

Transcoder Module

TANGRAM GT37

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The GT37 module is part of the TANGRAM product portfolio. The GT37 SD/HD transcoder module is able to transcode Video/Audio signals to different MPEG codecs.

TANGRAM is a very high density and highly flexible solution for all kinds of networks. The WISI Tangram chassis uses a fully redundant concept.

Features

- TRANSCODING OF UP TO 4 HD OR 4 SD CHANNELS PER MODULE
- TRANSCODING MPEG-4 ↔ MPEG-2
- SUPPORTS MPEG-2 H.262 AND MPEG-4 H.264
- SUPPORTED FORMATS:
1080i, 720p, 576i, 480i
- INPUTS OPTIONS FOR TRANSCODING:
ASI OR IP MULTICAST

Transcoder

The transcoder module for TANGRAM Platform enables transcoding from MPEG-4 (AVC) to MPEG-2, MPEG-2 to MPEG-4 and rate control.



CHANNEL PROCESSING

Headends for residential, regional and national networks.



HOUSING INDUSTRY

Headends for housing complexes, hotels and hospitals.



RF OVERLAY

Solutions for video services in GPON and Active Ethernet networks.

Technical Information

| Transcoding | |
|-------------------------|--|
| Transcoding | Up to 4 HD or 4 SD channels |
| Supported formats video | MPEG-2 SD, MPEG-2 HD, MPEG2 MP@ML, MPEG2 MP@HL, MPEG-4 AVC SD, MPEG-4 AVC HD, MPEG-4 AVC MP@L4.0, MPEG-4 AVC HP@L4.0 |
| Supported formats audio | MPEG 1 layer II, AAC, max. 2 audio streams per stream |
| Supported resolutions | 1080i, 720p, 576i, 480i |
| Supported tables | PAT, PMT and SDT* |
| Time stamp & de-jitter | Yes |

| IP Streaming input/output | |
|--|---|
| Max. SPTS/MPTS input Streams per module | 2 (CBR), 4* (CBR) |
| Max. SPTS/MPTS output Streams per module | 3 (CBR), 4* (CBR) |
| Communication protocol | Unicast (out) and Multicast (in/out), SPTS and MPTS |
| Packet Format | MPEG over RTP/UDP |
| Packet Size | 188byte |

* available on request

| ASI input/output | |
|------------------------------------|-----------------------|
| Input/Output | 2x ASI in, 1x ASI out |
| Impedance | 75 Ω |
| Frequency range | < 270 MHz |
| Return loss | > 17 dB (27-270 MHz) |
| Compliance | EN 50083-9:2002 |
| Packet size Input Output | 188 byte |
| PCR restamping | Yes |
| Input/Output max. payload bit rate | Typical 200 Mbit/s |

| General Data | |
|--------------------------------|---|
| Signalling | Multicolor LEDs (Power on - green, Error - red) |
| RF connectors | 2x BNC ports for Input, 1x F-Connector for output |
| Power consumption | ≤ 15W |
| Operating temperature range | -5°C to +45 °C (ETSI EN 300 019-1-3 Class 3.1) |
| Nominal temperature range | 15°C ... +35°C |
| Max. humidity (non condensing) | 95 % |
| EMV | EN 50083-2 |

| Related SW options | |
|--------------------|---|
| GTM1 | Service License Agreement extension 1 year |
| GTM3 | Service License Agreement extension 3 years |



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