

# Anystream310/410

Carrier-grade Full HD

HEVC Live Transcoder/Encoder

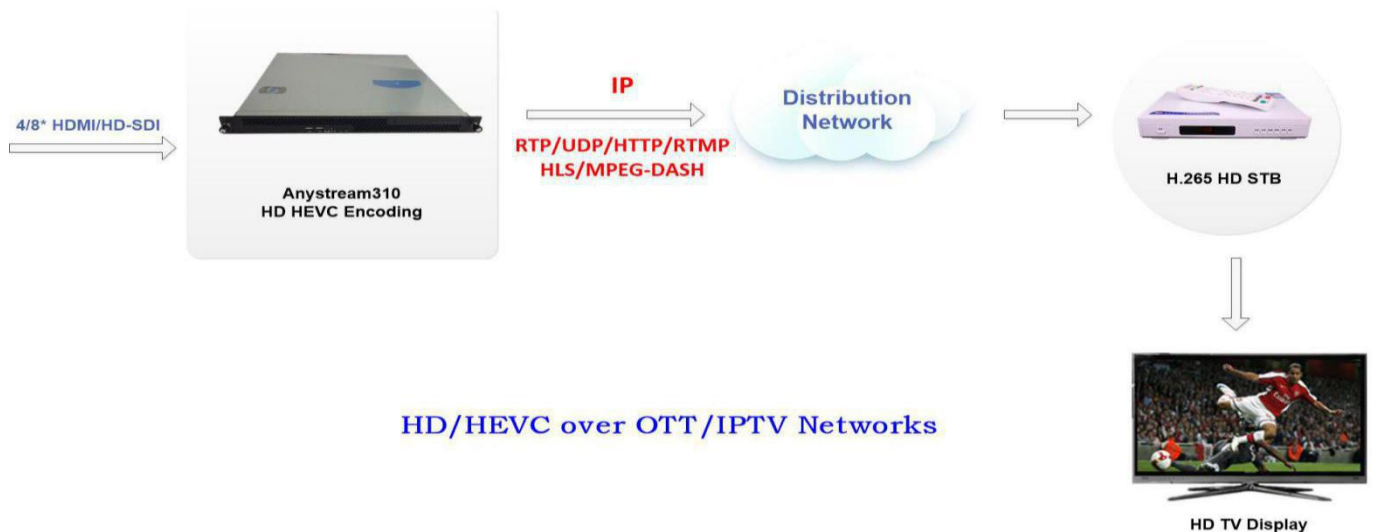


**Anystream410** which is a perfect carrier-grade video processing solution for next generation Broadcast, OTT, Mobile TV Head-End. Typical Real Time Transcodes/Encoders Benchmarks Include 4/8\* Full HD Streams.

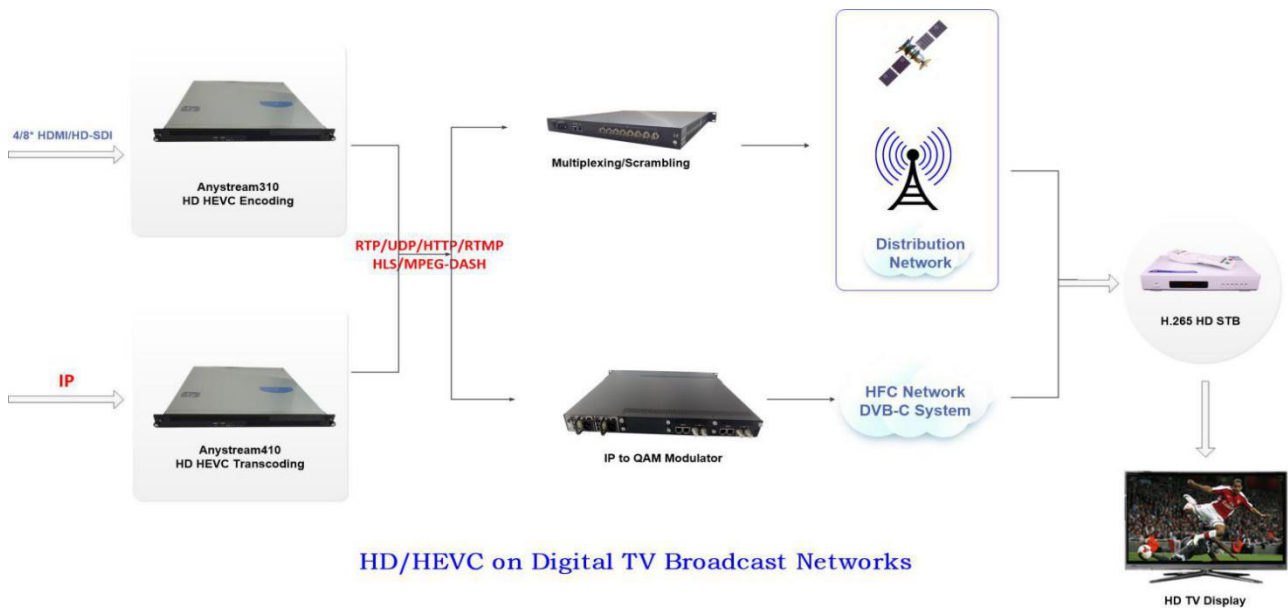
**Anystream410** supports Apple® HTTP Live Streaming, RTMP, Microsoft® Smooth Streaming, HTTP, RTSP, UDP and Works Well with Wowza and Ezserver, Nginx servers, Xstream-codes. Ideal Device for Creating High, Medium and Low Bit Rate Streams to deliver video to any android and IOS devices at superior quality. Designed for Cable, satellite and terrestrial, OTT, Mobile, Web, IPTV content distribution applications requiring Digital Video Broadcasting. The use of the HEVC Transcoder and Encoder enables an operator to deliver content of a given quality at a significantly reduced bandwidth or to deliver significantly higher quality video at a given bandwidth.

