

# WISI GT 31 W

Tangram Frontend DVB-S/S2/C/T/T2/ISDB-T



**ELPAS**



## Description

The GT 31 W module is part of the Tangram product portfolio. The GT 31 W module allows you to add up to 4 DVB- transport streams 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.

## Scope of delivery

- 1x GT31 module
- 1x Quick Guide

## At a glance:

- Multi transport stream reception for DVB signals
- Up to 4 DVB-S/S2/C/T/T2/ISDB-T RF inputs
- DVB/ARIB transport stream processing
- RTP/ IP FEC output stream protection
- High density reception 24 transponder in 1 RU
- Demultiplex MPEG-2/MPEG-4 signals for SPTS transmission
- SPTS and MPTS streaming (CBR or VBR)
- UDP and RTP MPEG transport stream over IP protocol

## Technical data

### RF-Inputs DVB-S/S2

Modulation type	DVB-S/S2
Frequency range	950...2150 MHz
Level range	45...90 dB $\mu$ V
Symbol rate	1...45 MS/s (<100 Mbit)
FEC inner DVB-S2	LDPC 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
Return loss	>12 dB
DiSEqC	DiSEqC 1.0
LNB electrical power supply	0.4 A 13/ 18 V max.

### RF-Inputs DVB-T/T2

Modulation type	DVB-T/T2
Frequency range	43...862 MHz
Level range	39...79 dB $\mu$ V
COFDM-Spectrum DVB-T	2 k und 8 k FFT
Guard Interval	1/32, 1/16, 1/8, 1/4
FEC inner code DVB-T T2	Conv., K=7, G=1/2, 2/3, 3/4, 4/5, 5/6, 7/8
SAT-ZF-tap-off, 2-times	6, 7, 8 MHz
DVB-T2 bandwidth	1.7, 5, 6, 7, 8 MHz (and extended bandwidth)
Return loss	>18 dB @ 47 MHz, >12 dB @ 862 MHz

### HF-Inputs DVB-C

Modulation type	DVB-C
Frequency range	43...862 MHz
Level range	49...90 dB $\mu$ V (QAM256)
Symbol rate DVB-C	1...7.2 Mbaud
QAM-Modulationsart	16-, 32-, 64-, 128-, 256-QAM
Return loss	>18 dB @ 47 MHz, >12 dB @ 862 MHz
Compliance	EN300421, EN302307, EN300744, EN302755, EN300429, Nordig unified ver 2.2.1, D-book 7.0

### Control Ethernet port (management only)

Capability	100BASE-TX
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### Backplane

Protocols	MPEG over RPT/UDP
Communication protocol	UDP/RTP Unicast and Multicast, IGMP v2 and v3
capacity	$\leq$ 400 pF/m
PID-Filters	The GT 31 supports blocking elementary pids in MPTS output. The GT 31 supports remapping of pid numbers
Bitrate mode	CBR(optional VBR)
Remux	GT 31 can output up to 32 SPTS/ MPTS simultaneously. Each SPTS/ MPTS can be de-/ remuxed from all inputs

### Connectors

RJ45	1 pcs.
F connector RF input	4 pcs.

### General data

## Technical data

Power consumption	<25 W (max.)
Dimensions (width x height x depth)	256x114x2 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	100x20x220 mm
Packaging volume sales unit	dm <sup>3</sup>
Gross weight sales unit	0.360 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	170x70x340 mm
Packaging volume shipping package	2,700 dm <sup>3</sup>
Gross weight shipping unit	0,360 kg
EAN	4010056739720
Article number	73972
Customs tariff number	8543709000