

ISDB-Tb Multi format Encoding



HD, SD and One Seg H.264 Encoder for ISDB-Tb

The ATEME Kyrion® AM2101 has been designed to encode in MPEG-4/H.264 Full Seg and One Seg ISDB-Tb television services simultaneously.

Kyrion AM2101 can deliver dual stream in 2 formats: Full seg service in SD or HD and second service with a 1SEG compliance output.

With its last generation of Compression Engine featuring the most advanced high profile compression tools, including full support for interlaced video (MBAFF), Kyrion AM2101 enables pristine Full HD at all ISDB-Tb bitrates.

Kyrion AM2101 is a fully programmable hardware design, based on FPGA technology. The Kyrion encoder always benefits from ATEME's latest MPEG-4 encoding enhancements through software upgrades in the field.

KEY FEATURES

- SD or HD H.264 High Profile Encoder
- Second mobile format stream for One Seg service
- Native HE-AAC V2 audio encoding
- ISDB-Tb certified
- SD/HD Automatic switching
- SNMP control support

BENEFITS

- Available as SD only encoder, Software Upgrade to HD
- Delivers SD/HD service and 1 seg Mobile service simultaneously in one box
- Supported and deployed by leading integrators and transmission system manufacturers

VIDEO SPECIFICATIONS

Video Compression

Dual Streaming:

- Main SD/HD channel MPEG-4 AVC/H.264 - Main and High Profile up to Level 4.
- Options and License:
 - **Second stream 1seg compliance***.
 - Second stream low resolution for web streaming or PiP.



Video formats

HD: 1080i , 720p and 1080psf24*
SD: 576i and 480i

Automatic input format detection and configuration*

Resolutions

1080i x 1920, 1536, 1440, 1280 and 960 pixels
720p x 1280, 1024, 960 and 640 pixels
576i x 720, 576, 544, 480 and 352 pixels
480i x 720, 640, 576, 544, 480 and 352 pixels

Transmission Partners

Frame rates

1080i @ 25, 29.97, 30 Hz
1080p @ 23.97, 24, 25, 29.97, 30 Hz
720p @ 50, 59.94 and 60 Hz
576i @ 25 Hz, 480i @ 29.97 and 30 Hz



Screen Service

TOSHIBA

Leading Innovation >>>

Picture in Picture and Mobile resolution

30 or 29.97 fps
Resolutions SIF, CIF, QCIF, SQCIF:
288x360, 352, 320
288x360, 352, 320, 416
144x176, 120x176, 96x128, 96x96.
Identical or independent GOP structure

Ancillary data

BML (Broadcast Markup Language)
Closed captioning compliant with EIA-608, EIA-708, SMPTE 334 and standard ATSC.
DVB Teletext/CEEFAX
Vchip parental control
VITC Time code

Signaling

Wide Screen Signaling (WSS)
Active Format Description (AFD)



AUDIO SPECIFICATIONS

Number of Channels

Native Encoding up to 8 stereo pairs, 5.1 audio service supports.

Compression formats

MPEG-1 Layer II
MPEG-2/MPEG-4 AAC-LC
HEV1-AAC, HEV2-AAC

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