Twin ASI – DVBT/C transmodulator
3DG-2ASI-2T

3DGFLEX

Fracarro's twin ASI - DVBT/C module, part of the 3DGFLEX range, allows you to simultaneously receive programs from up to 3 different sources (two independent ASI sources connected through the BNC front connectors and one transport stream available through the back panel).

This new product is capable of handling two separate ASI streams that are generated from a professional digital encoder unit (e.g. SIG7404H – up to four Audio/Video sources from an MPEG2 encoder) or as an ASI external stream typically created by the CATV broadcaster.

This system gives the installer the ability to generate two "ad-Hoc" muxes and the flexibility to choose the contents that will be distributed throughout the coaxial network.

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 ASI module is used in conjunction with the 3DG-BOX. This unit can house up to 6 modules from the 3DG-FLEX range providing power and a user interface for programming. The agile output enables you to select your required standard in either DVB-T or DVB-C via the built in software.

Main Specifications (*)

- **Twin Philosophy**: 2 x ASI inputs, 2 independent DVB-T or DVB-C RF multi band output modulators.

- **"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 adjacent module.

- **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 bitrate 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.

- **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.
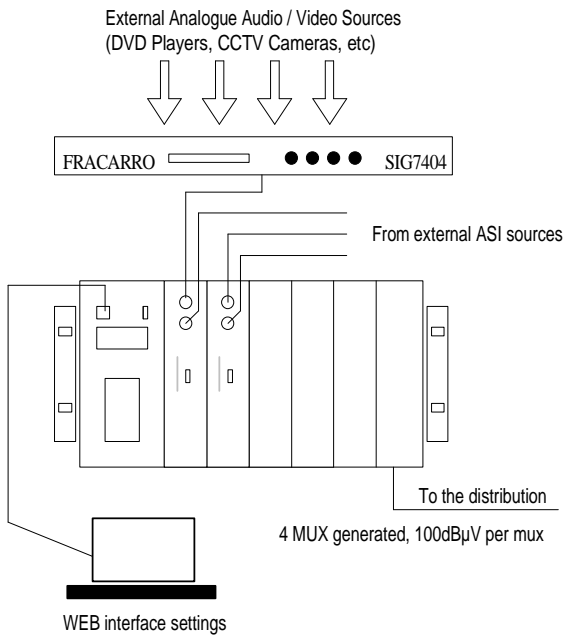
(*) Definitive specifications may change without notice.

		3DG-2ASI-2T (*)	
Fracarro code		283160	
Inputs			
No. of inputs		2 x BNC (independent)	
Impedence	Ohm	75	
Maximum bitrate	Mbit/s	214	
Output Modulation			
No. of generated muxes	No.	2	
Transmission standard		DVB-T	DVB-C
Bandwidth	MHz	6, 7, 8	(Depends on the SR output)
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	
Operating mode		Normal/single carrier	
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 (min)	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
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
Compliant		EN50083-2, EN60065

(*) Definitive specifications may change without notice.

External Analogue Audio / Video Sources
(DVD Players, CCTV Cameras, etc)

FRACARRO ● ● ● ● SIG7404

From external ASI sources

To the distribution

4 MUX generated, 100dBμV per mux

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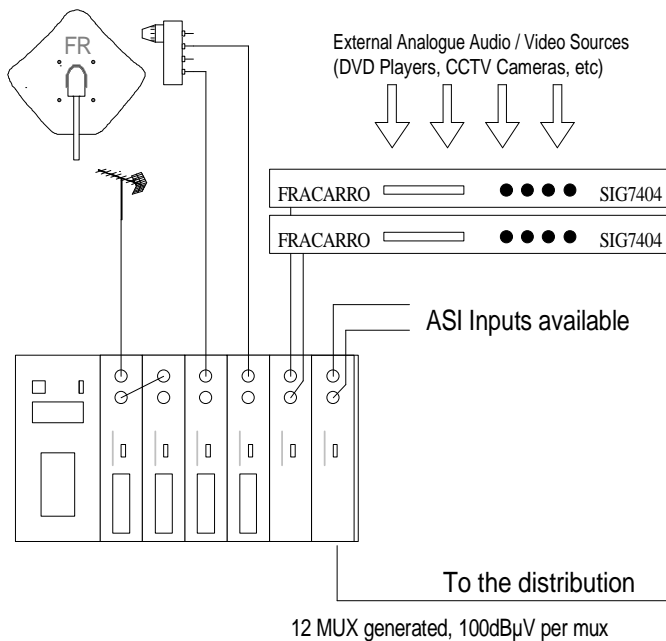
The headend can contain up to 6 modules which have 2 independent inputs each.

All settings can easily be configured using the integrated WEB BROWSER INTERFACE.

The 3DG-2ASI-2T module allows you to re-modulate as either a DVB-T or DVB-C signal even from an analogue auxiliary Audio/Video source that has been converted to a digital signal by using an external MPEG encoder (eg. SIG7404H).

FR

External Analogue Audio / Video Sources
(DVD Players, CCTV Cameras, etc)

FRACARRO ● ● ● ● SIG7404

FRACARRO ● ● ● ● SIG7404

ASI Inputs available

To the distribution

12 MUX generated, 100dBμV per mux

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

The 3DGFlex enables the installer to create a bespoke configuration selecting programs from various sources including satellite, aerial and profession ASI encoders in either an HD or SD format.