

Gemini G2414, compact Headend, transmodulator,  
4 x DVB-S/S2/S2x FTA transport streams  
to 4 x DVB-T or DVB-C multiplex



## Highlights

- 4 x inputs DVB-S/S2/S2X\* with loop-through function
- 4 x output multiplex DVB-T or DVB-C
- For free-to-air channels (FTA)
- Compact size
- Excellent performance
- Flex routing
- Excellent MER
- PID filtering  
Log protocols
- User-friendly and multilingual web interface
- Remote maintenance (remote programming via the Internet)

\* DVB-S2X: Enables reception of DVB-S2 multistream transponders



## Statement of Work.

The Fte maximal Gemini G2414 signal-transmodulator converts 4 x DVB-S/2/S2x FTA (Free to Air) transport streams to 4 x DVB-T or DVB-C multiplex, correspondingly 4 x SAT transponders with multiple channels can be converted to 4 x DVB-T or DVB-C multiplex signals.

Several channels (SD and HD) can be assigned per multiplex. The max. bandwidth of the multiplex is 55 MBit/s.

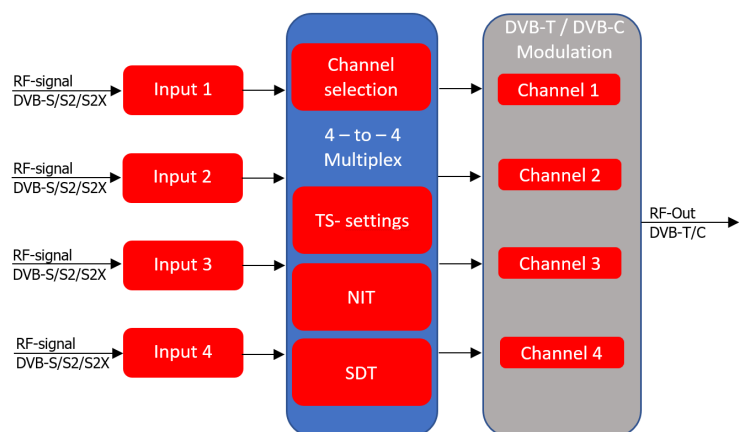
The transmodulator has a network connection (RJ45 socket). Programming is done via a web browser, remote access is also possible via the Internet. This remote access makes maintenance and service a breeze.

The DVB-T or DVB-C signals at the output can be easily integrated into a signal distribution system using standard signal splitters and feed switches.

The loop-through operation allows further transmodulators to be connected downstream.

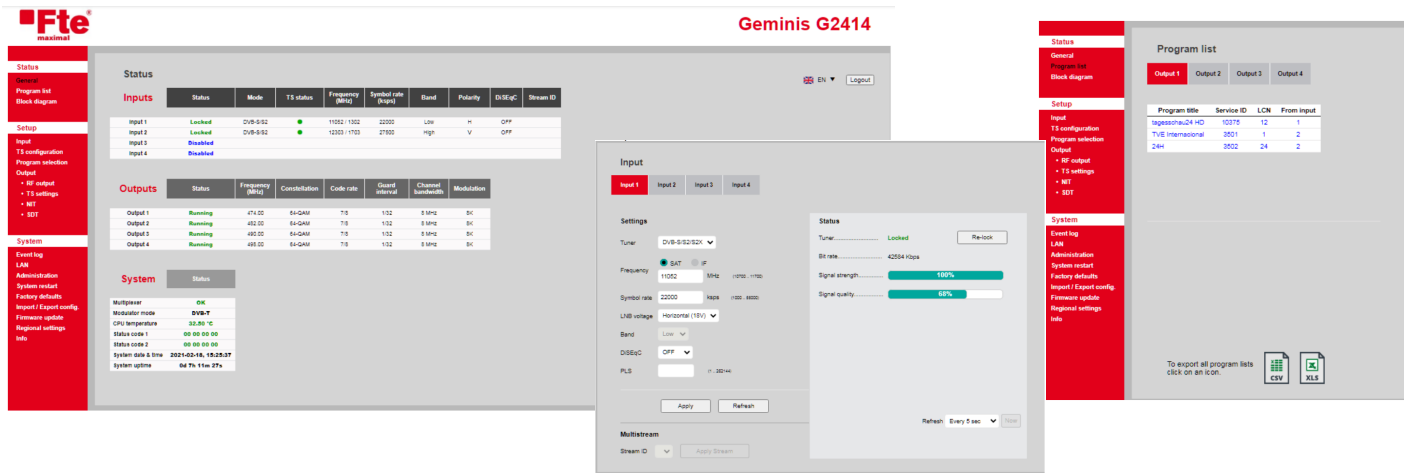


## Block-diagram



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4 x DVB-T oder DVB-C multiplex

## Simple user interface



## Technical data

Description	Compact headend - transmodulator Free To air (FTA) 4 x DVB-S/S2/S2x to 4 x DVB-T/ DVB-C
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### Input

Number of inputs	4
Tuner Loop	Yes
Connectors	F-connector, female 75 Ω
DVB-S	Symbol rate: 1-55 Mbits Roll off: 0,2, 0,25, 0,35 (automatic) FEC: 1/2, 2/3, 3/4, 5/6, 7/8 (automatic) Spectrum inversion: inverted and not inverted
DVB-S2	Symbol rate: QPSK: 1-55 MBaud/s / 8-PSK: 1-45 MBaud/s Roll off: 0,2, 0,25, 0,35 (automatic) FEC: QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 8-PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (automatic) Spectrum inversion: inverted and not inverted
DVB-S2X	Symbolrate: QPSK: 1-45 MBaud/s / 8-PSK: 1-30 MBaud/s Roll off: de 0 a 0,35 (automatic) FEC: QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 8/10 (automatic) 8-PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 (automatic) Spectrum inversion: inverted and not inverted
Frequency range	950-2150 MHz
Input level	44 dBμV - 84 dBμV / ( -65 dBm to -25 dBm)
LNB power	0V / 13V/ 18V/ 0-22kHz
Maximum LNB current	400 mA
Diseqc 1.0	Yes
Integrated multiplexor	Yes, allow routing from any input service to any output mux
Multistream support	Yes

### Output

Numbers of output	1
Connectors	F-Buchse 75 Ω
Number of output (muxed)	4
DVB-T	Frequency range: 110-950 MHz Mode: 2K/8K Bandwidth: 6, 7 & 8 MHz Constellation: QPSK, 16 QAM & 64 QAM Guard-Interval: 1/4, 1/8, 1/16, 1/32 FEC (code rate): 1/2, 2/3, 3/4, 5/6 & 7/8
DVB-C	Frequency range: 110-950 MHz Constellation: 16, 32, 64, 128 & 256 QAM Symbol rate: 1.-7.200 Mbd
Output level	90 dBμV / (-25 dBm )
Regulation	0-31.5 dB (step 0.5 dB)
MER	≥ 42 dB

### Other information

Power supply	12 V DC / 1.8 A
External PSU	100-240 V AC 50-60Hz / 12 V DC - 2.5 A
DC- IN jack connector	2,5 A 2 x Φ 2.1 mm
Power consumption (max)	23 W
Dimension	235 mm x 115 mm x 48 mm
Working temperature range	0-40 °C
Firmware-updateable	Yes
Article number	2002414
EAN Code	8436545306765

### LAN Interface (only for programming)

Programming	Via Webinterface
Supported languages	English, Spanish and French
Connector	RJ45
Transmission speed	100 Mbits
Standard	IEEE 802.3 10/100 Base-T