

Universal Descrambler Module

TANGRAM GT42W

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The GT42W module is part of the TANGRAM product portfolio. GT42W is a high performance multi-service descrambling module which allowing descrambling with standard CAM modules.

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

High-density Descrambler

In combination with the input module for DVB-T/T2/S/S2/C or ASI and even IP the universal descrambler module for the TANGRAM platform enables descrambling from any source.

Features

- 4 COMMON INTERFACE (DVB-CI) SLOTS PER MODULE
- CAM WATCHDOG - AUTO RESET ON DESCRAMBLING FAILURES
- SUPPORT FOR ALL MAJOR CA SYSTEMS AND CAMS
- 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
- UP TO 24 CA MODULES PER 1RU CHASSIS
- DESCRAMBLING CAPACITY OF SERVICES DEPENDS ON THE USED CAMS
- FEC OUTPUT SUPPORT – IP ERROR PROTECTION



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.

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Technical Information

| CI Multidecryption | |
|---------------------|-----------------|
| Number of CI slots | 4 CI slots |
| Supported bit rates | 55/66/72 Mbit/s |
| DVB Compliance | EN 50221 |

| IP Streaming | |
|------------------------------------------|------------------------------------------------------------------------|
| Max. SPTS/MPTS input streams per module | 4 (CBR or VBR) |
| Max. SPTS/MPTS output streams per module | 60 (CBR or VBR) with Streaming mode 4 (CBR) with Streaming FEC mode |
| 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 |
| PID remapping and filtering | Yes |

| General Data | |
|-----------------------------|-------------------------------------------------|
| Signalling | Multicolor LEDs (Power on - green, Error - red) |
| Front Ethernet connector | RJ45 (only for local management) |
| CAM connectors | 4x PCMCIA (5V DC) |
| Power consumption (empty) | ≤ 5W (without CA Modules) |
| Power consumption (typ.) | ≤ 10W (with 4xCA Modules) |
| Operating temperature range | -5°C to +45 °C (ETSI EN 300 019-1-3 Class 3.1) |

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

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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



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