



TBS8510 Multiple inputs H.264/H.265 IPTV Transcoder

--- Support up to 20*Full HD or 40*SD profiles



Product Overview:

TBS8510 is a real-time multi-channels/format transcoder, which supports to convert media files from their source format into the best-possible-quality streams to each user's specific device. It allows to convert streams to any MPEG-4 or H.264/H.265 format, bit rate and resolution.

TBS8510 is a cost-effective IPTV/OTT real-time transcoder, as it supports 40 HD channels or 100 SD channels transcoding, with protocol of UDP, RTP, RTMP, HTTP, HLS, and Media Files.

TBS8510 can be easily managed through NMS system and has become an ideal solution for operator to provide high quality video transcoding. It is a real multi-channel/formal transcoding server which answers all market requirements and is thus the suitable solution to Terrestrial, Satellite, Cable, IPTV networks.

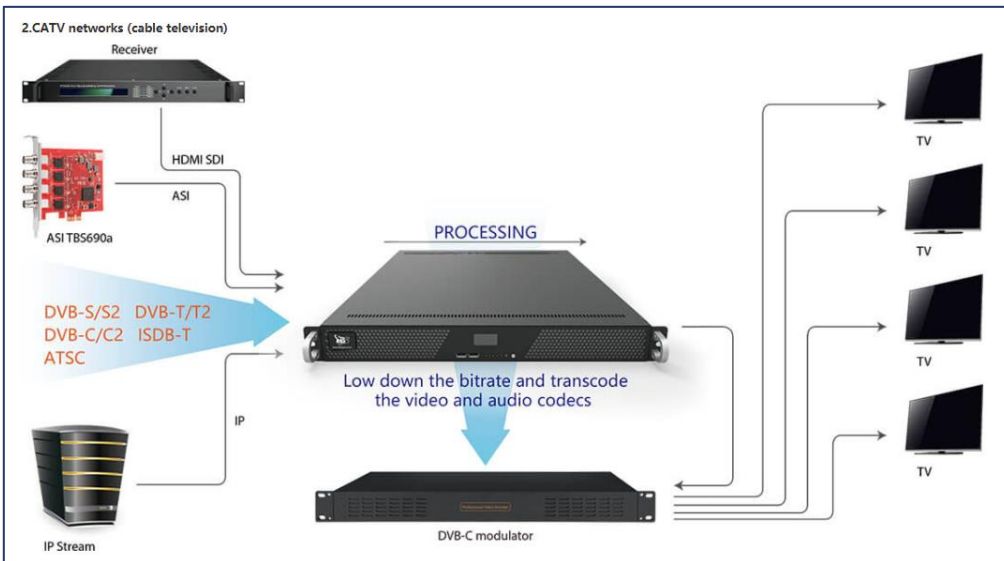
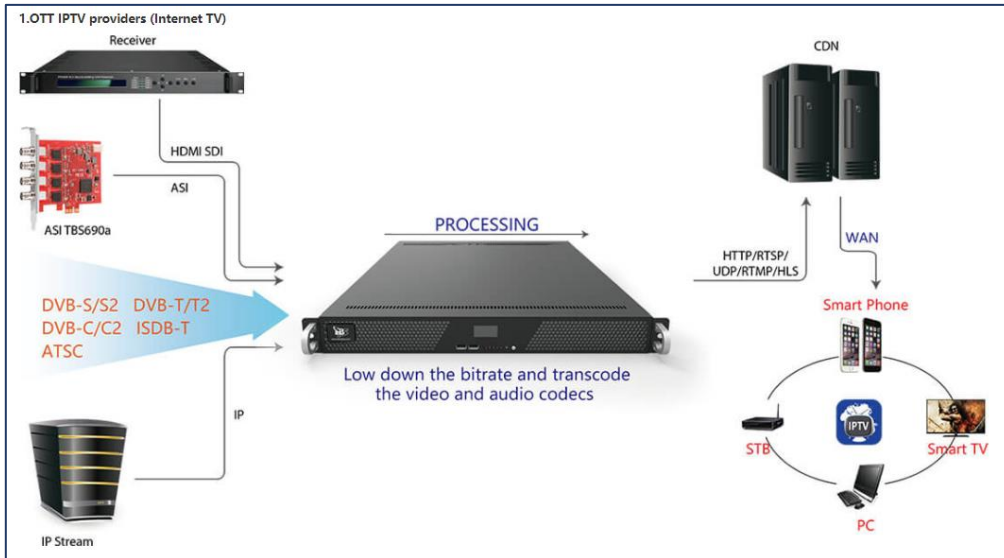
Version 1. Supports to install 2 TBS tuner card (up to 16 tuners) inside to receive signals from DVB, it supports to transcode up to 30 HD /80 SD channels.

Version 2. It does not support installing TBS tuner card inside, all signal from IP support transcoding up to 40 HD/ 100 SD channels.

Main Features:

- High performance transcoder supports to convert up to 20*Full HD or 40*SD profiles.
- Multiple inputs available: DVB/S2/S/T2/T/C, ISDB-T, HDMI, ASI or IP.
- Optimized for 1000Kbps for SD, 1800Kbps for HD 720P, 2500Kbps for HD 1080p.
- Supports HEVC / H.265 transcoding.
- Baseline, main profile and high profile with variable GOP.
- Multiple codec, Protocol, Bitrate Resolution, Profile per channel.
- GbE IP output: UDP, RTMP, Pull/Push HTTP, HTTP, Live Smooth (HLS), FTP M3u8 playlist files.
- 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.
- Support variable Bit Rate (VBR) encoding maximizes adaptive streaming video quality and bandwidth efficiency.
- Based on embedded Centos 7 Linux.

- DVB Subtitle and Logo insertion.
- Parameter templates settings and imports
- Designed for secure 24*365 operation





Specifications:

Size	1U
Interface	2xRJ45, 1000M Base-T2 2xPCI-E slot
Input	
Input Signal	DVBS/S2, DVBT/T2, DVBC, ATSC, ISDBT, DTMB, HDMI, ASI
Input Net Stream	UDP, RTP, HTTP, HLS, Media Files, SRT
Video codecs	MPEG-2, AVC / H.264, HEVC / H.265
Resolution	1920x1080P, 1920x1080i, 1280x720P, 720x576i, 720x480i, 480x576, 544x576, 640x576, 704x576
Audio codecs	AAC, MP2, MP3, AC-3
Output	
Output types	UDP, RTMP, HTTP, HLS(ABR), SRT
Video codecs	MPEG-2, AVC / H.264, HEVC / H.265
Resolution	1920x1080P, 1920x1080i, 1280x720P, 720x576i, 720x480i, 480x576, 544x576, 640x576, 704x576
Audio codecs	AAC, MP3
Rate Control	CBR/VBR
Transcoder	Version 1: up to 80 SD/30 HD 1080 AVC(h.264) streams up to 60 SD/28 HD 1080 HEVC(h.265) streams Version 2: up to 100 SD/40 HD 1080 AVC(h.264) streams up to 80 SD/36 HD 1080 HEVC(h.265) streams
Power Consumption	Less than 200W