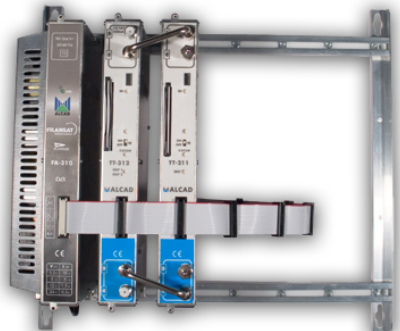


912 TV-SAT AND MODULATOR EQUIPMENT

912-TT FRANSAT SYSTEM 3XHD



Code : **9120231**

Model : **TT-909**

Description

Transmodulateur des services encryptés de télévision numérique satellite à télévision numérique terrestre. Chaque module sélectionne les services encryptés d'un transpondeur satellite en DVB-S/S2 et les inclut dans un canal en DVB-T. Dispose d'une fente d'interface commune pour l'insertion de la CAM et la carte d'abonné. Programmable à l'aide du logiciel PC et d'un programmeur sans fil. Applications Installations collectives de télévision numérique terrestre, où l'on souhaite distribuer les services encryptés de télévision satellite sans avoir à installer des récepteurs de satellite.

Compatibles avec toutes les installations collectives de télévision puisque les canaux peuvent être distribués dans toute la bande terrestre.

Caractéristiques Système automatique de détection d'erreurs qui réduit considérablement l'entretien de l'installation. Canal généré d'une qualité exceptionnelle. N'inclut pas la CAM ni la carte décodeur . Châssis de zamak avec panneaux latéraux métalliques. Connecteurs F. Montage de l'équipement facile et rapide.

CODE		9120147
MODEL		IT211
TV system		DVB-S / DVB-S2 → DVB-T / DVB-H ITU-T Recommendation → ITU-T Recommendation
DVB-S2 receiver		
Frequency range	MHz	950 - 2150
Frequency step	MHz	1
UNB power supply	V _{DC}	+12
UNB power supply	mA	350 max
Symbol rate	Mbaud	1.45
Dispensing through loss	(dB)TOL	1.0 ±0.2
DVB-S2 receiver		
Input level	dBV	45 - 95
Input level	dBm	-63 - 13
F.E.C. QPSK		Auto: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 ITU-T Recommendation
F.E.C. BPSK		Auto: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 ITU-T Recommendation
Roll-Off	dB	0.35/0.25/0.20
DVB-S receiver		
Input level	dBV	40 - 95
Input level	dBm	-68 - 13
F.E.C. QPSK		Auto: 1/2, 2/3, 3/4, 5/6, 7/8 ITU-T Recommendation
Conditional access		
Standard		DVB-CI (EN 50221) Common Interface
Compatibility		Vuocom, Medagrand, Videogrand, Seco, Netcopy, Negronion, Idetia, Cryptowork, Conax

CODE		9120147
MODEL		IT211
COFDM modulator		
TV system		DVB-T / DVB-H ITU-T Recommendation
Output offset	MHz	-1/6, -1/8, 0, 1/8, 1/6
Mode		8K, 16K, 48K, 96K, 192K ITU-T Recommendation
Modulation		QPSK, 16QAM, 64QAM ITU-T Recommendation
F.E.C.		1/2, 2/3, 3/4, 5/6, 7/8 ITU-T Recommendation
Guard interval		1/4, 1/8, 1/16, 1/32 ITU-T Recommendation
MER	dB	29 ±0.5
RF output		
Frequency range	MHz	47-862
Frequency step	MHz	0.25
Output level	dBV	80 ±0.1
Output level offset	dB	20
Bandwidth	MHz	8, 7, 6, 5 MHz
Through loss in the system	dB	0.9 ±0.1
General features		
Power supply	V _{DC}	+3.3 +5.2 +12
Operating T close to equipment	mA	1200 350±50mA 75±10W
Room T with/without fan	°C	-10...+55 -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		IT211
TV system		DVB-S / DVB-S2 → DVB-T / DVB-H ITU-T Recommendation → ITU-T Recommendation
Connection		F Female
Number of inputs		1 with dispensing or 2 independent
DVB-S2 receiver		
Frequency range	MHz	950 - 2150
Frequency step	MHz	1
UNB power supply	V _{DC}	DVB-C 2.0 +13 / +18 (D/220Hz)
UNB power supply	mA	350 max
Symbol rate	Mbaud	1.45
Dispensing through loss	(dB)TOL	1.0 ±0.2
DVB-S2 receiver		
Input level	dBV	45 - 95
Input level	dBm	-63 - 13
F.E.C. QPSK		Auto: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 ITU-T Recommendation
F.E.C. BPSK		Auto: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 ITU-T Recommendation
Roll-Off	dB	0.35/0.25/0.20
DVB-S receiver		
Input level	dBV	40 - 95
Input level	dBm	-68 - 13
F.E.C. QPSK		Auto: 1/2, 2/3, 3/4, 5/6, 7/8 ITU-T Recommendation
Conditional access		
Standard		DVB-CI (EN 50221) Common Interface
Compatibility		Vuocom, Medagrand, Videogrand, Seco, Netcopy, Negronion, Idetia, Cryptowork, Conax

