIBVISION | DIBSYS



4K
ULTRA HD

H.265
HEVC



Dual power supply



Anystream415H, a cost-effective appliance for live content transcoding, it provides high-density and scalability for traditional broadcast over cable, IPTV, DTH and DTTV, as well as for multiscreen applications. It converting providers H.264, MPEG2 and HEVC (H.265) contents to each other.

For satellite, terrestrial, cable and multiscreen applications, the **Anystream415H** 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 or HEVC), resolution (HD, SD and low resolution) and frame rate (up to 60 fps). 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. **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.

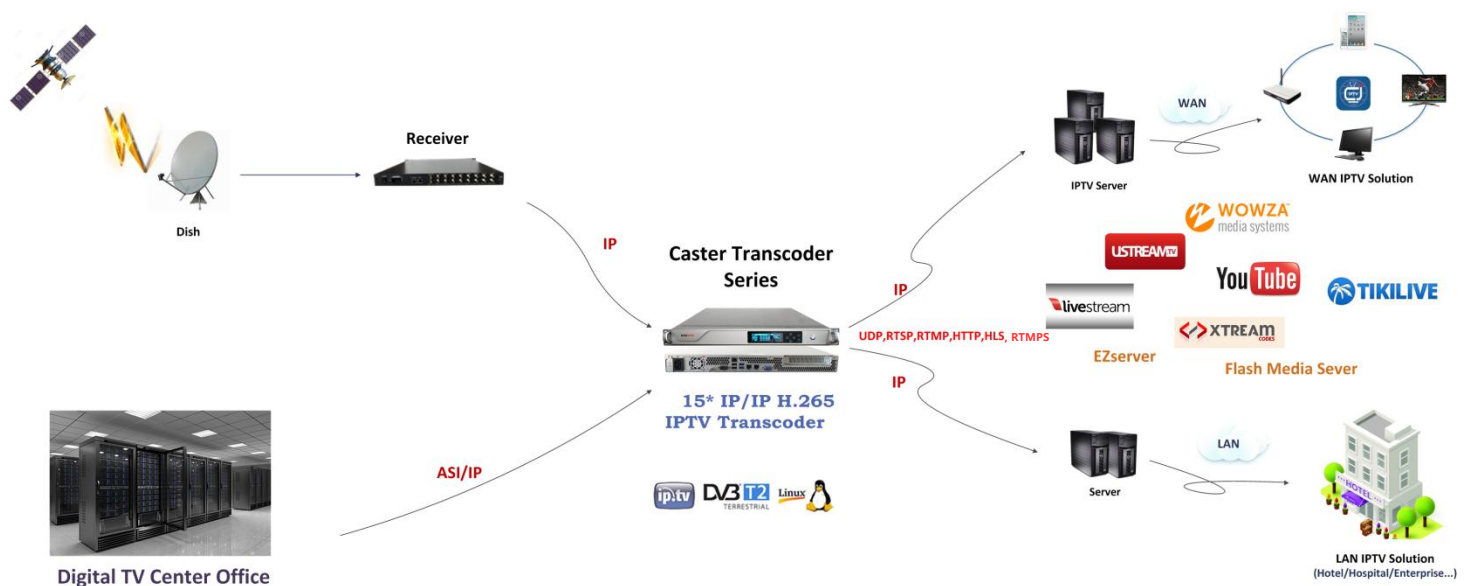
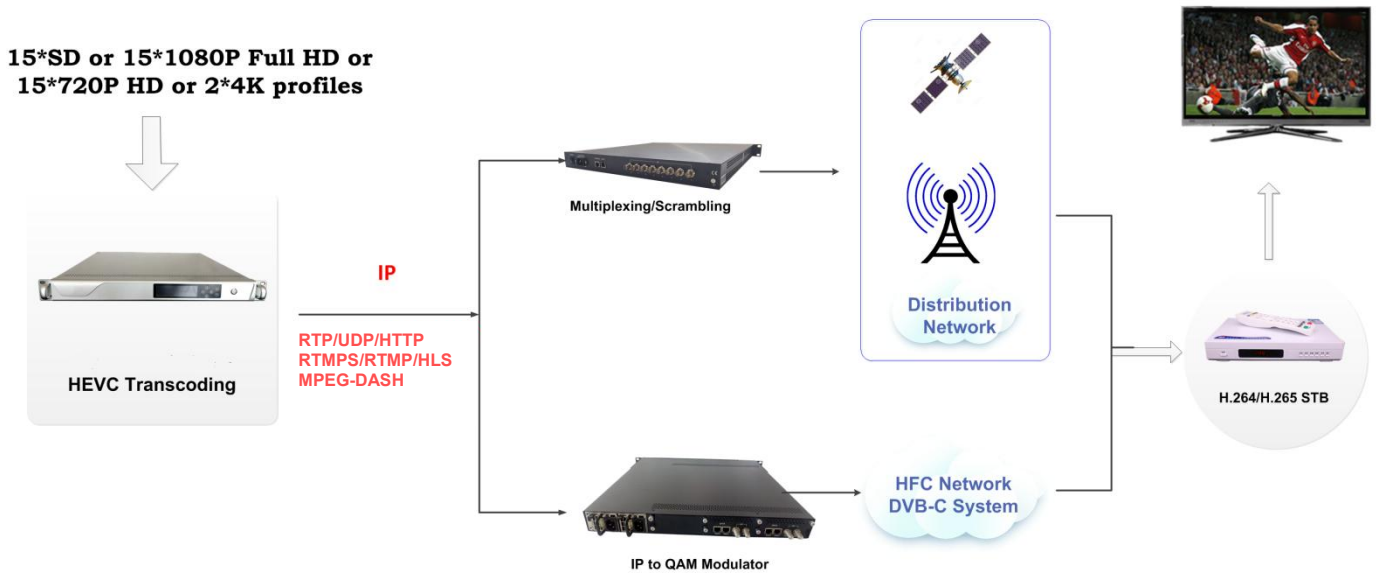
Anystream415H provides the high bandwidth efficiency on the market, and the best video quality to end users. Purpose on huge number of transcoded channels deployment fast, our R & D team also provides transcoding capable of 200 channels with high density, High reliability and Cost effective video headend distribution solution.

