

Twin DVB T2/T/C CI – DVBT/C transmodulator

3DG-2T2-2T

3DGFLEX



Fracarro's twin DVB T2/T/C CI - DVBT/C, part of the 3DGFLEX range that enables you to simultaneously receive programs from up to 3 different HD or SD sources (two independent DVB-T2/DVB-T or DVB-C tuners and one transport stream available through the back panel) from an aerial or cable network.

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

The agile output allows you to select your required standard in either DVB-T or DVB-C via the built in software

Main Specifications (*)

- **Twin Philosophy:** 2 DVB-T2/DVB-T or DVB-C input, 2 independent DVB-T/DVB-C outputs, 2 Common Interfaces.
- **"Mux-ad-Hoc":** you can create a mux with the chosen programs from up to 3 different sources (two independent RF inputs and from the back panel) 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-through** of signals from previous modules.
- **ARP 2.0** = Automatic Recovery Procedure to protect the highest priority programs, guaranteeing continuity of service should a bit rate overflow occur. All the programs are sequentially restored as the global bit rate returns to within typical system parameters.
- **AUTO REMAPPING function:** you can change a program in real time within the generated mux without the need to retune all the TV sets in the system.
- Automatic **DVB-T2/DVB-T** digital terrestrial input demodulation tuning.
- **DVB-T2/DVB-T or DVB-C** RF input tuning demodulation can be selected during the setup
- **DVB-T/DVB-C agile** output modulation standard can be selected via the built-in software: one product fits any coaxial network distribution.
- **WEB interface included in each module;** basic setup available using the built in control panel.
- **Remote management** to monitor and edit the set up of the headend remotely if required.
- **USB Port** to upload/download pre-configured settings or to upgrade the firmware.

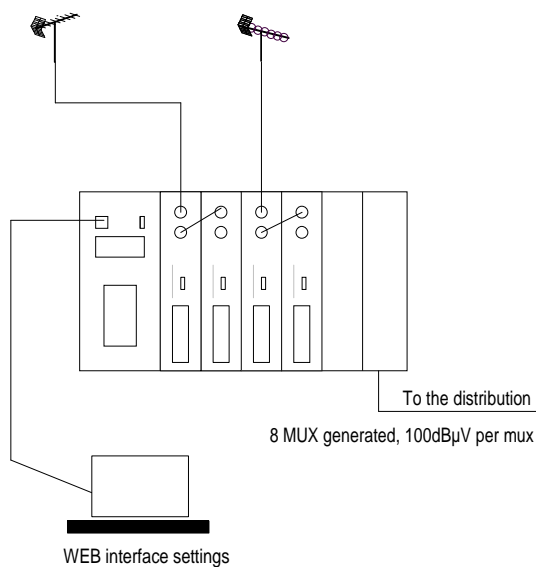
(*) Definitive specifications may change without notice.

		3DG-2T2-2T (*)	
Fracarro code		283159	
Front-End			
No. of inputs		2	
Input frequency	MHz	174-862	
Remote power supply	V, mA	12, 100 (for each input)	
Bandwidth	MHz	6, 7, 8	
Demodulation		DVB-T2/DVB-T or DVB-C (selectable via setup)	
		DVB-T2/DVB-T	DVB-C
Demodulation parameters		DVB-T2 (EN 302755) DVB-T (EN 300744)	DVB-C (EN 300429)
Input level	dBµV	40 - 85	55 - 85
AFC range	KHz	±400	±100
Input step tuning	KHz	50	
Output Modulation			
No. of generated muxes	No.	2	
Transmission standard		DVB-T	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, 32QAM, 64QAM, 128QAM, 256QAM
Guard interval		1/4, 1/8, 1/16, 1/32	-
FEC		1/2, 2/3, 3/4, 5/6, 7/8	RS (204,188)
Symbol rate	MS/s	-	1000 to 6999
Spectrum		Normal/Inverted	
RF Output			
Output frequency	MHz	111 - 862	
Output channels		S2 - E69	
Output step tuning	KHz	250	
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	No.	6	
RF mix input	MHz	47 - 862	
RF insertion loss	dB	2.5	
Mains supply	Vac, Hz	184-264, 50/60	
Typical power consumption	W	105 (with CAM)	
Connectors		F female (RF), RJ45 (programming and remote monitoring), USB (firmware upgrade)	
Dimensions (L X W X H)	mm	415 x 260 x 265	
Operating temperature	°C	-10 to +50 (without CAM)	
Compliant		EN50083-2, EN60065	

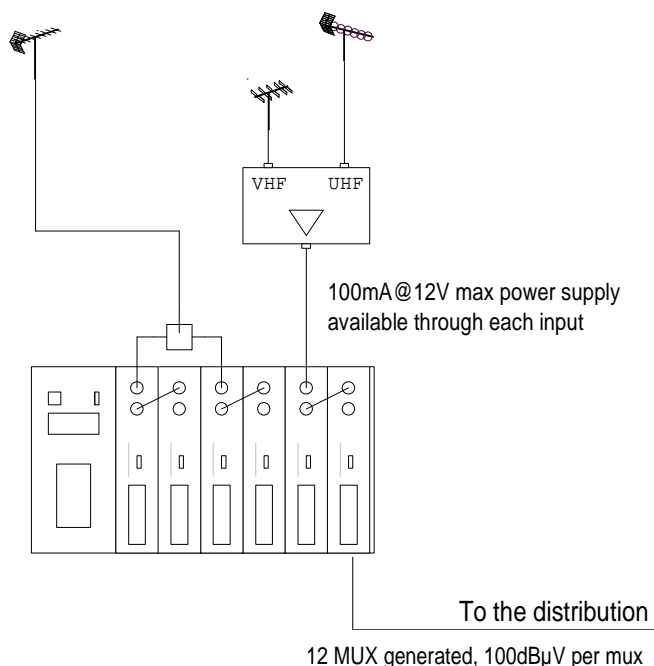
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Installation Examples



The headend can contain up to 6 modules which have 2 independent inputs each.

All settings can easily be made using the integrated WEB INTERFACE.



3DGFLEX can generate up to 12 DTT MUXES (more than 60 SD programs, free to air or encrypted), 100dBuV each.

Remote supply for TV masthead amplifier is available (max 2 x 100mA @ 12V).

