912 TV-SAT AND MODULATOR EQUIPMENT

TT-312 FRANSAT MODULE

Code : **9120214**

Model : **TT-904**

Description
Transmodulator for Fransat encrypted satellite digital television services to terrestrial digital television with DiSEqC. Each module selects the services of a DVB-S/S2 satellite tr ansponder and incluyes them in one or two DVB-T channels. Equipped with a Common Interface slot, a Fransat Pro CAM and subscriber s card. Programmable using PC software and a wireless programmer.

Applications
Collective terrestrial digital televisi on installations where the aim is to distribuye Fransat encrypted satellite te levision services while avoiding the installation of satellite receiver s. Allows channels from different satellites to be selected thaks to its DiSEqC control. Compatible with all collective TV installations since the channels can be distributed throughout the terrestrial band.

Characteristics
Automatic error-detection system which greatly reduces maintenance work on the installation. Generated output channels of oustanding quality. Zamak chassis with metal side panels. F-type connectors. The equipment can be assembled quickly and easily.

CODE			9120213
MODEL			TT-312
TV system			DVB-S / DVB-S2 → DVB-T/DVB-H EN 300421 EN 302307 EN 300744
Connection			F Female
Number of inputs			1
Number of output channels			1 ó 2 (adjacent)
DVB-S/S2 receiver			
Frequency range	MHz		950 – 2150
Frequency step	KHz		1
LNB power supply	V---		DiSEqC 2.0 +13/+18 (0/22KHz)
	mA		350 max.
Symbol rate	Mbaud		1..45
Diplexing through loss			1,0±0,2
DVB-S2 receiver			
Input level	dBµV		45..95
	dBm		-63..-13
F.E.C. QPSK			Auto, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 DVB: EN 302307
F.E.C. 8PSK			Auto, 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 DVB: EN 302307
Roll-Off	dB		0,35/0,25/0,20
DVB-S receiver			
Input level	dBµV		40..95
	dBm		-68..-13
F.E.C. QPSK			Auto, 1/2, 2/3, 3/4, 5/6, 7/8 DVB: EN 302307

Conditional access		
Standard		DVB-CI EN 50221 Common Interface
Compatibility		Viaccess, Mediaguard, Videoguard, Seca, Betacryp, Nagravision, Irdeto, Cryptoworks, Conax

COFDM modulator		
TV system		DVB-T/DVB-H EN 300744
Output offset	MHz	-1/6, -1/8, 0, +1/8, +1/6 DVB-T
Mode		2K, 8K, 4K (DVB-H) DVB: EN 300744
Modulation		QPSK, 16QAM, 64QAM DVB: EN 300744
F.E.C.		1/2, 2/3, 3/4, 5/6, 7/8 DVB: EN 300744
Guard interval		1/2, 1/8, 1/16, 1/32 DVB: EN 300744
MER	dB	39±2,0

RF output		
Frequency range	MHz	47-862
Frequency step	MHz	0,25
Output level	dBµV	80±2,0
Output level adjust	dB	20
Bandwidth per channel	MHz	8, 7, 6, 5 DVB-H
Through loss in the mixture	dB	0,9±1

General features				
	V	+3.3	+5.2	+12
	mA	1300	550+CAM	55+LNB
Operating T close to equipment	ºC	-10..+65		
Room T with/without fan	ºC	-10..+55/+45		
Protection index		IP 30		
Units per packing		1		
Packing weight	Kg	1,4		
Packing dimensions	mm	265 x 165 x 40		