Features

- High density 1-RU platform can transcode up to 15*SD or 15*720p or 15*Full HD or 2* 4K profiles
- 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
- 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
- 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
- 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
- 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
- passed the EU CE certification

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



TECHNICAL SPECIFICATIONS

Inputs and Outputs

Connector	Two Gig Ethernet Ports, LAN1, LAN2 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)/HLS encrypted SRT HTTPS (input) RTMPS (output)
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Pre-processing

LOGO insertion Subtitle Overlay Deinterlace PID Configuration	Option Static or roll subtitle, up to 3 way default, Close, Linear, Blend, Bob, Yadif 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 Frame rate Screen Ratio	VBR,CBR,ABR,NearCBR 2-30fps 4:3, 16:9
Option Video codec	Multiple concurrent outputs per each encoding input 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 B-Frame Reference Frame Key frame rate Video Bitrate Video Delay Scale Fast Mode Resolution	1000-1500ms 0-5 1-6 1-18 32kbps to 10Mbps 0-1000ms Ordinary, Auto Padding intelligent Scale Quality Priority, Balanced, Speed Priority 3840x2160p(UHD) 1920x1080p/1080i,1280x720p 720x576p, 720x480p, 640x480p, 480x360p, Configurable

Resolution	Max.channels output
H.265 input	H.265 output
720P25 @2 Mbps	15
1080P25 @4 Mbps	15
4KP25 @10 Mbps	2

Audio Processing

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

Management

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

Cooling Power Supply Operation temperature Storage temperature Power Consumption Dimensions Weight	Front to rear airflow 110-240 VAC 0~50°C (32 ~122°F) -40~70°C (-40~158°F) 200W 483mm (W) x 534mm (L) x 45mm (H) 11kg (24lbs)
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