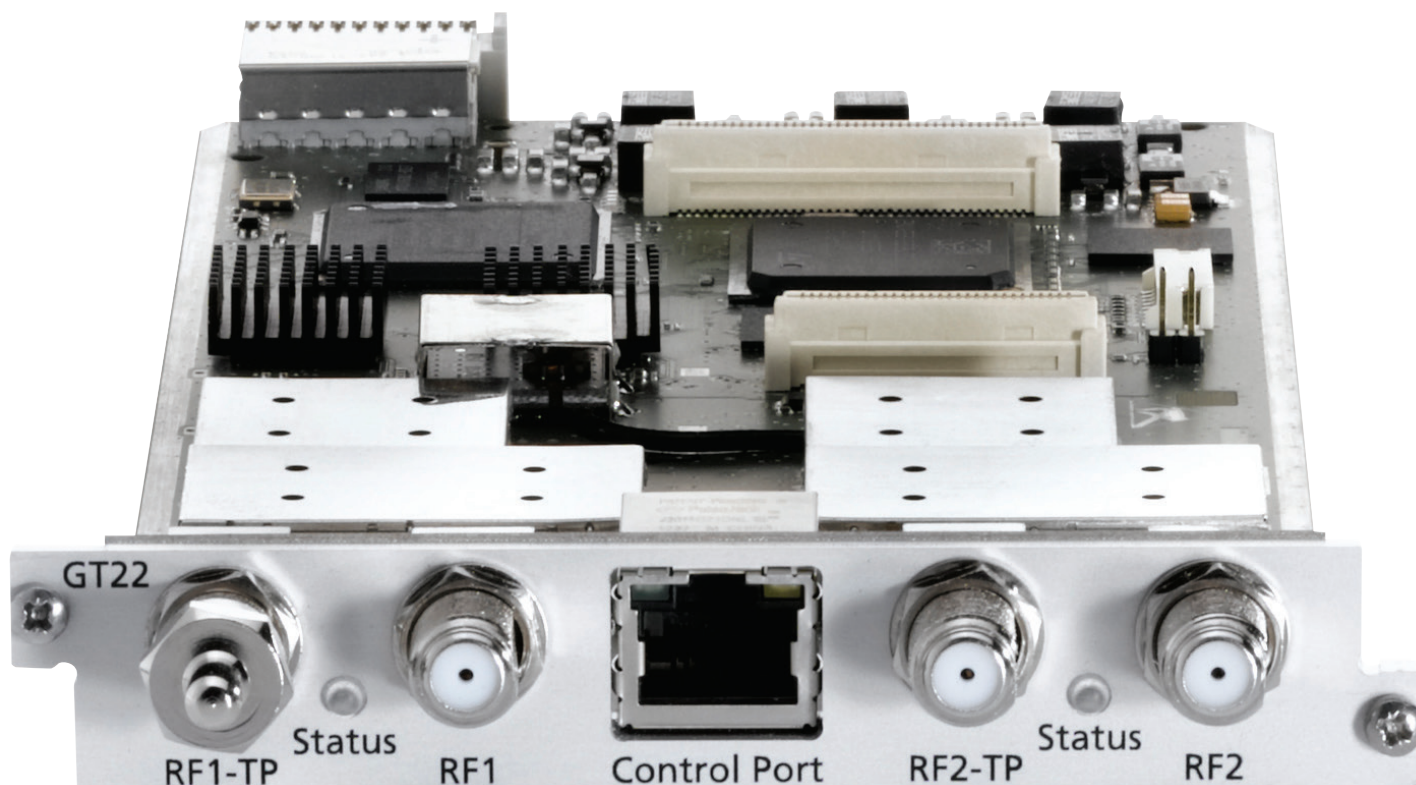


The GT22C module is part of the Tangram product portfolio. The GT22C module allows you to insert up to 8 services in FM format to your network. Tangram is a very high density and highly flexible solution for all kinds of networks. The WISI Tangram chassis uses a fully redundant concept (n+1, 1+1).



### Features and Benefits

- » High-quality IP to analogue FM modulation with advanced MPEG decoding
- » Up to 8 FM channels on 1 RF output
- » Fully redundant concept (1+1, n+1)
- » High density 48 FM channels in 1 RU
- » RDS extraction and insertion
- » Easily managed by an intuitive WEB based UI



### 14MM-GT12W Specifications

<b>Streaming-Input</b>	
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
<b>Audio and RDS processing</b>	
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	36 dB
Audio Level Step Size	1 dB
Pilot Tone Frequency	19 kHz (32 kHz)
Pilot Tone Phase Stability	< 33 °
Pilot Tone Level	6,75 kHz (30,75 kHz)
RDS Insertion	Yes, UECP SPB490 (dynamic and static)
RDS Carrier Frequency	57 kHz (36 Hz)
RDS Carrier Level	2,5 kHz (30,25 kHz)
RDS Carrier Phase Stability	< 310 °
<b>Audio parameters</b>	
38 kHz Suppression	≥42 dB
Amplitude Response	≤ 30,5 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 (32 μs)
<b>RF parameters</b>	
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.)
Output Spectral Purity	>66 dB
Output Broadband Noise Processing	< -120 dBm/Hz
PCR Correction and De-jitter	Yes
Processing Bitrate	Max.1200 Mbps total
Number of PIDs	Max. 2000 PIDs total
<b>Connectors</b>	
RJ45	1 pcs. (for local management)
F-socket RF- Output	4 pcs.(1x RF-Output, 1x Test-Output-20dB 3 1dB, 2x not in operation)
<b>General Data</b>	
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
Signalling	Multicolor LEDs (Power on - green, Error - red)
Hardware Revision	1000
Software Version	3.1
Dimensions (WxHxD)	100 x 20 x 250 mm
Gross Weight	0.33 kg