912 TV-SAT AND MODULATOR EQUIPMENT

FRANSAT PRO SYSTEM 6XHD+FR3 2XCAM 1XCARD

Code : **9120235**

Model : **TT-910**

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 max
Symbol rate	Mbaud	1..45
Diplexing through loss	dBsTOL	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

CODE		9120147		
MODEL		TT-211		
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	

CODE		9120201
MODEL		TT-411
TV system		DVB-S / DVB-S2 → DVB-T / DVB-H EN 300421 EN 302307 EN 300744
Connection		F female
Number of inputs		1 with duplexing or 2 independents
DVB-S/S2 receiver		
Frequency range	MHz	950 - 2.150
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	dBsTOL	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		Viaccess, Mediaguard, Videoguard, Seca, Betacryp, Nagravision, Irdeto, Cryptoworks, Conax

CODE		9120201		
MODEL		TT-411		
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	1600	320+CAM	40+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	

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 à 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	
Roll-Off		dB	0,35	
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 par 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		°C	-10..+65		
Room T with/without fan		°C	-10..+55/+45		
Protection index			IP 30		
Units per packing			1		
Packing weight		Kg	1,4		
Packing dimensions		mm	265 x 165 x 40		

CODE		9120093
MODEL		PA-720
TV System		AM-TV / DVB-T / DVB-C
Number of inputs		1
Frequency range	MHz	40 - 894
Gain	dB±TOL	44 ±1,0
Gain adjustment	dB	15
Output level	dBµV	119 DIN 45004B 116 (IMD3 - 60 dB) 110 (IMD2 - 60 dB) 103 (CTB - 60 dB) 103 (CSO - 60 dB) 104 (XMOD - 60 dB)
Output test point	dB±TOL	-30 ±1,0
Extension input loss	dB±TOL	0 ±2,0
Noise figure	dB	35 ±0,5
Return loss	dB	>14 - 1.5 / eighth >10
Chroma-luminance delay	ns	<10
Connectors		F female
Power supply	V⎓	+24
	mA	320
Operating temperature	ºC	-10..+45
Room temperature with/ without fan	ºC	-10..+55/+45
Protection index		IP 20C
Units per packaging		1
Packing weight	Kg	1.16
Packing dimensions	mm	265 x 165 x 40

CODE		9120046				9120168			
MODEL		FA-310				FA-312			
Output voltage	V⎓	+3.3	+5.2	+12.0	+24	+3.3	+5.2	+12.0	+24
	mA	5500	2500	1500	500	10000	5000	1500	500
Peak to peak ripple voltage	mV	>50				100			
Mains voltage	V~	230 ±20% 50/60 Hz		240 +15% 50/60 Hz -20% 50/60 Hz		90..264 50/60 Hz			
	W	72				85			
Operating temp. close to equipment	ºC	-10..+65							
Room tmperature with/ without fan	ºC	-10..+55/+45							
Protection index		IP 20C							
Units per packaging		1							
Packing weight	Kg	1.43				1.65			