

WISI GT 31 W

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



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	
Number of tuner	4 pcs.
Modulation type	DVB-S/S2
Frequency range	950...2150 MHz
Level range	35...90 dB μ V, -74...-19 dBm
Symbol rate	1...45 Mbaud (<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	
Number of tuner	4 pcs.
Modulation type	DVB-T/T2
Frequency range	43...862 MHz
Level range	39...79 dB μ V, -70...-30 dBm
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
DVB-T2 bandwidth	1.7, 5, 6, 7, 8 MHz (and extended bandwidth)
Return loss	>18 dB @ 47 MHz, >12 dB @ 862 MHz

RF-Inputs DVB-C	
Number of tuner	4 pcs.
Modulation type	DVB-C
Frequency range	43...862 MHz
Level range	49...90 dB μ V, -90...-19 dBm (QAM 256)
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

RF-Inputs ISDB-T	
Number of tuner	4 pcs.
Modulation type	ISDB-T
Frequency range	43...862 MHz
Level range	38...90 dB μ V, -71...-19 dBm
Compliance	ARIB STD-B31, Layer A
Bandwidth ISDB-T	6/7/8 MHz

Streaming-In-/Output	
IP-Inputs	0 pcs.
IP-Outputs	64 or 4 pcs.
IP-Compliance	ISO/IEC 13818
IP-Input bitrate	-
IP-Output bitrate	Max. 100 Mbps per IPTS, Max. 850 Mbps total
IP-Input protocol	-
IP-Output protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3

Technical data

IP-TS-Input format	-
IP-TS-Output format	SPTS CBR/VBR, MPTS CBR
IP-FEC Inputs	-
IP-FEC Outputs	4, 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

Processing	
Service remultiplexing	Yes, with GTMUX License
PID filtering and remapping	Yes
PCR Korrektur und de-jitter	Yes
Advanced PSI/SI regeneration	Yes
Encryption	No
Encryption throughput	-
Decryption	No
Decryption throughput	-
Compliance	ETSI EN 300 468
Processing Bitrate	Max. 400 Mbps total
Number of PIDs	Max. 1040 PIDs total

Connectors	
RJ45	1 pcs.
F connector RF input	4 pcs.

General data	
Power consumption	<25 W (max.)
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
Safety compliance	UL/CSA/CAN 60950-1
Signalling	Multicolor LEDs (Power on - green, Error - red)
Operation Mode	Streaming FEC or streaming
Hardware revision	1102
Software version	2.4
Tuner	Tuner 067

Packaging data

Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	100x20x220 mm
Packaging volume sales unit	0,44 dm ³
Gross weight sales unit	0.360 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	170x70x340 mm
Packaging volume shipping package	4,4 dm ³
Gross weight shipping unit	0,360 kg
EAN	4010056739720
Article number	73972
Customs tariff number	85437090