

## 832202 OTT Multiscreen Adaptive Transcoder Live + VOD



OTT Multiscreen Adaptive Transcoder can deliver live content (IPTV channels) and on demand content (multimedia files) to any device (Smartphones, Tablets, STBs, PCs, SmartTVs...) through any kind of network.

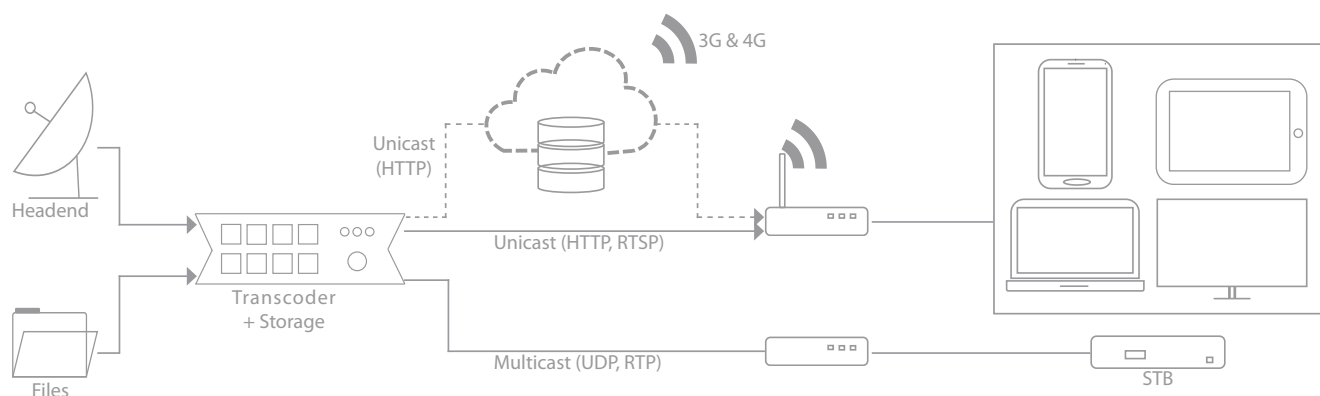
OTT Multiscreen Adaptive Transcoder LIVE+VOD ref. 832202

“Buffering is old fashioned”. Thanks to the technology used by this system the start of playing will be immediately.

“Maximize the play quality”. Using the new streaming adaptive protocols, the video quality can be adecuated to the connection bandwidth between final user and server offering the maximun available quality.

“Green and powerful”. Video encoding full optimized for the hardware of mobile devices which means low battery consumption.

“Clean Mobile”. Installation of new applications not needed, the playing will be done by the mobile device own browser.



# 832202 OTT Multiscreen Adaptive Transcoder Live + VOD

## TECHNICAL SPECIFICATION

### SERVICE

832202 OTT Multiscreen Adaptive Transcoder LIVE+VOD

### INPUT

#### Encapsulated - Protocols

HLS - HTTP Live Streaming (Apple), RTMP - Real Time Messaging Protocol, RTMPT - Real Time Messaging Protocol over HTTP, RTP - Real-time Transport Protocol, UDP - User Datagram Protocol, UDP Lite - User Datagram Protocol Lite Version

#### Containers

MPEG Transport Stream (ts), MPEG Program Stream (ps), MPEG-4 Part 14 (mp4), Matroska (mkv), Audio Video Interleave (avi), Flash Video (flv), OGG (ogg, ogv), WEBM (webm), Material eXchange Format (mxf) Advanced Systems Format (asf), Third Generation Partnership Project (3gp), YUV (yuv), Versioned Object Base (vob) - DVD

#### Video codecs

H.222/H.262 - MPEG-2, H.263 - Sorenson Spark, H.263 v2, H.263 v3 - MPEG-4 Part 2, H.263 v3 - MPEG-4 Visual, H.263 v3 - Divx, H.264 - MPEG-4 AVC (Advanced Video Coding), H.265 - MPEG-H Part 2 HEVC (High Efficiency Video Coding), VP7, VP8, VP9, Theora, RAW

