

Frontend DVB-S/S2/C/T/T2 – IP Gateway

TANGRAM GT31W

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The GT31W module is part of the TANGRAM product portfolio. The GT31W module allows you to add up to 4 DVB transport streams per module to your network.

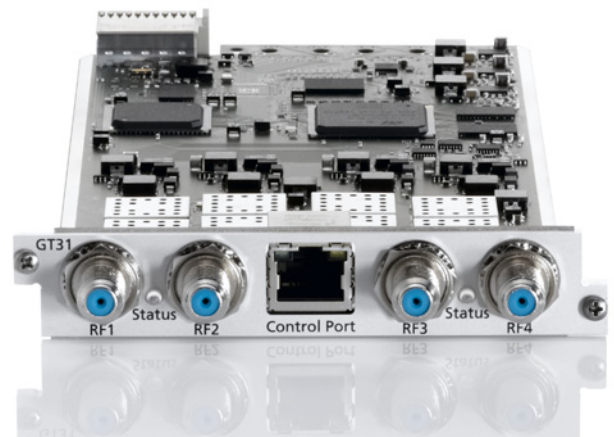
TANGRAM is a very high density and highly flexible solution for all kinds of networks. The WISI Tangram chassis uses a fully redundant concept.

Features

- MULTI TRANSPORT STREAM RECEPTION FOR DVB SIGNALS (4X DVB-S/S2/C/T/T2 RF INPUTS)
- ADVANCED DVB TRANSPORT STREAM PROCESSING
- UDP & RTP MPEG TRANSPORT STREAM OVER IP PROTOCOL
- SPTS AND MPTS STREAMING (CBR OR VBR)
- DEMULTIPLEXING MPEG-2/4 SIGNALS FOR SPTS TRANSMISSION
- HANDLING OF TELETEXT AND EPG DATA
- FEC OUTPUT SUPPORT
- REDUNDANCY FOR VIDEO STREAMING OUTPUT

High-density DVB - IP Gateway

The DVB – IP gateway module for Tangram platform enables flexible receiving of DVB-S/S2/C/T/T2 streams, multiplexing and IP SPTS/MPTS output streaming.



Solutions with TANGRAM



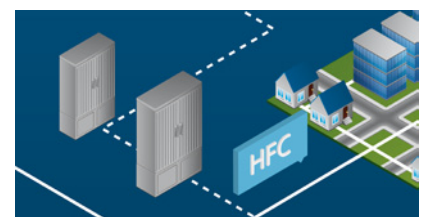
CHANNEL PROCESSING

Headends for residential, regional and national networks.



RF OVERLAY

Solutions for video services in GPON and Active Ethernet networks.



HFC

From the Headend to the wall-outlet: Everything for the cable network.

Technical Information

DVB-S/ S2 Receivers	
Impedance	75 Ω
Input frequency range	925-2150 MHz
Input level range	45 to 90 dBμV
DVB compliance	DVB-S (EN300421) DVB-S2 (EN302307)
Return loss	>12 dB
DiSEqC	DiSEqC 1.0. Supporting control of up to 4 satellite sources
FEC inner code	LDPC (1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10)
LNB voltage / power	13/18 V, 0,4A max.

IP Streaming	
Max. SPTS / MPTS output streams per module	64 (CBR or VBR)
Max. streaming capacity per module	<700 Mbit/s
Communication protocol	Unicast and Multicast, SPTS and MPTS
Packet Format	MPEG over RTP/UDP
Packet Size	188byte
Time stamp & de-jitter	Yes
Remultiplexing	Yes
PID remapping and filtering	Yes

General Data	
Signalling	Multicolour LEDs
RF connectors	4x F-connector, female
Front Ethernet connector	RJ45 (only for local management)
Power Consumption	≤ 25W (12 W typical without LNB)
Operating temperature range	-5°C to +45 °C (ETSI EN 300 019-1-3 Class 3.1)

DVB-T/T2 Receivers	
Impedance	75 Ω
Input frequency range	43-1002 MHz
Input level range	39 to 79 dBμV
DVB compliance	DVB-T (EN300744) DVB-T2 (EN302755)
Return loss	>18 dB @ 47 MHz >12 dB @ 862 MHz
Bandwidth (DVB-T) (DVB-T2)	6/7/8 MHz 1.7/5/6/7/8 MHz and ext. bandwidth
FEC inner code	Conv., K=7, G= 1/2, 2/3, 3/4, 4/5, 5/6, 7/8
COFDM spectral	2k and 8k FFT
Guard interval	1/32, 1/16, 1/8, 1/4

DVB-C Receivers	
Impedance	75 Ω
Input frequency range	43-1002 MHz
Input level range	49 to 90 dBμV (QAM256)
DVB compliance	DVB-C (EN300429/ ITU J.38 Annex A)
Return loss	>18 dB @ 47 MHz >12 dB @ 862 MHz
QAM modulation scheme	16-, 32-, 64-, 128-, 256-QAM
DVB-C symbol rate	1 to 7.2 Mbaud

Related SW Options	
GTM1	Service Level Agreement extension 1 year
GTM3	Service Level Agreement extension 3 years
GTFEC	Enabling IP streaming with FEC in per module
GTMUX	Enabling selection of services from several input sources to an output

Related Hardware



TANGRAM chassis

GT01: 19inch, 1 HU subrack with embedded GigE switch, embedded fans and PSU, and redundant PSU as option.

For more information about GT01, and GTx modules, please contact WISI sales, or visit our web site www.wisi.de.



TANGRAM modules

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|----------------------|-----------------------------|
| GT21: EdgePAL | GT24: EdgeCOFDM |
| GT22: EdgeFM | GT32: ASI IP Gateway |
| GT23: EdgeQAM | GT42: Descrambler |



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