

WISI GT 22 C

Tangram module IP to 8x FM



Description

The GT 22 C module is part of the Tangram product portfolio. The GT 22 C module allows you up to 8 services in FM format to your network. Tangram is a very high density and highly flexible solution for all kinds of networks. The WISI Tangram chassis uses a fully redundant concept (n+1, 1+1).

Scope of delivery

- 1x GT22 module
- 1x Quick Guide

At a glance:

- High quality IP to analogue FM modulation
- Up to 8 FM channels on 1 RF output
- Advanced MPEG decoding
- Outstanding signal parameters by direct digital modulation
- High density 48 FM channels in 1 RU
- RTP/ IP input streaming with FEC error correction
- RDS extraction and insertion
- For measurement / monitoring test ports of the output signal

Technical data

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|------------------------|--|
| Streaming-Input | |
| IP-Inputs | 32 pcs. |
| IP-Compliance | ISO/IEC 13818 |
| IP-Input 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-TS-Input format | SPTS CBR/VBR, MPTS CBR |
| IP-FEC inputs | Yes, with GTFEC License |
| 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 |
| IP-Dejittering | Yes, per default 100ms, individual adjustable |

Audio and RDS processing

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|-----------------------------|---|
| Audio decoder | ISO 13818-3 MPEG-1 (L1/L2); MPEG-2 (L1/L2) |
| Audio language | ISO 639 |
| Audio format | Mono/Stereo/Joint-Stereo |
| Audio level range | ±6 dB |
| Audio level step size | 1 dB |
| Pilot tone frequency | 19 kHz (±2 kHz) |
| Pilot tone phase stability | < ±3 ° |
| Pilot tone level | 6,75 kHz (±0,75 kHz) |
| RDS insertion | Yes, UECP SPB490 (dynamic and static) |
| RDS carrier frequency | 57 kHz (±6 Hz) |
| RDS carrier level | 2,5 kHz (±0,25 kHz) |
| RDS carrier phase stability | < ±10 ° |

Audio parameters

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|------------------------------|--|
| 38 kHz supression | ≥42 dB |
| Amplitude response | ≤ ±0,5 dB (40 Hz...15 kHz) |
| 15 kHz low pass filter | >40 dB (>19 kHz) |
| Total harmonic distortion | <0,2 % (75 kHz dev.) |
| S/N ratio (unweighted) | >60 dB (75 kHz dev.), (weighted ITU-R BS 468,4) >60 dB (75 kHz dev.) |
| L/R channel level difference | <1 dB (40 Hz...15 kHz) |
| L/R phase difference | <10 dB (40 Hz...15 kHz) |
| L/R separation | >43 dB (300 Hz...4 kHz) |
| Preemphasis characteristics | 50 μs (±2 μs) |

RF parameters

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|------------------------|---|
| Output ports | 1 pcs. (the second RF port is not in operation) |
| Channels per port | up to 8 |
| Output impedance | 75 Ω |
| Output frequency | 87,5...108 MHz |
| Output frequency steps | 1 kHz |
| Output level stability | ±1 dB |
| Output level | 102 dBμV |
| Output level setting | 0...30 dB (0,5 dB steps) |
| Output return loss | ≥14 dB (45 MHz -1,5 dB/Okt.) |

Technical data

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|------------------------|---------------|
| Output spectral purity | >66 dB |
| Output broadband noise | < -120 dBm/Hz |

Processing

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|------------------------------|----------------------|
| PCR correction and de-jitter | Yes |
| Processing bitrate | Max.1200 Mbps total |
| Number of PIDs | Max. 2000 PIDs total |

Connectors

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|---------------------|--|
| RJ45 | 1 pcs. (for local management) |
| F-socket RF- output | 4 pcs. (1x RF-Output, 1x Test-Output -20dB ± 1dB, 2x not in operation) |

General data

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| Power consumption | max. ≤19 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) | EN 50083-2 |
| Safety compliance | - |
| Signalling | Multicolor LEDs (Power on - green, Error - red) |
| Operation mode | - |
| Hardware revision | 1000 |
| Software version | 3.1 |

Packaging data

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|--------------------------------------|-------------------|
| Sales unit | 1 pcs. |
| Dimensions (WxHxD) sales unit | 100 x 20 x 250 mm |
| Packaging volume sales unit | 0,5 dm³ |
| Gross weight sales unit | 0,33 kg |
| Shipping unit | 1 pcs. |
| Dimensions (WxHxD) shipping unit | 170 x 75 x 340 mm |
| Packaging volume shipping package | 4,3 dm³ |
| Gross weight shipping unit | 0,42 kg |
| EAN | 4010056729783 |
| Article number | 72978 |
| Customs tariff number | 85437090 |