



# GTS-20020

# GTS-22022

## COFDM/COFDM transmodulators - FTA



GTS-20020

**DVB-T or DVB-C output standard:** selected by a software option.

**Easy programming:** GDS Configurator software connected to the USB port.

**Remultiplexing:** one output channel is available for the one input-model (GTS-20020); two frequency-adjacent output channels are associated to each input in the case of the two inputs-model (GTS-22022), with the possibility to remultiplex both inputs over a single output channel (software option).

**NIT/TSID rewriting:** it is possible to use original NIT and TSID service values or to assign custom values; this option is useful to distribute services from the same input transponder over two different output channels.

**Parental control:** specific services can be password-protected for age-limited access.

**Hotel mode:** LCN, PID, TSID and NIT values in the output channel can be fixed independently from the selected input services or input channel; this allows changing the distributed services with no need to tune again all TVs connected to the CATV distribution system.

**Password protection and settings export:** system configuration can be exported for backup and to replicate configuration on several modules; configuration access can be protected by a password.

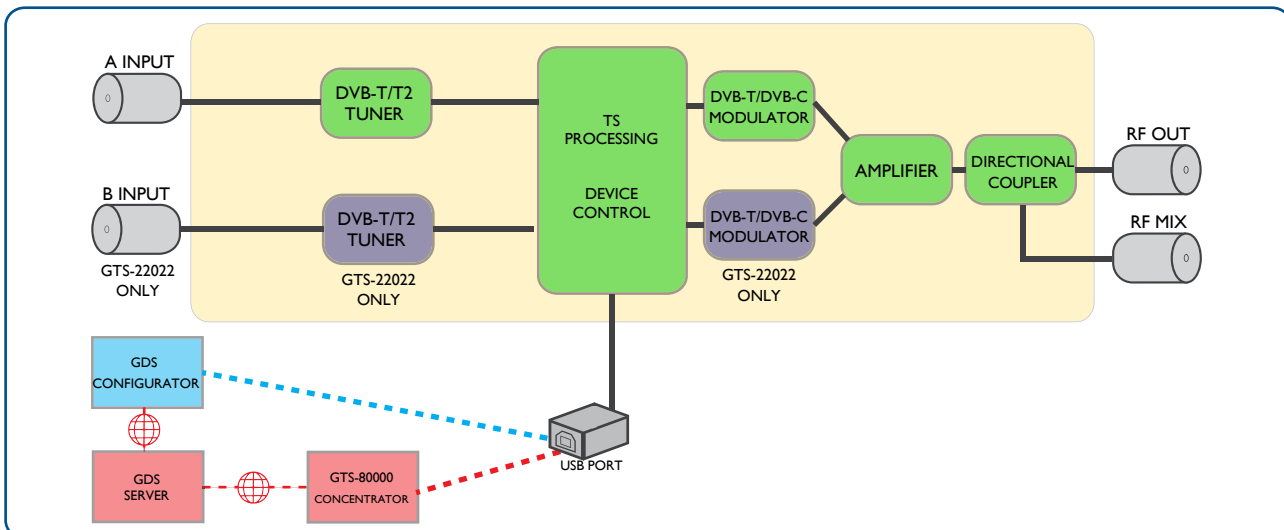
**Remote access:** monitoring, configuring and rebooting a GTS system can be accomplished through Internet network, using the special GTS-80000 device.

**Performance:** the GTS Series transmodulators boast 40+ dB MER.

**Modular system:** Thanks to DIN bar mounting, it is possible to combine different GTS modules to realize a fully custom CATV headend in an easy and cost-effective way.



GTS-22022



**DVB-T2**<sup>®</sup>  
**DVB-T**<sup>®</sup>  
**DVB-C**<sup>®</sup>

<b>INPUTS</b>	<b>DVB-T/T2</b>
Number of inputs	1 for GTS-20020 , 2 for GTS-22022 - with active loop-through (0 dB)
Common Interface (CI)	N/A
Input frequency	170÷230 MHz / 470÷862 MHz
Input level	42÷82 dBuV
Bandwidth	6÷8 MHz
Modulation	QPSK / 16-QAM / 64-QAM / 256-QAM
<b>MODULATOR SPECS</b>	<b>DVB-T</b>
FFT	2k
Constellation	QPSK / 16-QAM / 64-QAM
FEC	1/2; 2/3; 3/4; 5/6; 7/8
Guardia	1/4; 1/8; 1/16; 1/32
MER	> 40 dB (typical: 42 dB)
<b>MODULATOR SPECS</b>	<b>DVB-C</b>
Mapping	16-QAM / 32-QAM/64-QAM/128-QAM/256-QAM
Roll-off	0.12 - 0.15 - 0.18
Symbol rate	870÷7200 ksym/s
<b>OUTPUTS</b>	<b>DVB-T/DVB-C</b>
Number of outputs	1 with loop-through (-1,5 dB loss)
Frequency range	177.5÷858 MHz
Number of channels	1 for GTS-20020 , 2 adjacent or 1 with remultiplexing for GTS-22022
Channel bandwidth	7 MHz (VHF) / 8 MHz (UHF)
Spectrum inversion	optional
Output level	65÷85 dBuV
<b>OTHER SPECIFICATIONS</b>	
Connections	RF I/O: female type-F; management: USB type-B
Power	24 Vdc
Power consumption	10 W for GTS-20020 , 12 W for GTS-22022
Operative range	0÷40 °C
Dimensions	53x226x155 mm

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[www.gds-italy.com](http://www.gds-italy.com)

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*Hope to hear from you soon!*

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