

Caster-T311

Portable Network Video HD Encoder



Caster-T311 is combined with years of developing experience in video encoders of network. It is an portable encoder comply with MPEG-4 AVC encoding and broadcast level of High Profile 5.1. Also it adopts embedded operating system, guarantee the stability of the work, support selectable HD-SDI/HDMI inputs adaptive, Provides a high performance-to-price ratio for live, easy operate solution for IPTV.

Caster-T311 can push/pull H.264, MPEG-4, MPEG-2 encoding video streams deliver to various servers, such as Adobe Flash Server, Wowza Server, Windows Media Server, Apples HTTP Live Streaming, and some other servers base on UDP/RTSP/RTMP/HTTP/RTP/HLS protocols.

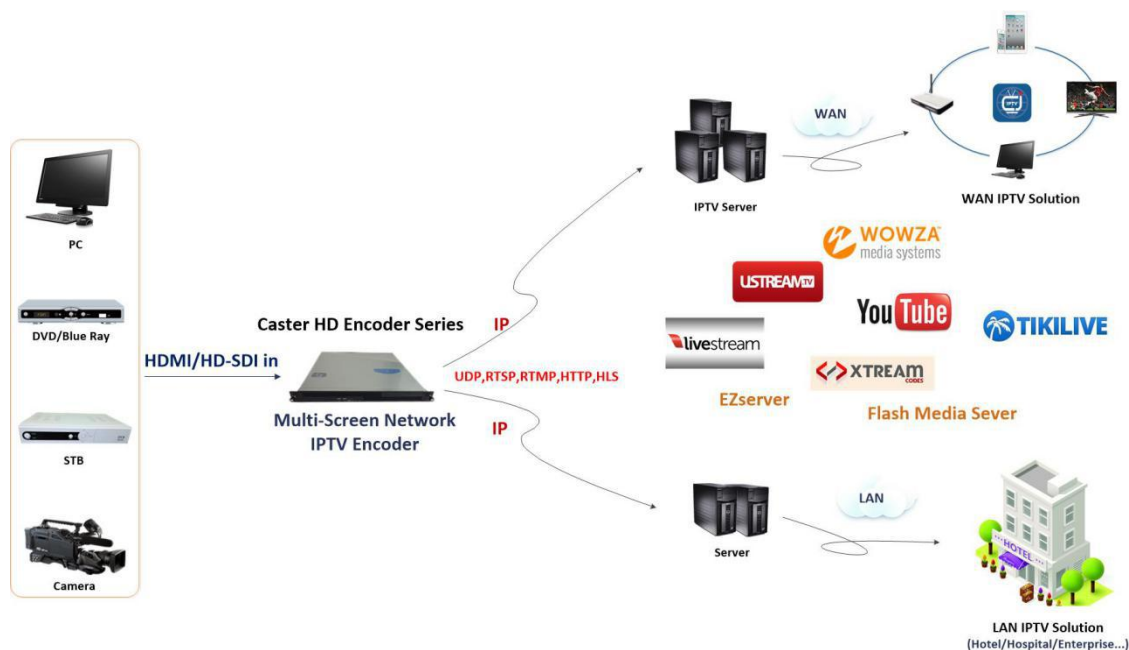
As electronic products have being intelligitized today, we also strive for a easier operation device, and give customer a wonderful user experience. The new version of Caster-T311 has colored appearance, LCD touch screen, making the small box cool enough besides its power performance.

Features

- Optional touch screen function
- Optimized for 1 Mbps for 480i/576i, 2 Mbps for HD 720p, and 4 Mbps for HD 1080p.
- Single channel HDMI or HD-SDI per chassis
- External +12V power source, easy to carry and suitable for business trip
- Creates simultaneous High, Medium, and Low bitrate streams (profiles)
- Multiple output streams per input service to support Broadcast, VOD, IPTV and OTT, mobile/ web, Set top box applications
- MPEG-2/MPEG-4 to any resolution encoding
- Multiple Codec, Protocol, Bitrate, Resolution, Profile per channel
- GbE IP outputs – UDP, RTSP, RTMP, HTTP, HTTP Live Smooth(HLS), FTP M3u8 playlist files
- Picture-in-picture (PIP) operation supported
- Audio support: AAC, MPEG, MP3, AMR or Dolby Digital AC-3 passthrough
- High quality pre-processing including filtering, Deinterlacing, cross scaling, image insertion
- Based on embedded Ubuntu Linux
- Selectable any resolution from QSIF to 1080p
- Easy-to-Use System Management
- Real time and lower delay IP network video transmission: <800ms
- Support words and icons dynamic stacking, output with pictures stacked, and no signal automatically shimmed function.
- 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
- Designed for 24*7*365 uninterrupted working
- Web Management

Main Application

- Digital broadcast and Multi-screen headend
- IPTV, Over-the-air TV distance learning
- Mobile, Broadcast, Internet TV/Web TV
- VOD content encoding
- Global eyes IP video camera transcoding



TECHNICAL SPECIFICATIONS

Input

Baseband input:	1x HDMI 1x HD-SDI option
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Output

IP Output type	Two Gig Ethernet Ports
Streaming format	MPEG-2/H.264/H.263/MPEG-4 SP/MPEG-4 ASP; MPEG-1 Layer II, AAC, AC3, AMR, WMA, MP3 TS Over UDP/RTP/HTTP 3GP Over RTP FLV Over HTTP/RTMP HTTP Live streaming Apple HLS (m3u8)

File Output

Encoding	3GPP/3GPP2/WMV/FLV/TS File output support timing and capacitive record
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Pre-processing

Image setting	Video adjustments (Brightness, contrast, Saturation, Hue)
Frame rate	from 2fps to 60fps
Aspect ratio	4:3 and 16:9, WSS control
Image insertion	LOGO insertion
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.

Video encoding

Bitrate mode	VBR, CBR
Resolutions	80x64, 176x120, 128x96 (4:3), 176x128, 144x80, 176x144, 144x140, 220x176, 160x90 (16:9), 240x176, 320x240, 352x288, 400x300, 480x360, 720x576, 854x480(16:9), 1280x720p, 1920x1080p

Max channels per RU:

Signal Input	HDMI or HD-SDI
H.264Out	SD in 1Mbps; 720p in 2 Mbps; 1080p in 4 Mbps

Channels	Up to 3 streams; Up to 2 streams; Up to 1 streams
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Notes:	Those information as reference, For details contact us Up to multiple concurrent
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Video codec	H.263 Profile0, Levels 10, 20, 30 MPEG-4 SP, Levels 0, 0b, 1, 2, 3 H.264 Baseline Levels 1,1b, 2, 3 H.264 Main Profile/High Profile 3.0- 5.1 MPEG-2 MP@ML 4:2:0
GOP Size	I-Frame Time Interval; B-Frame Number; Reference Frame
Video Bitrate	32kbps to 6Mbps
Enhancement filter	Deinterlacing; MABFF CABAC; Noise reduction; Sharpening; Visual Optimizing

Audio encoding

Audio encoding	LC-AAC, HE-AAC and HE-AACv2 (including Parametric Stereo) MPEG-1 Layer, AC3, MP3, AMR
Sample rate	32khz, 44.1khz, 48khz
Data rate	8kbps to 384kbps

Environment

Power Supply	+12 VAC
Operation temperature	0~50°C (32 ~122°F)
Storage temperature	-40~70°C (-40~158°F)
Power Consumption	50W
Dimensions	144mm×208mm×44mm
Weight	3kg