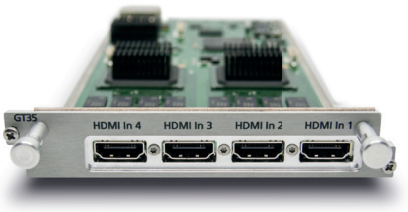
Product information

# WISI GT35

## Tangram HD/SD Encoder with 4x HDMI




### Description

The TANGRAM Encoder GT35 is a professional and high density HD/SD audio & video encoding device which adds the feature of MPEG-4 and MPEG-2 encoding to the TANGRAM product line. With the same form factor as the TANGRAM modules, the GT35 Encoder can be used in any TANGRAM base unit. GT35 allows you to add services available in HDMI format to your digital network. Per module are 4 HDMI inputs available, which enables 24 HMDI inputs in 1 RU.

### Scope of delivery

- 1x GT35 Module
- 1x Quick Guide

### At a glance:

- HD/SD MPEG-4 (AVC, H.264) and HD/SD MPEG-2 video encoding
- Up to 4 HDMI inputs per module
- Professional multiplexer integrated
- SPTS and MPTS streaming (CBR or VBR)
- Supports PSI/SI processing
- Integrated into the TANGRAM Systemmanagement
- Control and managment via web-UI
- SRT transmission up to 4 services

**WISI Communications GmbH & Co. KG**
Wilhelm-Sihn-Str. 5-7
75223 Niefern-Oeschelbronn, Germany
Phone: +49 7233 66-280, Fax: -350
E-Mail: export@wisi.de

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| Technical data | |
|---|---|
| **HDMI-Input** | |
| HDMI number of ports | 4 pcs. (HDMI) |
| Input format HDMI | 1080p25/30, 1080i50/60/59.94, 720p50/60/59.94, 576p50, 480p60/59.94, 576i50, 480i60/59.94 |
| Input format Audio | PCM (Pulse code modulation) |
| Compliance | HDMI 1.4a (no scaling) |
| HDCP Support | No |
| **Video Encoding** | |
| Encoding capacity | 4x HD/SD MPEG-2/MPEG-4 |
| Video system | MPEG-2 HD/SD and MPEG-4 HD/SD (H.264/AVC) |
| Picture size | 1080p25/30, 1080i50/60/59.94, 720p50/60/59.94, 576p50, 480p60/59.94, 576i50, 480i60/59.94 |
| Profile MPEG-4 | Baseline, Main, High |
| Bit rate | MPEG-2 10-19Mbps, MPEG-4 6-13Mbps @ 1080p25/30, 1080i50/60/59.94, 720p50/60/59.94; MPEG-2 4-12Mbps, MPEG-4 2-6Mbps @ 576p50, 480p60/59.94; MPEG-2 2-8Mbps, MPEG-4 1-4Mbps @ 576i50, 480i60/59.94 |
| Chroma sample | 4:2:0 |
| Aspect Ratio Conversion | 16:9 for HD; 4:3 for SD |
| Subtitle DVB Support | No |
| Subtitle OP47 Support | No |
| Picture size conversion | Downscaling yes, Upscaling no |
| Frame rate conversion | No |
| Test pattern | No |
| **Audio Encoding** | |
| Audio-system | ISO 11173-3 (MPEG-1 L2), MPEG-2 AAC (LC) |
| Number of audio channels | 1 per video input @ 4x HD/SD MPEG-2/MPEG-4;2 per video input @ 2x HD/SD MPEG-2/MPEG-4 |
| Sampling frequency | 44.1, 48 kHz |
| Bit rate | 64…288 Kbps (max. MPEG1 L2/AAC) |
| Audio modes | Stereo, AC-3 pass through |
| Sampling rate conversion | No |
| **Streaming-In-/Output** | |
| IP-Inputs | 0 or 32 pcs (32 with GTSTR software option) |
| IP-Outputs | 4 or 32 pcs (32 with GTSTR software option) |
| IP-Compliance | ISO/IEC 13818 |
| IP-Input bitrate | Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total |
| IP-Output bitrate | Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total |
| IP-Input protocol | UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3 |
| IP-Output protocol | UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3 |
| IP-TS-Input format | SPTS CBR/VBR, MPTS CBR |
| IP-TS-Output format | SPTS CBR/VBR, MPTS CBR |
| IP-FEC Inputs | 0 or 32 pcs. (with GTSTREC software option) |
| IP-FEC Outputs | 4 or 32 pcs. (with GTSTREC software option) |
| IP-FEC compliance | SMPTE 2022-1, SMPTE 2022-2 |
| IP-Packet format | MPEG over UDP/IP and RTP/IP |
| IP-Packet size | 188 Byte |
| IP-PCR restamping | Yes |
| Number of SRT streams | 4 (GTSRT/Stream) |

| Technical data | |
|---|---|
| **Processing** | |
| Service remultiplexing | Yes (GTSYMUX functionality inclusive) |
| PID filtering and remapping | Yes |
| PCR correction and de-jitter | Yes |
| Advanced PSI/SI regeneration | Yes |
| NIT generation | No |
| Compliance | ETSI EN 300 468 |
| Processing bitrate | Max. 1200 Mbps total |
| Number of PIDs | Max. 2000 PIDs total |
| **Connectors** | |
| HDMI input | 4 pcs. (for type A connector) |
| GigE/Control/Power supply (Backplane) | CompactPCI Type C (SGMII) |
| **General data** | |
| Power consumption | max. ≤18 W |
| Operating temperature range | -5°C…+45°C, 23°F…113°F, (ETSI EN 300 019-1-3 Class 3.1) |
| Max. humidity, non condensing | 95 % |
| Electro Magnetic Compatibility (EMC) | DIN EN 55022:2008-05 |
| Hardware revision | 1100 |
| Software version | 3.5 |

| Packaging data | |
|---|---|
| Sales unit | 1 pcs. |
| Dimensions (WxHxD) sales unit | 100 x 20 x 220 mm |
| Packaging volume sales unit | 0.44 $dm^3$ |
| Gross weight sales unit | 0.36 kg |
| Shipping unit | 1 pcs. |
| Dimensions (WxHxD) shipping unit | 170 x 70 x 340 mm |
| Packaging volume shipping package | 4 $dm^3$ |
| Gross weight shipping unit | 0.5 kg |
| EAN | 4010056764869 |
| Article number | 76486 |
| Customs tariff number | 85176200 |