

# WISI GT 41

## IP Processing Module



### Description

The GT41 module is part of the TANGRAM product portfolio. GT41 is a universal IP processing module for multiplexing/remultiplexing MPTS <-> SPTS streams, scrambling and descrambling of content. The IP processing module can support up to 128 unique services to a total bandwidth of 850 Megabits per second, handling even the most complex HD lineups. Ensuring compatibility with any headend, Verimatrix, Pro:Idiom, DVB CSA Simulcrypt and CAS bulk Encryption and Decryption options are also available. 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 GT41 module
- 1x Quick Guide

### At a glance:

- Supports the reception and transmission of SRT streams (\*GTSRT)
- MPTS <-> SPTS IP Gateway
- DVB, AES, Pro:Idiom or Samsung LYNK scrambling for IPTV out
- DVB/ARIB transport stream processing
- SPTS/MPTS Streaming and Reception via IP (CBR or VBR)
- Dedicated Ethernet interface for CAS connection
- High flexibility scrambling on PID Level
- Embedded Verimatrix Bulk Decryption
- SRT transmission of up to 4 services
- SRT reception of up to 4 services

## Technical data

Streaming-In-/Output	
IP-Inputs	32 or 64 or 128 pcs. (128 with GTSTRX Software option)
IP-Outputs	32 or 64 or 128 pcs. (128 with GTSTRX Software option)
IP-Compliance	ISO/IEC 13818
IP-Input bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Output bitrate	Max. 425 Mbit/s per IPTS, Max. 850 Mbit/s total
IP-Input protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3, SRT
IP-Output protocol	UDP/RTP/RTP+FEC Unicast and Multicast, IGMP v2 and v3, SRT
IP-TS-Input format	SPTS CBR/VBR, MPTS CBR
IP-TS-Output format	SPTS CBR/VBR, MPTS CBR
IP-FEC Inputs	32 or 64 or 128 pcs. (with GTFEC Software option)
IP-FEC Outputs	32 pcs. (with GTFEC Software option)
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
IP-Dejittering	Yes, per default 100ms, individual adjustable
Number of SRT streams	4 (GTSRT/Stream)
SAP (Session Announcement Protocol)	Yes

## Processing

Service remultiplexing	Yes (GTMUX functionality is included)
PID filtering and remapping	Yes
PCR correction and de-jitter	Yes
Advanced PSI/SI regeneration	Yes
Encryption	Yes, DVB-CSA, AES-128 (CBC, ECB-L, ECB-T, BISS2), Samsung LYNK, Pro:Idiom, IDSA/ATIS-0800006, DVB-CIS-SA, VSecure with software options GTSCR, GTSCRX, GTLYNK, GTLYNKX, GTPISCR8, GTPISCR16, GTPISCR24, GTVSEC, GTVSECX
Encryption throughput	Max. 850 Mbps total
Decryption	Yes, BISS/BISS-E/BISS2 with software option GTBISS, Verimatrix with software options GTVMX, GTVMXX
Bulk decryption	Yes, Verimatrix with GTVMX, GTVMXX software options
Decryption throughput	Max. 850 Mbps total
Compliance	ETSI EN 300 468
Processing bitrate	Max. 1700 Mbps total
Number of PIDs	Max. 4000 PIDs total

## Connectors

## Technical data

RJ45	1 pcs.
F connector RF input	0 pcs.
General data	
Power consumption max.	<5 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, FCC CFR 47 Part 15 (Class A)
Safety compliance	CE, UL/CSA/CAN 62368-1
Signalling	Multicolor LEDs (Power on - green, Error - red)
Operation Mode	Scrambling, Descrambling, Pro:Idiom
Hardware revision	3001
Software version	3.6.2

## 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	0.32 kg
Shipping unit	1 pcs.
Dimensions (WxHxD) shipping unit	170 x 70 x 340 mm
Packaging volume shipping package	4 dm <sup>3</sup>
Gross weight shipping unit	0.38 kg
EAN	4010056765996
Article number	76599
Customs tariff number	85176200