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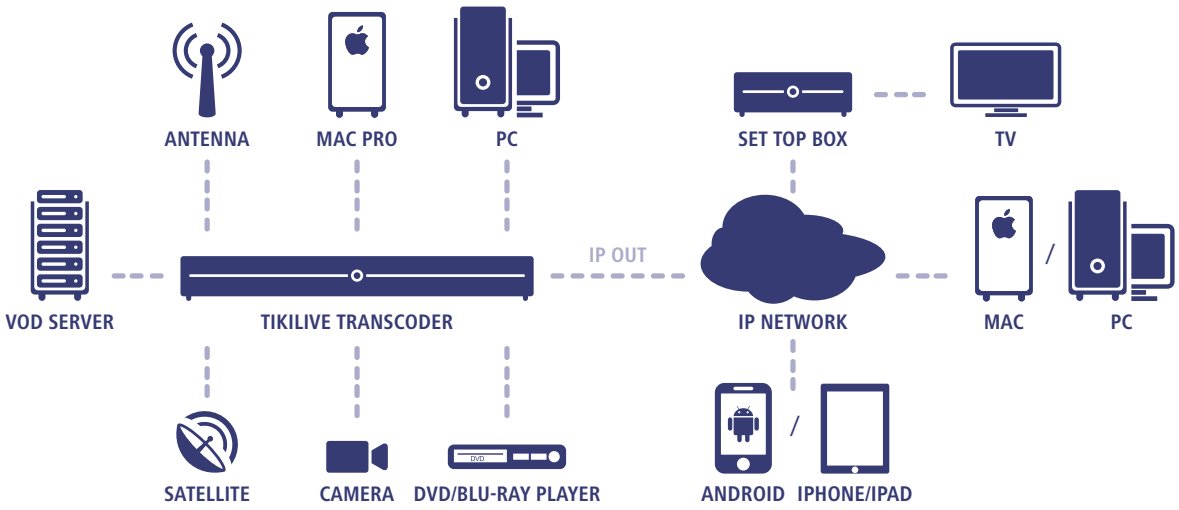
TIKILIVE TRANSCODER
IP / SATELLITE / ANTENNA TRANSCODER

The TikiLIVE Transcoder is a real time multichannel streamer and transcoder designed to deliver HD broadcast streams. It has been designed to receive satellite feeds and with an integrated RF receiver you can also source terrestrial RF signals and transform them into streams that are best suited for multiple customer types. This is presented with an easy to use GUI for full configuration of each stream and it can report its status to remote network operations.

The transcoder is an MPEG-2 to/from H.264 transcoder or MPEG-2/4 to MPEG-2/4 scaler. The resulting output can be sent to an IP network or to another receiver for point to point broadcasting. These streams can be viewed online, on TVs connected to IP set top boxes, and mobile devices such as iPhone/iPad, Android, or Blackberry.



The TikiLIVE Transcoder receives the feeds, de-multiplexes them and then streams these feeds using UDP, RTP or HTTP as either multicast or unicast streams.

The system transcodes streams into H.264 format up to a maximum bitrate of 12 Mbps per stream, and MPEG-2 streams up to a maximum of 15 Mbps.

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EYEPARTNER, INC.
5409 Overseas Hwy. | Number 219 | Marathon, Florida 33050 | Tel: 305.289.4557 | Fax: 509.756.2423

EYEPARTNER S.R.L.
Bulevardul Primaverii | Nr. 64 – 66 | Iasi, 700172, Romania | Tel: 0040.332.414752

Each stream can be received, transcoded, time delayed, and forwarded at the requested time. Programs are typically forwarded (pushed) via UDP or RTP but can also be forwarded on request (pulled) using HTTP or HTTP Live streaming. The TikiLIVE Transcoder supports adaptive and HTTP streaming and works with Adobe Flash and Wowza servers.

Features

- Input/Output in MPEG-2 or H.264
- Supports HTTP live adaptive streaming protocol for output to mobile devices
- Capable of near real time FTP output of segmented TS streams with I-Frame boundaries
- Will work as a PAL to NTSC converter
- Transcoding bitrates: 64Kbps-12Mbps
- Resolutions: SQVGA, QCIF, QVGA, SIF, VGA, or any custom size up to 1080i
- Simultaneous demodulation, transcoding, encapsulation, and optional time delay
- Transcodes up to 15 SD streams, six 720p HD streams, or three 1080i streams from MPEG-2 to H.264 or vice-versa
- SNMP support
- Works with Wowza® and Adobe® Flash® servers
- Compatible with major brands of H.264 decoders
- Audio support: AAC, MPEG-2 audio, or Dolby Digital® AC-3 passthrough
- Settings remembered through power cycles
- Based on embedded Linux® (via flashdisk)

Benchmarks

MPEG-2 In

SD Input @ 6Mbps
480i @ 6Mbps
HD Inputs @ 12Mbps
720p
720p 60fps
1080i

H.264 Out

SD out at 1.5 Mbps
Up to 15 streams
HD outputs at 6Mbps
480i -Up to 15 streams
Up to 4 streams
Up to 3 streams

H.264 In

SD Input
480i @ 3Mbps
HD Inputs
720p @ 6Mbps
1080i @ 7Mpbs
1080p @ TBD

MPEG-2 Out

SD MPEG-2 out at 6Mbps
Up to 15 streams
HD Outputs
720p @ 12Mbps - up to 6 streams
1080i @ 14Mbps - up to 3 streams
1080p @ TBD

*All tests performed on Intel i7-980x Processor @ 3.3 GHz with 3GB of RAM. HD H.264 to MPEG-2: 3 to 6 streams depending on amount of motion in content.

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Specifications

IP Output

Ethernet:	Up to 2 x 1 GigE
Protocols:	UDP, RTP, HTTP, HTTP Live, FTP
Type:	IP-multicast, IP-unicast

Common Supported Resolutions (Input and Output)

1920 x 1080	720 x 480	480 x 480
1280 x 720	704 x 480	480 x 320
720 x 576	640 x 480	320 x 240

*Also supports custom resolutions not listed above.

8VSD (SMPTE 310M) Input

Modulation:	8VSB (SMPTE 310M)
Inputs:	RF from antenna
Frequency range:	54-860 MHz
Max raw throughput:	200Mbps

DVB-S/S2 Input

Modulation:	DVB-S, S-2
Inputs:	L-Band
Symbol rate:	1 to 45 MS/s
Frequency range:	950 to 2150 MHz 70 to 1002 MHz
LNB control:	22 kHz, power H/V
Spectral inversion:	ON/OFF
Max raw:	200 mbps

DVB-T Input

Modulation:	DVB-T
Inputs:	RF from antenna
Frequency range:	54 to 860 MHz
Max raw:	200 mbps

DVB-ASI

Input/Output:	200 Mbps per port

Output Bit Rates

H.264:	64 Kbps to 12 Mbps
MPEG-2:	64 Kbps to 15 Mbps

Administration

Access:	Web interface, ssh interface
SNMP:	Monitoring and alerts

Physical & Power

Size:	19” rack mounted, 3 RU
Voltage:	85-265 VAC/50-60Hz, 50
Temperature:	0°C to 50°C
Humidity:	5% to 95% non-condensing
Conformities:	UL, CSA, CE, RoHS
Weight:	30 lbs. (13.6 kg)

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