FAGOR

SCT 8000 Series

Module for processing a DVB-S/S2 multiplex, selection of services of interest with / without Conditional Access and conversion to a channel under DVB-C standard. It corrects the transport stream errors. De-encryption of one or more services when CAM and card are inserted (CI model).

APPLICATION

The main function of the SCT 8000 is to receive a DVB-S/S2 transponder, select certain services - including conditional access services, opening rights (SCT-CI model) - and modulating them into a DVB-C transponder to the desired frequency and with an optimal MER for distribution.

CHARACTERISTICS

- Selection of a DVB-S/S2 channel between 950 and 2150 MHz.
- Demodulation, detection and correction of the errors of the received signal.
- Output signal with MER in optimum quality level for signal distribution.
- LNB control 22 KHz 14/18 V or DiSEqC 1.2.
- Conversion of encrypted services into free services through the corresponding CAM (CI model).
- Selection of services of interest at the output, adapting the transport stream.
- Indication of the occupancy level of each service and the overall multiplex selected.
- Assignment of LCN (channel number) services to facilitate the automatic tuning of the STB.
- Processing of transport stream. Regeneration of tables, time, stamping correction, edition of programs…
- Regenerates the NIT table at individual and installation level.
- Edition of the name and network IDs.
- Software upgradeable with MCU / LPU.

Supply voltage	V	5	12	17	30
Current drawn SCT / SCT-CI	mA	720 / 850	375	20	2
Total power (CI)	W	9,5 (without CAM)			
Operating temperature range		0 ÷ 45º C			

MODEL		SCT 8000	SCT-CI 8000
Reference		08270	08271
INPUT			
Frequency band	MHz	950 ÷ 2150	
Input level	dBµV	40 ÷ 86	
Modulation type		QPSK, 8PSK (DVB-S/S2)	
Symbol rate		DVB-S: 4 ÷ 45 / DVB-S2: 10 ÷ 30	
Through losses		1,5	
LNB control		22 KHz 14/18 V or DiSEqC 1.2	
CONDITIONAL ACCESS		—	EN 50221 (DVB-CI)
TRANSPORT STREAM PROCESSING			
PCR correction		Yes	
Table processing		PAT, CAT, PMT, SDT, NIT, EIT, BAT, TDT/TOT	
LCN insertion		Yes	
OUTPUT QAM MODULATION			
Modulation parameters		DVB-C	
Symbol rate	Mbaud	1 ÷ 6,96	
QAM order		16, 32, 64, 128, 256	
MER	dB	40	
Through losses	dB	1,5	
RF OUTPUT			
Frequency band	MHz	50,5 ÷ 858 (Δ = 166 KHz)	
Output level	dBµV	65 ÷ 80 (Δ = 0,5 dBµV)	
Through losses	dB	1,5	
Spurious in band	dBc	- 54	
CAM module current drawn (not included)		5V-250 mA (+ 1,25W)	
Programming		UCF 300 / PC (WITH MCU / LPU 8000)	
GENERAL			
Packing Dimensions	mm	265 x 195 x 40	
Weight	Kg	1,33	

Abbreviations: PAT : Program Association Table
CAT : Conditional Access Table
PMT : Program Mapping Table
SDT : Service Description Table
NIT : Network Information Table
EIT : Event Information Table
BAT : Bouquet Association Table
TDT/TOT : Offset Time Table