912 TV-SAT AND MODULATOR EQUIPMENT

TT-211 FRANSAT MODULE



Code : **9120175**

Model : **TT-901**

Description
Transmodulator of encrypted satellite digital television services to terrestrial digital television. Each module selects the services of a DVB-S/S2 satellite transponder and includes them in a DVB-T channel. Equipped with a Common Interface slot for insertion of the CAM and the subscriber's card. Programmable using PC software and a wireless programmer.

Applications
Collective terrestrial digital television installations where the aim is to distribute encrypted satellite television services while avoiding the installation of satellite receivers. 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 channel of outstanding quality. Does not include the CAM or the decoder card. Zamak chassis with metal side panels. F-type connectors. The equipment can be assembled quickly and easily.

CODE		9120147
MODEL		TT-211
TV system		DVB-S / DVB-S2 ⟶ DVB-T/DVB-H EN 300421 EN 302307 EN 300744
DVB-S/S2 receiver		
Frequency range	MHz	950 - 2.150
Frequency step	KHz	1
LNB power supply	V⎓	+12
	mA	350 máx
Symbol rate	Mbaud	1..45
Diplexing through loss	dB±TOL	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 300421
Conditional access		
Standard		DVB-CI: EN 50221 Common Interface
Compatibility	MHz	Viaccess, Mediaguard, Videoguard, Seca, Betacryp, Nagravision, Irdeto, Cryptoworks, Conax

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COFDM modulator				
TV system		DVB-T / DVB-H DVB: 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		1/4, 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		
Ouput level adjust	dB	20		
Bandwidth	MHz	8, 7, 6, 5 DVB-H		
Through loss in the mixture	dB	0,9 ±0,1		
General features				
Power supply	V⎓	+3,3	+5,2	+12
	mA	1200	390+CAM	70+LNB
Operating T close to equipment		-10..+65		
Room T with/without fan		-10..+55/+45		
Protection index		IP30		
Units per packing		1		
Packing weight	Kg	1,4		
Packing dimensions	mm	270 x 170 x 38		