



## Sigma Transcoder Live

Is high quality video, audio software compression solution designed to serve many streaming media services such as OTT adaptive streaming, iptv, cable ...

### Why should you use our Service?



#### Reduced CAPEX and OPEX

Cost savings CAPEX & OPEX when integrating sigma ott system using software deployed based on microservice model



#### Redundancy Feature

Support Active-Standby System, input/output redundancy



#### High Quality Video

High encoding compression quality video and audio from software base resolution

### Key Feature

- **High Video Quality**
- **Channel branding - logo insertion**
- **Premium Encoding Format**
- **Flexible Redundancy N+M, N+1**
- **Deliver content with powerful workflows, from broadcast to OTT, or a hybrid of both..**
- **Closed captioning, DVB subtitle, teletext**
- **Resolution: Mobile to UHD, 4K HDR**
- **Powerful user interface, management system**



## Input

<p><b>Compressed Input</b></p>	<p>Type: UDP MPEG-2 TS (MPTS &amp; SPTS) via unicast or multicast (IGMP v2 and v3 ), RTMP (H.264 HD, ACC)</p> <p>Video Codecs: MPEG-2, H.264, HEVC. 4:2:0 and 4:2:2 8/10 bits</p> <p>Resolution and frame rate: Up to 2160p @ 50 / 59.94 / 60 fps</p> <p>Audio Codecs: MPEG-1 Layer II, Dolby Digital (AC-3), Dolby Digital Plus (E-AC3), AAC, Dolby AC4<sup>(1)</sup></p> <p>Bit rate: SD/HD up to 50 Mbps, UHD up to 80 Mbps</p> <p>scanning methods: Interlaced and progressive</p>
<p><b>Redundancy</b></p>	<p>Auto switch to backup input when primary input fail</p>

## Video Pre-Processing

<p><b>Out of band</b></p>	<p>ID3 metadata, SCTE35 pass-through</p>
<p><b>Image Settings</b></p>	<p>Brightness, Contrast, Saturation, Hue, Gamma, Temperature</p>
<p><b>Image Overlay</b></p>	<p>Image insertion on input loss (blackout)</p> <p>logo insertion</p>
<p><b>Filter</b></p>	<p>Video and Audio Enhancement Filters</p>

## Video Encoding

<b>Video Codec</b>	MPEG-2 Main H.264 Baseline/Main/High profile HEVC Main 10, HEVC Main Profile HDR: HDR10, HLG10, PQ10 <sup>(1)</sup>
<b>Rate control</b>	VBR, CBR, Constant Video Quality
<b>Data Rate</b>	Progressive: from QCIF to 4K, up to 60 fps. 4K requires HEVC. Interlaced: 480i, 576i, 720i and 1080i
<b>Data rate</b>	From 10 kbps to 30 Mbps <sup>(2)</sup>

## Audio Encoding

<b>Audio Codec</b>	AAC/AAC-LC/HE-AAC, Upgradable to AC-3, E-AC-3, Dolby Digital 2.0, 5.1, Dolby AC4 <sup>(1)</sup>
<b>Data rate</b>	From 4.75 kbps to 320 kbps
<b>Audio Channel</b>	Mono, stereo, multichannel
<b>loudness Control</b>	Support EBU R128 or ATSC A/85 Standard

## Output

<b>Output Format</b>	UDP MPEG-TS Multicast
<b>Redundancy</b>	Support redundant output
<b>Low latency</b>	Support Integrate with Sigma Packager ultra low latency mode

## Monitor, Control & Management

<b>High Availability</b>	N+M failover (active-standby at least N+1)
<b>Control</b>	SNMP (MIB v2c) with remote SNMP supervisor (alarms & traps) REST API (documented through Open API v3.0) JSON Configuration export/import
<b>Monitoring</b>	Input/output monitoring Alert Service, failover trigger
<b>Interface</b>	Web GUI management Interface
<b>Maintenance</b>	Manual / Schedule

(1) option can be upgrade in the next version