CODE		9120201
MODEL		IT211
COFDM modulator		
TV system		DVB-T / DVB-H ITU-T Recommendation
Output offset	MHz	-1/6, -1/8, 0, 1/8, 1/6
Mode		8K, 16K, 48K, 96K, 192K ITU-T Recommendation
Modulation		QPSK, 16QAM, 64QAM ITU-T Recommendation
F.E.C.		1/2, 2/3, 3/4, 5/6, 7/8 ITU-T Recommendation
Guard interval		1/4, 1/8, 1/16, 1/32 ITU-T Recommendation
MER	dB	29 ±0.5
RF output		
Frequency range	MHz	47-862
Frequency step	MHz	0.25
Output level	dBV	80 ±0.1
Output level offset	dB	20
Bandwidth	MHz	8, 7, 6, 5 MHz
Through loss in the system	dB	0.9 ±0.1
General features		
Power supply	V _{DC}	+3.3 +5.2 +12
Operating T close to equipment	mA	1600 350±50mA 40±10W
Room T with/without fan	°C	-10...+55 -10...+55/±45
Protection index		IP30
Units per packing		1
Packing weight	kg	1.4
Packing dimensions	mm	270 x 170 x 38

CODE		9120210
MODEL		IT212
TV system		DVB-S / DVB-S2 → DVB-T / DVB-H ITU-T Recommendation → ITU-T Recommendation
Connection		F Female
Number of inputs		1 & 2 (dependent)
DVB-S2 receiver		
Frequency range	MHz	950 - 2150
Frequency step	MHz	1
UNB power supply	V _{DC}	DVB-C 2.0 +13 / +18 (D/220Hz)
UNB power supply	mA	350 max
Symbol rate	Mbaud	1.45
Dispensing through loss	(dB)TOL	1.0 ±0.2
DVB-S2 receiver		
Input level	dBV	45 - 95
Input level	dBm	-63 - 13
F.E.C. QPSK		Auto: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 ITU-T Recommendation
F.E.C. BPSK		Auto: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 ITU-T Recommendation
Roll-Off	dB	0.35/0.25/0.20
DVB-S receiver		
Input level	dBV	40 - 95
Input level	dBm	-68 - 13
F.E.C. QPSK		Auto: 1/2, 2/3, 3/4, 5/6, 7/8 ITU-T Recommendation
Roll-Off	dB	0.35
Conditional access		
Standard		DVB-CI (EN 50221) Common Interface
Compatibility		Vuocom, Medagrand, Videogrand, Seco, Netcopy, Negronion, Idetia, Cryptowork, Conax

CODE		9120210
MODEL		IT212
COFDM modulator		
TV system		DVB-T / DVB-H ITU-T Recommendation
Output offset	MHz	-1/6, -1/8, 0, 1/8, 1/6
Mode		8K, 16K, 48K, 96K, 192K ITU-T Recommendation
Modulation		QPSK, 16QAM, 64QAM ITU-T Recommendation
F.E.C.		1/2, 2/3, 3/4, 5/6, 7/8 ITU-T Recommendation
Guard interval		1/4, 1/8, 1/16, 1/32 ITU-T Recommendation
MER	dB	29 ±0.5
RF output		
Frequency range	MHz	47-862
Frequency step	MHz	0.25
Output level	dBV	80 ±0.1
Output level offset	dB	20
Bandwidth per channel	MHz	8, 7, 6, 5, 4, 3 MHz
Through loss in the system	dB	0.9 ±0.1
General features		
Power supply	V _{DC}	+3.3 +5.2 +12
Operating T close to equipment	mA	1300 350±50mA 55±10W
Room T with/without fan	°C	-10...+55 -10...+55/±45
Protection index		IP30
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 $\overline{---}$	+24	
	mA	320	
Operating temperature	°C	-10..+45	
Room temperature with/ without fan	°C	-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 $\overline{---}$	+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 \sim	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	°C	-10..+65							
Room temperature with/ without fan	°C	-10..+55/+45							
Protection index		IP 20C							
Units per packaging		1							
Packing weight	Kg	1.43				1.65			