

COFDM-COFDM Regeneration Equipment

TGT100

REF. 4026

- Product designed to correct and rebuild a poor quality COFDM signal back to Quasi Transmission Standard.
- Transport Stream processing.
- Remote mode.

TGT-100

Remote mode	Yes
Transport Stream (TS) processing	Yes (See below)

Input Section (COFDM)

Standard	EN 300 744	
Input frequencies	MHz	174 – 230 and 470 – 862
Bandwidth	MHz	7, 8
Mode (automatic detection)	2K, 8K	
Cosntellation (automatic detection)	QPSK, 16QAM, 64QAM	
Hierarchy	High priority, Low priority	
Input level (64QAM, code rate: 2/3)	dB μ V	35 – 100
Input loop-through gain	dB	0,5 (\pm 1)
Guard interval (automatic detection)	1/4, 1/8, 1/16, 1/32	

Remodulation Section (COFDM)

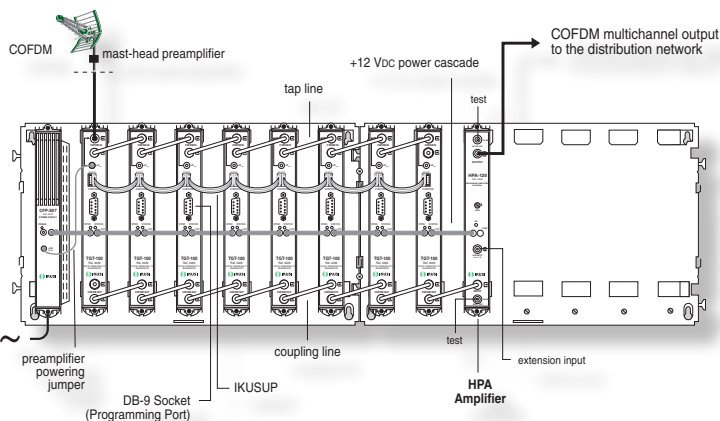
Data processing	EN 300 744	
Operation modes	2K, 4K (DVB-H), 8K	
Constellation	QPSK, 16QAM, 64QAM	
Code rate	1/2, 2/3, 3/4, 5/6, 7/8	
Guard Interval	1/4, 1/8, 1/16, 1/32	
In-depth interleaving (only on DVB-H)	Applicable (on 2K and 4K)	
MER (Modulation Error Ratio)	dB	> 38 (typ.)

FUNCTIONS OF THE TS PROCESSING

- Bit Rate adaptation with PCR restamping
- Adaptation of NIT table
Adaptation to the particular adjustments of the headend is automatic. Name and identifier of the new network can be edited.
- Service and CA blockade
Blockade is at service level and at conditional access level.
Automatic regeneration of PAT, SDT and CAT tables.
- TS monitoring
Usage level of the Transport Stream —percentage of null packets— is presented along the programming process.

The module is packed with:

- 2 F plug bridges, 64 mm length, for input tap line and output coupling line.
- 1 DC plug bridge, 53 mm length, for connection of +12 Vdc voltage.



Data Sheet



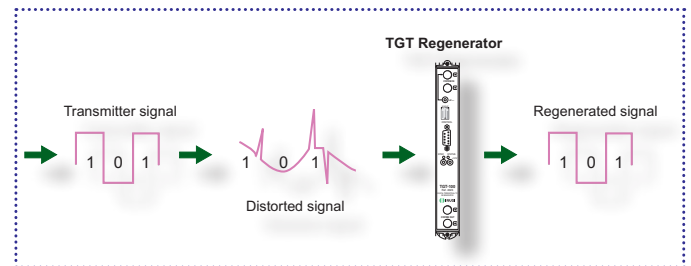
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Output Section (COFDM)

Selectable output channel located between:	MHz	47 – 862
Bandwidth	MHz	5 (DVB-H), 6, 7, 8
Adjustable output level	dB μ V	65 to 80
Frequency stability	ppm	$\leq \pm 10$
Output loop-through loss	dB	1.1
Spurious in band	dBc	< -50
Broadband noise ($\Delta B=8$ MHz)	dBc	< -75

General

Supply voltage	VDC	+12
Consumption	mA	600
Operating temperature	$^{\circ}$ C	0 – +45
Input RF connector type	(2x) female F	
Output RF connector type	(2x) female F	
DC connector type	banana socket	
Programming interface	RS 232/DB-9	
IKUSUP bus connector	(2x) 4-pin socket	
Dimensions	mm	230 x 195 x 32



— Example of «TGT» headend for eight COFDM-modulated channels.

Ángel Iglesias, S.A.
Paseo Miramón, 170
20009 San Sebastián, Spain
Tel. +34 943 44 88 00

Fax +34 943 44 88 20
ikusi@ikusi.com
www.ikusi.com

