

WISI GT 22 C

Tangram module IP to 8x FM



ELPAS



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

Gigabit Ethernet Schnittstelle	
Data protocol	MPEG over UDP/IP and RTP/IP
Communication protocol	Unicast and multicast IGMP V2 (optional V3)
Syntax	SPTS and MPTS (ISO/IEC 13818)
Maximum data input bitrate using several MPTS signals	>800 Mbps (using several MPTS signals)
Maximum MPTS input bitrate	>150 Mbps (while selecting specific MPTS)
Maximum number of PIDs	360 pcs. (per module)
filter number	up to 8 (multicast-/unicast-filter)
Audio reference level	
Jitter tolerance	±100 ms
Audio and RDS Processing	
audio decoding	ISO 13818-3, MPEG-1 (L1/L2) (Musicam), MPEG-2 (L1/L2)
Audio language	ISO 639
Audio format	Mono/Stereo/Joint-Stereo
RDS Insertion	UECP SPB490 (dynamic and static)
Pilot tone frequency	19 kHz (±2 kHz)
Pilot tone phase stability	< ±3 °
Pilot tone level	6,75 kHz (±0,75 kHz)
RDS carrier frequency	57 kHz (±6 Hz)
RDS carrier level	2,5 kHz (±0,25 kHz)
RDS carrier phase stability	< ±10 °
38 kHz supression	≥42 dB
Audio level range	±6 dB
Audio level step size	1 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	
channels per connection	up to 8
Output frequency range	87,5...108 MHz (1 kHz-step)
Output level (each RF port)	102 dBµV
Output test point	-20 dB (± 1 dB)
Output level stability	±1 dB
Output return loss	≥14 dB (45 MHz -1,5 dB/Okt.)
Output level setting range	0...30 dB (0,5 dB-steps)
Spectral purity	>66 dB
broadband noise	<-120 dBm (pro Hz)
Connectors	
RJ45	1 pcs.
F-socket HF- output	4 pcs.
General data	
Operating voltage DC	12 V DC

Technical data

Power consumption	<19,2 W (max.)
Dimensions (width x height x depth)	100x200 mm
Operating temperature range	-5°C...+45 °C (ETSI EN 300 019-1-3 Class 3.1)

Packaging data

Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	325 x 150 x 55 mm
Packaging volume sales unit	dm³
Gross weight sales unit	0.420 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	170x70x340 mm
Packaging volume shipping package	2,681 dm³
Gross weight shipping unit	0,420 kg
EAN	4010056729783
Article number	72978
Customs tariff number	8543709000