## Features

- Telco Quality, Highly Reliable, High density 1-RU platform can process up to 4/8\*1080P Full HD profiles
- Achieve a compression gain of 40-60% over H.264/AVC in subjective quality
- Support Multi-screen services and Generate High, Medium, Low Bitrates in different IP protocol for IOS, Android devices, Flash. Etc
- Creates simultaneous High, Medium, and Low bitrate streams (profiles)
- Pristine video quality and and motion fluency
- Full HD, MPEG/H.264-to- H.264/HEVC(H.265) any to any transcoding
- Down/UP Scale converter ability to convert all HD services to SD or SD to HD
- Picture-in-picture (PIP) operation supported
- Support RTMP, HTTP Live Streaming, Pull/Push HTTP/RTSP, RTMP, UDP, SDP
- Produce pristine video quality over the lowest bitrates
- Dual Gigabit Ethernet LAN ports provide additional performance and redundancy. Seperate ethernet ports for service streaming and out-of-band management
- Compatible with external MPEG-DASH packager for OTT delivery (option)
- 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.
- Supports logo insertion and text overlay on outputs
- Supports AES encryption
- Designed for 24\*7\*365 uninterrupted working
- Standards-compliant and field-proven implementation
- Easy to Web management



HD/HEVC over OTT/IPTV Networks



HD/HEVC on Digital TV Broadcast Networks

## TECHNICAL SPECIFICATIONS

### Input

TS/IP Input:	Gigabit Ethernet (up to 2 ports), RJ45 RTMP/RTSP/HTTP/HLS/UDP/RTP (multicast, unicast), MPEG-2 TS (SPTS/MPTS)
Video decoding:	MPEG-2/MPEG-4/ AVC
Audio decoding:	MPEG-1 Layer II, AAC-LC, AAC-HE v1/v2, Dolby Digital, Dolby Digital+
(Only for transcoding) – Model:	<b>Anystream410</b>
Uncompressed digital audio/video	4 or 8 Ports HD/SD-SDI(SMPTE 292M), Audio embedded in SDI 4 or 8 Ports HDMI, Audio embedded
(Only for encoding) - Model:	<b>Anystream310</b>

### Output

Bit rate mode:	Dual GbE interfaces HD 1080 x (1920, 1440, 1280, 960), 720 x (1280, 960, 640) SD NTSC 480 x (720, 704, 640, 544, 528, 480, 352), PAL 576 x (720, 704, 544, 528, 480, 352)
Bit rate mode:	VBR, CBR SPTS (IP streaming) Content publishing with Push/Pull modes MPEG-2 TS Unicast and Multicast TS/RTP/UDP streaming Adobe Flash / RTMP Apple HTTP Live streaming/HLS Microsoft Smooth streaming MPEG-DASH(Optional) IGMP V2 & V3 IPV4 support

### Video encoding

Codec Format:	Smart de-interlacing Picture resizing Frame rate conversion Logo/graphics overlays Crawling text H.264/AVC, H.265/HEVC HEVC High Profile; HEVC Main profile H.264 Baseline Profile; H.264 Main Profile; H.264 High Profile
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Video Bitrate:	32k - 20Mbps
Number of channels:	4 or 8 channels (1080p@HEVC)

### Pre-processing

Image setting	Video adjustments (Brightness, contrast, Saturation, Hue)
Bit Depth	8/10-bit
Frame rate	from 2fps to 30fps
Subtitle Overlay	Static or roll subtitle, up to 3 way (optional)
PID Configuration	Depending on the configuration, it forwards selected programs via IP datacasting; PAT, PMT, video PID, audio PID(s) and PCR information are transmitted.

### Audio encoding

Bitrate:	8kbps~384kbps MPEG-1 Layer II (ISO/IEC 11172-3) Since 64 kbps to 384 kbps MPEG-4 AAC (LC/HEV1, HE v2) Since 24 kbps to 384kbps (AAC) Dolby Digital (AC3) ,Dolby Digital Plus (EAC3) passthrough
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sampling rate:	8KHZ to 48KHZ
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Number of HEVC transcoding chs@good quality:	Resolutions: 1920x1080p Bitrates: 1500Kbps Channels: 4/8 In the premise of Ensuring quality, the Proposed customer parameters and running the channel number, the user will vary based on the actual operation of the user
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### Environment

Power Supply:	AC 100 ~ 240V
Power Consumption:	600W
Dimensions:	444 (L) x 443 (W) x 44.5mm (H) (1RU)