

# WISI GT 33

Tangram 8VSB - ATSC/QAM J.83 B IP Gateway



## Description

The GT 33 module is part of the TANGRAM product portfolio. The GT 33 module allows you to add up to 8 8VSB - ATSC/QAM J.83 B transport streams with 4 RF connectors 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 GT33 module
- 1x Quick Guide

## At a glance:

- Multi transport stream reception for ATSC and QAM signals
- 8x 8VSB-ATSC/QAM J.83 B tuners with 4 RF inputs
- RTP/ IP FEC output stream protection
- High density reception 48 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	
<b>RF-Inputs ATSC</b>	
Number of tuner	8 pcs.
Modulation type	8VSB
Frequency range	47...862 MHz
Level range	45...90 dBµV, -64...-49 dBm
Return loss	>13 dB
<b>RF-Inputs DVB-C</b>	
Number of tuner	8 pcs.
Modulation type	J.83 Annex B
Frequency range	47...862 MHz
Level range	45...90 dBµV, -64...-49 dBm
QAM-Modulationsart	64-, 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
<b>Streaming-In-/Output</b>	
IP-Inputs	0 pcs.
IP-Outputs	64 or 128 pcs.
IP-Compliance	ISO/IEC 13818
IP-Input bitrate	-
IP-Output bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Input protocol	-
IP-Output protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3
IP-TS-Input format	-
IP-TS-Output format	SPTS CBR/VBR, MPTS CBR
IP-FEC Inputs	-
IP-FEC Outputs	32, 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
<b>Processing</b>	
Service remultiplexing	Yes, with GTMUX License
PID filtering and remapping	Yes
PCR Korrektur und de-jitter	Yes
Basic PSIP regeneration	-
Encryption	Yes, DVB-CSA, AES, Samsung LYNK
Encryption throughput	Max. 600 Mbps total
Decryption	Yes, BISS
Decryption throughput	Max. 300 Mbps total
Compliance	ETSI EN 300 468
Processing Bitrate	Max. 1200 Mbps total
Number of PIDs	Max. 4000 PIDs total
<b>Connectors</b>	
RJ45	1 pcs.
F connector RF input	4 pcs.
<b>General data</b>	
Power consumption	<12 W (max.)

Technical data	
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 standards	UL/CSA/CAN 60950-1
Signalling	Multicolor LEDs (Power on - green, Error - red)
Operation Mode	-
Hardware revision	1001
Software version	3.0
Tuner	-
Packaging data	
Sales unit	1 pcs.
Dimensions (WxHxD) sales unit	100 x 20 x 220 mm
Packaging volume sales unit	0,44 dm <sup>3</sup>
Gross weight sales unit	0.360 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	170 x 70 x 340 mm
Packaging volume shipping package	4,0 dm <sup>3</sup>
Gross weight shipping unit	0,360 kg
EAN	4010056746261
Article number	74626
Customs tariff number	85437090