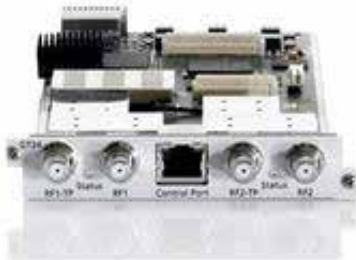


# WISI GT 24 W

Tangram module IP to 8x COFDM



**ELPAS**



## Description

The GT 24 W module is part of the Tangram product portfolio. The GT 24 W module allows you to add up to 8 channels in COFDM (DVB-T) format per module 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 GT24 module
- 1x Quick Guide

## At a glance:

- High quality IP to COFDM modulation
- Up to 8 COFDM channels on 2 RF outputs
- Outstanding signal parameters by direct digital modulation
- RTP/ IP input streaming with FEC error correction
- High density 48 COFDM channels in 1 RU
- DVB/ARIB transport stream processing
- For measurement / monitoring test ports of the output signal
- DVB CSA Simulcrypt scrambling

## Technical data

<b>Interface Gigabit Ethernet</b>	
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 multiple MPTS signals)
Maximum MPTS input bitrate	>100 Mbps (per specific MPTS)
Services per MPTS	1024 pcs. (per module)
Number of filter	up to 32 (multicast/unicast filter)
Jitter tolerance	±100 ms

## TS Processing

SPTS/MPTS Multiplexing inc.	SPTS / MPTS Multiplexing inc. supported
PID-Remapping	PID-Remapping
MPTS Pass-Through	Yes
SI-Table handling	Yes
Individual Cycle Times for Outgoing PSI/SI-Tables	Yes
Max. number of simultaneous E 16	16 pcs.

## COFDM Processing

MER	>40 dB (typ. 42 dB)
SNR	≥45 dB
Roll-Off	35 %
BER	≤1 * 10 <sup>-10</sup>
I/Q Ampl. Imbalance	≤0,10 %
I/Q Quadratur Error	≤0,10 °
Modulation	QPSK, 16-, 64-QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
FFT Mode	2k, 8k switchable
Spectrum flatness	±0,3 dB
Shoulder attenuation	≥54 dB

## RF parameters

Output ports	2 pcs.
Channels per port	pcs. up to 4 (2k-mode) or 3 (2k/8k-mode)
Output impedance	75 Ω
Output frequency	45...862 MHz
Output frequency window	34,2 MHz (per port)
Output frequency steps	1 kHz

## Modulation COFDM

Channel bandwidth	5 / 6 / 7 / 8 MHz
Output level (each RF port)	115(1 ch), 111(2 ch), 109(3 ch), 107(4 ch) dBμV
Test port at each output	-20 dB (± 1 dB)
Output level stability	±1 dB
Output return loss	≥14 dB (45 MHz -1,5 dB/Okt.)
Output level setting	0...30 dB (0,5 dB-steps)
Spurious (Inside TV-Channels)	>60 dB
Spurious (Outside TV-Channels)	45...450 MHz, typ. 66 dB, 450...862 MHz, typ. 64 dB, 862...1006 MHz, typ. 64 dB

## Technical data

<b>Connectors</b>	
RJ45	1 pcs.
F-socket HF- output	4 pcs.
<b>General data</b>	
Power consumption	<20,4 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	34 x 17 x 8 mm
Packaging volume sales unit	dm <sup>3</sup>
Gross weight sales unit	0.430 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	170x70x340 mm
Packaging volume shipping package	4,620 dm <sup>3</sup>
Gross weight shipping unit	0,430 kg
EAN	4010056712204
Article number	71220
Customs tariff number	8543709000