#### Audio codecs

MPEG-1 Audio Layer II (mp2), MPEG-2 Audio Layer III (mp3), MPEG-2 Part 7 Advanced Audio Coding (AAC), MPEG-4 Part 3 Advanced Audio Coding (LC-AAC & HE-AAC), Free Lossless Audio Codec (flac) Vorbis, Opus, Pulse-code modulation (pcm)

#### Subtitles codecs

MPEG-4 Part 17 Streaming text format (MOV Text), DVB-Subtitles, DVB-Teletext, DVD-Subtitles, SubRip (SRT), SubStation Alpha (SSA/ASS), TrueType (TTF), Real Text (RT), SubViewer (SV), WebVTT

### OUTPUT

#### Video

Video de-interlace, Frame rate conversion  
Video cropping and resize  
Aspect-ratio conversion  
Color enhancement  
Logo insertion  
Subtitles Hardcoded in to video  
Multiple bit-rate conversion  
Single pass or double pass encoding  
Constant or variable bit rate  
Constant or variable framerate

H.222/H.262 - MPEG-2	FHD(1080p@30)
H.263 - Sorenson Spark	HD(720p@30)
H.263 v2	HD(720p@50)
H.263 v3 - MPEG-4 Part 2	FHD(1080p@30)
H.263 v3 - MPEG-4 Visual	FHD(1080p@30)
H.263 v3 - Divx	FHD(1080p@30)
H.264 - MPEG-4 AVC	4K (2160p@30)
H.265 - MPEG-H Part 2 HEVC	8K (4320p@128)
VP7	FHD(1080p@50)

VP8	FHD (1080p@60)
VP9	4K (2160p@30)
Theora	FHD (1080p@50)

#### Performance

- 1 UHD H.265 (2160p@30) streaming service with 6 H.264 profiles (1080p, 720p, 480p, 360p, 240p, 144p) per service
- 2 UHD H.264 (2160p@25) streaming service with 3 H.264 profiles (4K, 360p, 144p) per service
- 5 FHD H.264 (1080p@60) streaming service with 4 H.264 profile (1080p, 720p, 240p, 144p) per service
- 5 FHD H.264 (1080p@60) streaming services with 3 MPEG-2 profiles (1080p, PAL/480p, 360p) per service
- 6 HD H.264 (720p@60) streaming services with 5 H.264 profiles (720p, 480p, 360p, 240p, 144p) per service
- 12 SD MPEG-2 (PAL/NTSC) streaming services with 4 H.264 profiles (480p, 360p, 240p, 144p) per service

#### Audio

- Automatic Gain Control
- Audio Resampling
- Mix channels
- Up to 16 audio tracks per service

MPEG-1 Audio Layer II (mp2)	384 kbit/s	48kHz	Stereo
MPEG-2 Audio Layer III (mp3)	320 kbit/s	48kHz	5.1 (6)
MPEG-2 Part 7 Advanced Audio Coding (AAC)	320 kbit/s	96kHz	7.1 (8)
MPEG-4 Part 3 Advanced Audio Coding (LC-AAC & HE-AAC)	320 kbit/s	96kHz	7.1 (8)
Free Lossless Audio Codec (flac)	32.0 Mbit/s		7.1 (8)

#### Subtitles

DVB-Subtitles, DVB-Teletext, DVD-Subtitles, SSA, ASS, SRT, TTF, MOV, Text, Real Text, SubRip, SubViewer, WebVTT

#### Encapsulated - Protocols

HLS - HTTP Live Streaming (Apple)  
RTP - Real-time Transport Protocol  
UDP - User Datagram Protocol

#### Operation

Web Interface administrators  
Web responsive interface for users  
Video players multiscreen (responsive)

### HARDWARE SPECIFICATIONS

#### Chassis

1U 14.5" Rackmount Chassis (43x437x369mm)  
4x High-efficiency Fans  
Weight: 13.4kg

#### LAN Support

Quad LAN, 4x GbE LAN ports

#### Power supply

350W AC, 100-240V 50-60Hz 4.2-1.8 A  
Gold efficiency certified