

Module IP to 8x COFDM

GT 24 W

Product information



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).

Features:

- Gigabit Ethernet MPEG-TS to COFDM
- Up to 8 COFDM channels on 2 RF outputs
- Total of max. 48 COFDM channels in 1RU
- Outstanding signal parameters by direct digital modulation & adapted output filter
- User friendly configuration via standard web browser
- Low power consumption

Tangram Module IP to 8x COFDM

GT 24 W



- Multi channel processor for up to 2x4 (2k-Mode)
- COFDM channels
- Test ports for the output signal
- COFDM channels individually switchable on/off
- PCR correction

- UDP/RTP over IP protocol, auto-detected
- Temperature and Output level monitoring

Following options can be activated via license key:

- IP input redundancy, with up to three alternative inputs
- FEC supported, 2D FEC modes automatically detected

Module Input		RF Parameter	
Interface	Gigabit Ethernet	Output ports	2
Data protocol	MPEG over UDP/IP and RTP/IP	Channels per port	up to 4 (2k-Mode), or 2 (2k/8k-Mode)
Communication protocol	Unicast and multicast IGMP V2 (optional V3)	Output impedance	75 Ohm
Syntax	SPTS and MPTS (ISO/IEC 13818)	Output frequency	45...862 MHz
Maximum data input bitrate using multiple MPTS signals	> 800 MBit/s	Output frequency window	34,2 MHz/port
Maximum MPTS input bitrate per specific MPTS	> 100 MBit/s	Output frequency steps	1 kHz
Services per MPTS	1024 per module	Modulation	COFDM
Number of filter (multicast/unicast filter)	up to 32	Channel bandwidth	5 / 6 / 7 / 8 MHz
Jitter tolerance	± 100 ms	Output level (each RF port)	115 dBµV (1 ch) 111 dBµV (2 ch) 109 dBµV (3 ch) 107 dBµV (4 ch)
TS-Processing		Test port at each output	-20 dB ± 1 dB
SPTS / MPTS Multiplexing inc.	supported	Output level stability	± 1 dB
PID-Remapping		Output return loss	≥ 14 dB (45 MHz) -1,5 dB / Octave
MPTS Pass-Through	supported	Output level setting	0...30 dB (0,5 dB steps)
SI-Table handling	supported	Spurious (Inside TV-Channels)	> 60 dB
Individual Cycle Times for Outgoing PSI-SI-Tables	supported	Spurious (Outside TV-Channels)	45...450 MHz, typ. 66 dB 450..862 MHz, typ. 64 dB
Max. number of simultaneous ECMG/EMMG connections	16	Module General data	
COFDM-Processing		Size	100 x 220 mm
MER	> 40 dB, typ. 42 dB	Signaling	2 x operating led green/yellow/red
SNR	≥ 45 dB	Connectors	GigE/Control/Power
Roll-Off	35%	Management	1 x CompactPCI Typ C
BER	≤ 1 * 10-10	RF-Output	1 x RJ-45, 100BaseTX
- I/Q Ampl. Imbalance	≤ 0,10 %	Test-Output	2 x F-connector
- I/Q Quadratur Error	≤ 0,10 °	Power consumption	2 x F-connector
- Modulation	QPSK, 16-, 64-QAM	Operating temperature range	< 20,4 W
- FEC	1/2, 2/3, 3/4, 5/6, 7/8	Nominal temperature range	5°C...45 °C
- Guard interval	1/4, 1/8, 1/16, 1/32	Max. humidity non condensing	15°C...35 °C
- FFT Mode	2k, 8k switchable	EMV	95 %
- Spectrum flatness	± 0,3 dB		EN 50083-2
- Shoulder attenuation	≥ 54 dB		

WISI Communications GmbH & Co. KG

Empfangs- und Verteiltechnik

Wilhelm-Sihn-Strasse 5–7

75223 Niefern-Oeschelbronn, Germany

Telefon +49 72 33-66-280 Fax -3 50

export@wisi.de

www.wisi.de



excellence in digital ...