Caster-T322Plus

15*IP/IP H.264 IPTV Transcoder



Caster-T322plus, 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, and MPEG2 contents to each other, and can be configured to transcode up to 15 PIDs video in a 1RU form factor, along with up to two audio PIDs per video PID.

For satellite, terrestrial, cable and multiscreen applications, the **Caster-T322plus** has become an ideal solution for operator to provide high quality video transcoding. 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.

Caster-T322plus 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.

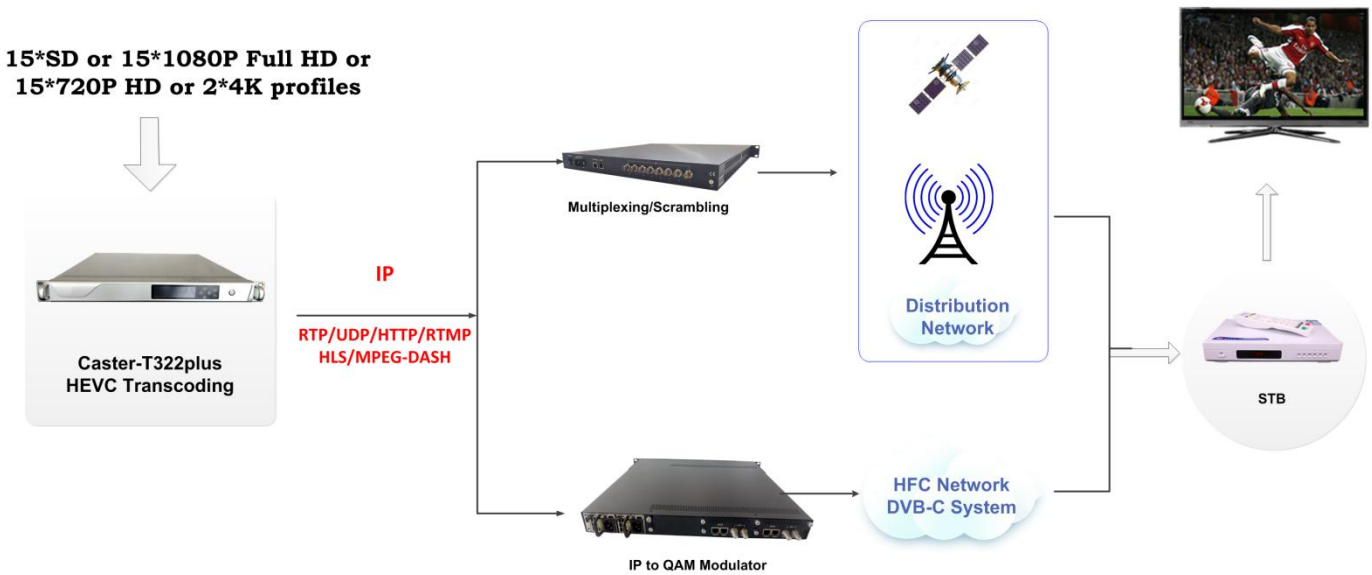
Features

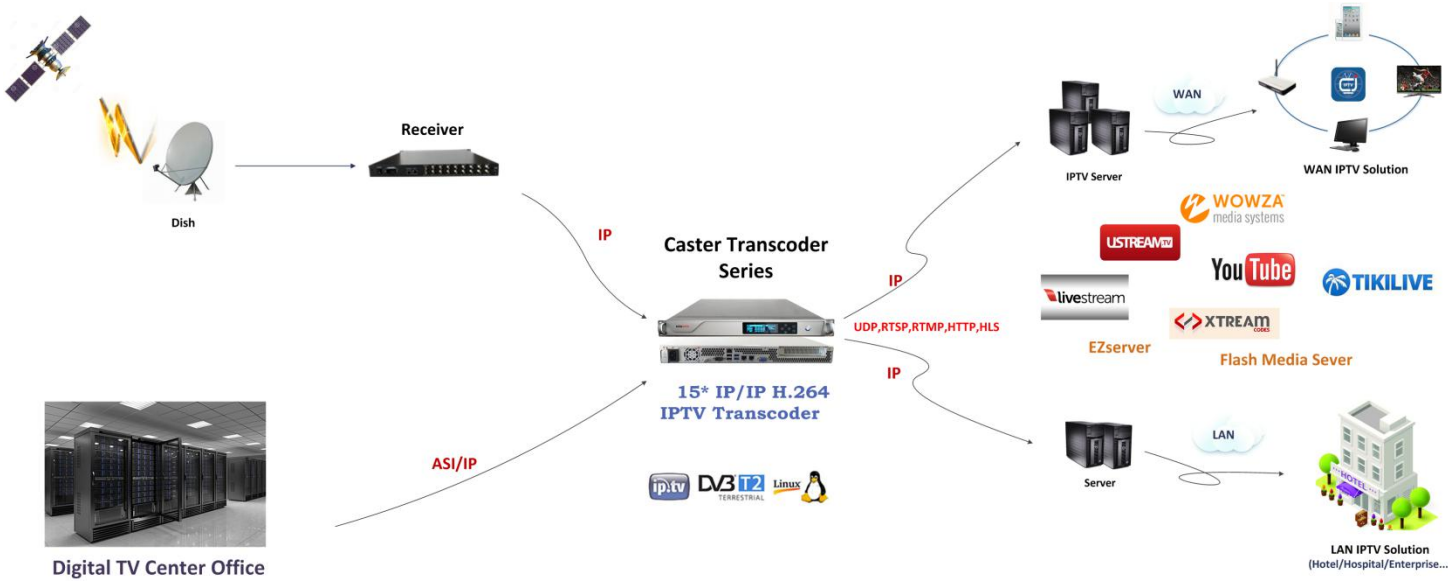
- High density 1-RU platform can transcode up to 15*SD or 15*720p or 15*Full HD or 2* 4K profiles
- Creates simultaneous High,Medium, and Low bitrate streams (profiles) of MultiScreen IPTV application
- Baseline, main profile & high profile with variable GOP
- Picture-in-picture (PIP) operation supported
- 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
- Compatible with external MPEG-DASH packager for OTT delivery (option)
- 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
- 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
- Real-time dynamic monitoring of each transcoding channel operation
- Support multiple devices unified management
- 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





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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.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,1280x720p
	720x576p, 720x480p, 640x480p, 480x360p, Configurable

Resolution	Max.channels output/Frame rate		
H.264	**25fps**	**30fps**	**60fps**
720*480 @1.5 Mbps	15	15	15
1280*720 @3 Mbps	15	15	15
1920*1080 @5 Mbps	15	12	10
4K @15Mbps	2	2	/

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

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)

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