

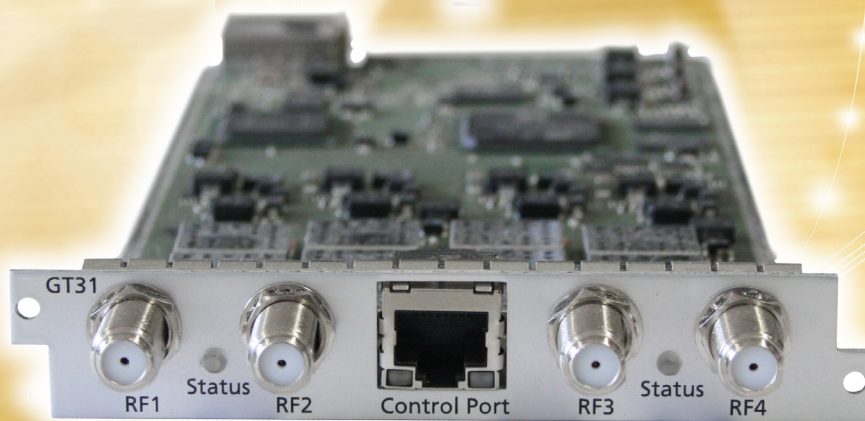
Tangram

Frontend DVB-S/S2/C/T/T2

GT 31 W



Product information



The GT 31 W module is part of the Tangram product portfolio. The GT 31 W 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
- 4 x DVB-S / -S2 / -T/T2 / -C input
- Gigabit Ethernet (SGMII) output for MPTS and SPTS signals
- Redundancy for video streaming output
- UDP & RTP over IP protocol, ProMPEG FEC (optional)
- Demultiplex MPEG-2 / MPEG-4 signals for SPTS transmission
- Handling of teletext and EPG data

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Tangram Frontend DVB-S/S2/C/T2 GT 31 W



- Configuration via Ethernet interface
- Separate Fast Ethernet port for management (optional)
- DiSEqC (optional)

RF inputs Satellite mode

Modulation scheme	DVB-S/S2
Impedance	75 Ohm
Frequency range	950...2150 MHz
Level range	45...90 dB μ V
DVB-S/S2 symbol rate	1...45 MBaud (<100 Mbit)
FEC inner code	LDPC (1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10)
Return loss	>12 dB
DiSEqC	DiSEqC 1.0
LNB power	13/18 V, 0.4 A max.

RF inputs Terrestrial mode

Modulation scheme	DVB-T/T2
Impedance	75 Ohm
Frequency range	43...1002 MHz
Level range	39...79 dB μ V
COFDM spectral	2 k and 8 k FFT
Guard interval	1/32, 1/16, 1/8, 1/4
FEC inner code	Conv., K=7, G=1/2, 2/3, 3/4, 4/5, 5/6, 7/8
DVB-T bandwidth	6, 7, 8 MHz
DVB-T2 bandwidth	1.7, 5, 6, 7, 8 MHz (and extended bandwidth)
Return loss	>18 dB @ 47 MHz >12 dB @ 862 MHz

RF inputs Cable mode

Modulation scheme	DVB-C
Impedance	75 Ohm
Frequency range	43...1002 MHz
Level range	49...90 dB μ V (QAM256)
DVB-C symbol rate	1...7.2 MBaud
QAM modulation scheme	16-, 32-, 64-, 128-, 256-QAM
Return loss	>18 dB @ 47 MHz >12 dB @ 862 MHz

Compliance

EN300421, EN302307, EN300744,
EN302755, EN300429,
Nordig unified ver 2.2.1, D-book 7.0

Control Ethernet port (management only)

Capability 100BASE-TX

Backplane

Interface SGMII (SerDes).
Protocol MPEG over RTP/UDP.
Communication protocol Unicast and Multicast, SPTS and MPTS
Capacity \leq 400 Mbps
PID-Filters The GT 31 supports blocking elementary pids in MPTS output.
The GT 31 supports remapping of pid numbers.

Bitrate mode

Remux CBR (optional VBR)
GT 31 can output up to 32 SPTS/MPTS simultaneously. Each SPTS/MPTS can be de-/remuxed from all inputs.

Mechanical/General

Signaling Multicolored LED's
RF connectors 4 x F-connector, female
Front ethernet connector RJ45
Backplane connector 1 x CompactPCI Typ C
Power consumption <25 W (12 W typical, without LNB)
Operating temperature 5 °C...45 °C

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