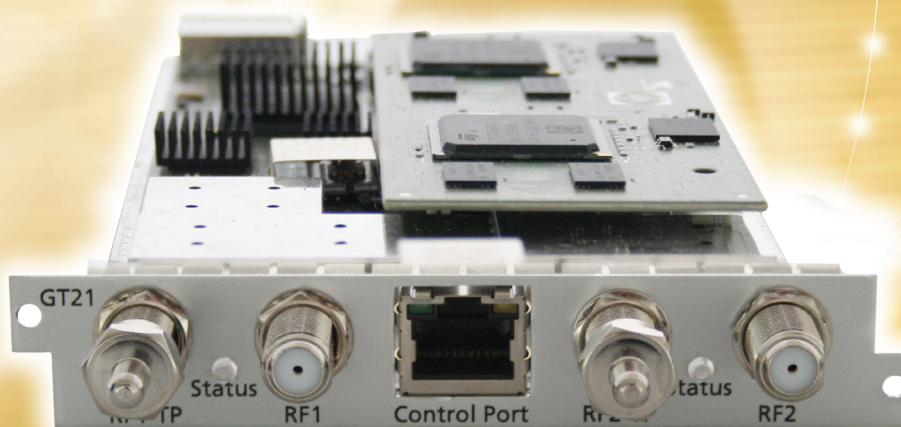


Module 6x IP to PAL GT 21 W

Product information



The GT 21 W module is part of the Tangram product portfolio. The GT 21 W module allows you to add up to 6 services in PAL /SECAM format 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 (n+1, 1+1).

Features:

- Gigabit Ethernet MPEG-TS to analogue PAL /SECAM Decoder
- MPEG-2 & MPEG-4 h.264 decoding (SD & HD)
- Up to 6x PAL outputs (SD)
- Test ports for the output signal
- Outstanding signal parameters by direct digital modulation & adapted output filter



Tangram Module 6x IP to PAL GT 21 W

- User friendly configuration via standard Webbrowser
- Low electrical power consumption

Module Input

Interface Gigabit Ethernet
 Data protocol MPEG over UDP/IP and RTP/IP
 Communication protocol Unicast and multicast IGMP V2 (optional V3)
 Syntax SPTS and MPTS (ISO/IEC 13818)
 Maximum data input bitrate using several MPTS signals > 800 MBit/s

Video Processing

Video Decoder 6x MPEG-2 ISO 13818-2
 MPEG-2 (MP@ML) 1,5 .. 15 MBit/s
 3x MPEG-4 H.264
 SD (MP@ML) Level 1.4
 HD (MP@HL) Level 1.4, downscaling
 4:3 / 16:9 / 4:3zoom
 Video format PAL / SECAM
 Video standard WST Teletext inserting
 Vertical blanking interval VPS inserting, line 16
 WSS inserting according to aspect ratio
 Subtitle DVB and Teletext
 Test lines Line 17, 18, 330, 331

Video Parameter

Differential gain < 1,5%
 Differential phase < 1,5°
 Group delay (-0,5 .. 4,43 MHz) < 50 ns
 Static nonlinearity < 3 %
 video frequency response ± 1 dB (10 Hz - 5 MHz, CCIR 18)
 S/N video, weighted (CCIR-rec.567-1) 1 channel typ. 64 dB
 2/3 channel typ. 62 dB
 2-T pulse K factor K < 1,2 %
 Test picture color bars

Audio Processing

Audio Decoder ISO 13818-3 MPEG-1 (L1/L2)
 MPEG-2 (L1/L2)
 ISO 639
 Audio language Mono / Stereo / Dual NICAM
 Audio format Manual / Auto
 Audio format switching

Audio Parameter

S/N audio (with color testbar) Standard B/G/D/K/I typ. 64 dB, weighted
 Standard L typ. 48 dB, weighted
 Frequency response ± 1,0 dB (40 Hz to 15 kHz)

RF Parameter

Output ports 2
 Channels per port 3
 Output impedance 75 Ohm
 Output frequency 45...862 MHz
 Output frequency window 32 MHz/port
 Output frequency steps 1 kHz
 Modulation VSB AM
 TV standards B / G / D / K / I / L / M
 Channel bandwidth 7 / 8 MHz
 Output level (each RF port) 117 dBµV (1 ch)
 113 dBµV (2 ch)
 111 dBµV (3 ch)
 Test port at each output -20 dB ± 1 dB
 Output level stability ± 1 dB
 Output return loss ≥ 14 dB (45 MHz) -1,5 dB / Octave
 Output level setting 0...30 dB (0,5 dB steps)
 Spurious (Outside TV-Channels) 45...450 MHz typ. 66 dB
 450...862 MHz typ. 64 dB

Module General data

Size 100 x 220 mm
 Signaling 2 x operating led green/yellow/red
 Connectors GigE/Control/Power
 1 x CompactPCI Typ C
 Management 1 x RJ-45, 100BaseTX
 RF-Output 2 x F-connector
 Test-Output 2 x F-connector
 Operating voltage 12 VDC
 Power consumption < 26,2 W
 Operating temperature range 5°C...45 °C
 Nominal temperature range 15°C...35 °C
 Max. humidity non condensing 95 %
 EMV EN 50083-2

WISI Communications GmbH & Co. KG

Empfangs- und Verteiltechnik
 Wilhelm-Sihn-Strasse 5-7
 75223 Niefern-Oeschelbronn, Germany

Telefon +49 72 33-66-280 Fax -3 50
 export@wisi.de
 www.wisi.de



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