

IP Processing Module

TANGRAM GT41W

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The GT41 module is part of the TANGRAM product portfolio. GT41 is a IP processing module for multiplexing/remultiplexing MPTS ↔ SPTS streams and scrambling of content.

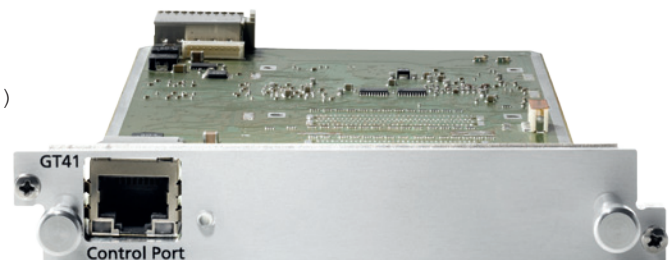
TANGRAM is a very high density and highly flexible solution for all kinds of networks. The WISI Tangram chassis uses a fully redundant concept.

IP Processing

The IP processing module for TANGRAM Platform enables multiplexing/remultiplexing (MPTS ↔ SPTS) and content scrambling.

Features

- HIGH DENSITY MPTS ↔ SPTS IP GATEWAY
- DVB SCRAMBLING FOR IPTV OUT
- DVB CSA SIMULCRYPT SCRAMBLING
- ADVANCED DVB TRANSPORT STREAM PROCESSING
- SUPPORTS MPEG-2 H.262 AND MPEG-4 H.264 SCRAMBLING (SD & HD)
- SPTS / MPTS STREAMING AND RECEPTIONS (CBR OR VBR)
- HIGH FLEXIBILITY SCRAMBLING ON PID LEVEL
- DEDICATED ETHERNET INTERFACE FOR CAS CONNECTION
- MULTIPLEXING AND REMULTIPLEXING



Solutions with TANGRAM



CHANNEL PROCESSING

Headends for residential, regional and national networks.



HOUSING INDUSTRY

Headends for housing complexes, hotels and hospitals.



RF OVERLAY

Solutions for video services in GPON and Active Ethernet networks.

Technical Information

IP Streaming	
Max. SPTS/MPTS input streams per module	64 SPTS (CBR or VBR)* ¹ 16 MPTS (CBR or VBR)* ²
Max. SPTS/MPTS output streams per module	16 MPTS (CBR or VBR)* ¹ 64 SPTS (CBR or VBR)* ²
Max. streaming capacity per module	<400 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* ³
PID remapping and filtering	Yes

*¹ operation mode "splitter"

*² operation mode "combiner"

*³ the multiplexing functionality (GTMUX) is included in the hardware

General Data	
Signalling	Multicolor LEDs (Power on - green, Error - red)
Front Ethernet connector	RJ45 (only for local management)
Power consumption (empty)	≤ 5W
Operating temperature range	-5°C to +45 °C (ETSI EN 300 019-1-3 Class 3.1)
Nominal temperature range	+15°C ... +35°C
Max. humidity (non condensing)	95%
EMV	EN 50083-2

Related SW options	
GTM1	Service Level Agreement extension 1 year
GTM3	Service Level Agreement extension 3 years
GTRED	Enabling IP input redundancy
GTSCR* ⁴	Enabling DVB-CSA Simulcrypt Scrambling

*⁴ available on request

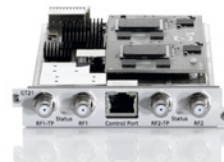
Related Hardware



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

GT21: EdgePAL

GT22: EdgeFM

GT23: EdgeQAM

GT24: EdgeCOFDM

GT31: DVB-S/S2/C/T/T2 Reception

GT32: ASI IP Gateway

GT42: Descrambler



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