Twin DVBS2 CI – DVBT/C transmodulator
3DG-2S2-2T

3DGFLEX

The new twin DVB-S2 CI-COFDM, part of the brand new 3DGFLEX range which allows you to simultaneously receive programs from up to 3 different satellite transponders (HD or SD).

Generating 2 "ad-Hoc" muxes giving the installer the flexibility to choose the contents to be distributed. Fully manageable parameters for both muxes and individual programs (LCN, SID, PDSD, NIT, …).The smart cabinet is capable of powering and programming up to 6 individual modules.

Rev.1 (fw upgrade) allows to select via sw the standard output in DVB-T or DVB-C.
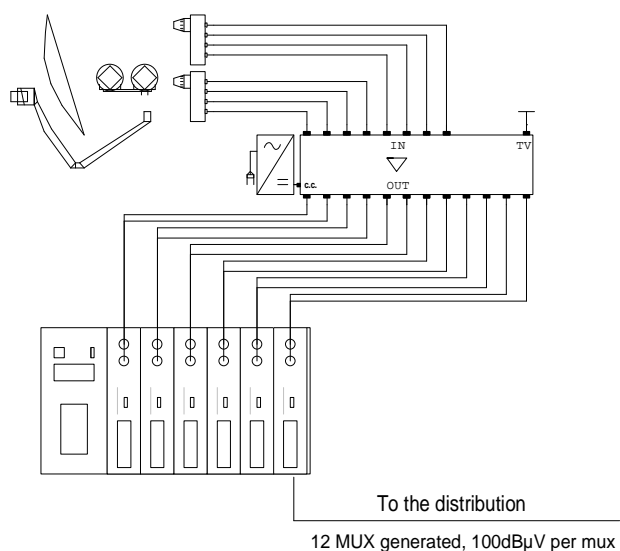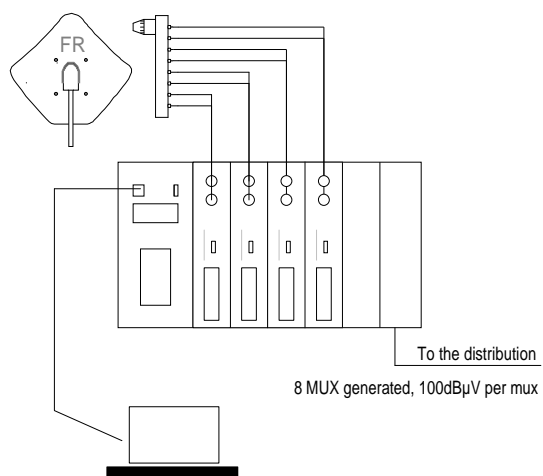
Main Specifications

- **Twin Philosophy**: 2 SAT input (DVB-S2), 2 indipendent output mux, 2 Common Interface.

- **"Mux-ad-Hoc":** you can create a mux with the choosen programs from up to 3 satellite transponders and manage all the descriptor parameters of each mux (ONID, TSID, NetID,…) and each program inside the mux (LCN, SID, PID, Program name..).

- **Back panel loop-thorugh** of the signals from previous modules.

- **ARP 2.0** = Automatic Recovery Procedure to save the higher priority programs and guarantee Continuity of Service when bit rate overflows occurr. All the program are sequentially restored when the global bit rate returns within the limits.

- **AUTO REMAPPING function**: you can change in real time the program inside the mux without rescanning all the TV set along the network.

- **WEB interface included in each module;** basic setup available by on board keyboard.

- **Remote management included** to monitor and edit the set up of the headened remotely.

- **USB Port** to upload/download pre-setted set up or for the firmware uppgrade.

- **DVB-T/DVB-C output selectable via sw**: one product to fit every coax network distribution.

		3DG-2S-ST	
Fracarro code		283157	
Front-End			
N°input	N°	2	
Input frequency	MHz	950÷2150	
Bandwidth	MHz	36	
Input level	dBµV	48÷80	
Input step tuning		1MHz	
LNB control		0/14/18VDC, 0/22KHz, DiSEqC 1.0	
Demodulation		DVB-S2 (8-PSK, QPSK), DVB-S (QPSK)	
FEC		1/2, 2/3, 3/4, 5/6, 7/8, AUTO	
Symbol rate	MS/sec	2 ÷ 45 (DVB-S/ DVB-S2)	
AFC Range		-4 ÷ +4MHz	
Modulation		**DVB-T**	**DVB-C**
N°generated mux	N°	2	2
Trasmission standard		DVB-T (COFDM)	DVB-C
Bandwidth	MHz	6, 7, 8	(depends on the output SR that was set)
Carriers		2k, 8k	-
Modulation		QPSK, 16-QAM, 64-QAM	16QAM, 32 QAM, 64QAM, 128QAM, 256QAM
Guard interval		1/4, 1/8, 1/16, 1/32	-
FEC		1/2, 2/3, 3/4, 5/6, 7/8	Reed Solomon (204, 188)
Symbol Rate	Msymb	-	1000 to 7000
Spectrum		Normal/Inverted	
Operating Mode		Normal, Single Carrier	
RF Output			
Output frequency	MHz	111÷862	
Output channels		S2÷E69	
Output step tuning	KHz	10	
Max. output level	dBµV	102	
Output level adjustment	dB	0÷15	
Flatness	dB	± 1.5	
Output MER	dB	≥ 36	
Spurious rejection	dBc	< -40	

		3DG-BOX
Fracarro code		283156
Max. number of modules	N°	6
RF mix input	MHz	47÷862
RF insertion loss	dB	2.5
Mains Supply	Vac, Hz	184-264, 50/60
Power consumption	W	105 (no CAM)
Connectors	tipo	F female (RF), RJ45 (programming and remote monitoring), USB (fw upgrade)
Dimensions (L.x W.x H)	mm	415 x 260 x 265
Opertaing temperature	°C	-10 ÷ +50 (no CAM)
Compliant		EN50083-2, EN60065

Installation Example

To the distribution

8 MUX generated, 100dBμV per mux

The headend can contain up to 6 modules which have 2 independent inputs each. Remote supply for LNB is available (max 400mA @ 18V).

All the settings can be made by a very easy intergated WEB INTERFACE.

To the distribution

12 MUX generated, 100dBμV per mux

It's possible to manage DisEqC commands via sw when connected to a multiswitch port.

3DGFLEX can generate up to MUX (DVB-T or DVB-C), 100dBμV each.