

## TECHNICAL SPECIFICATIONS

MODEL		SDM 6000	SDM 7000
Reference		27680	27780
Assembly system		Frame	19" Rack
Input/output connectors		F (f)	
Input frequency	MHz	950 ÷ 2150	
Input modulation type		QPSK- (DVB Compliance)	
Input level	dBμV	49 ÷ 89 (-60 ÷ -20 dBm)	
1st IF input through losses	dB	1,5	
Input dynamic threshold C/N (QEF, FEC 3/4)	dBc	8	
1st IF bandwidth	MHz	55	
AFT pulling range	MHz	± 5	
Baud rate	Mbaud	4 ÷ 45 (1 Kbaud resolution)	
Code rate		1/2, 2/3, 3/4, 5/6, 7/8 (automatic)	
FEC		DVB Compliance	
Output modulation type*		PAL, B/G	
VSB output frequency range	MHz	E 2 ÷ E 69 (47 ÷ 862 MHz) programmable	
Output frequency shift	MHz	± 4,5 (Δ = 125 KHz)	
Output through losses	dB	1,5	
Output level	dBμV	75 ÷ 90 (-34 ÷ -19 dBm)	
Spurious in channel	dBc	-60	
Spurious in band	dBc	-54	
Carrier accuracy	KHz	± 30	
Carrier stability	KHz	± 10	
Video modulation depth	%	75	
Video S/N ratio	dB	54 weighted	
Packing dimensions	mm	272 x 166 x 45	
Weight	Kg	1,8	

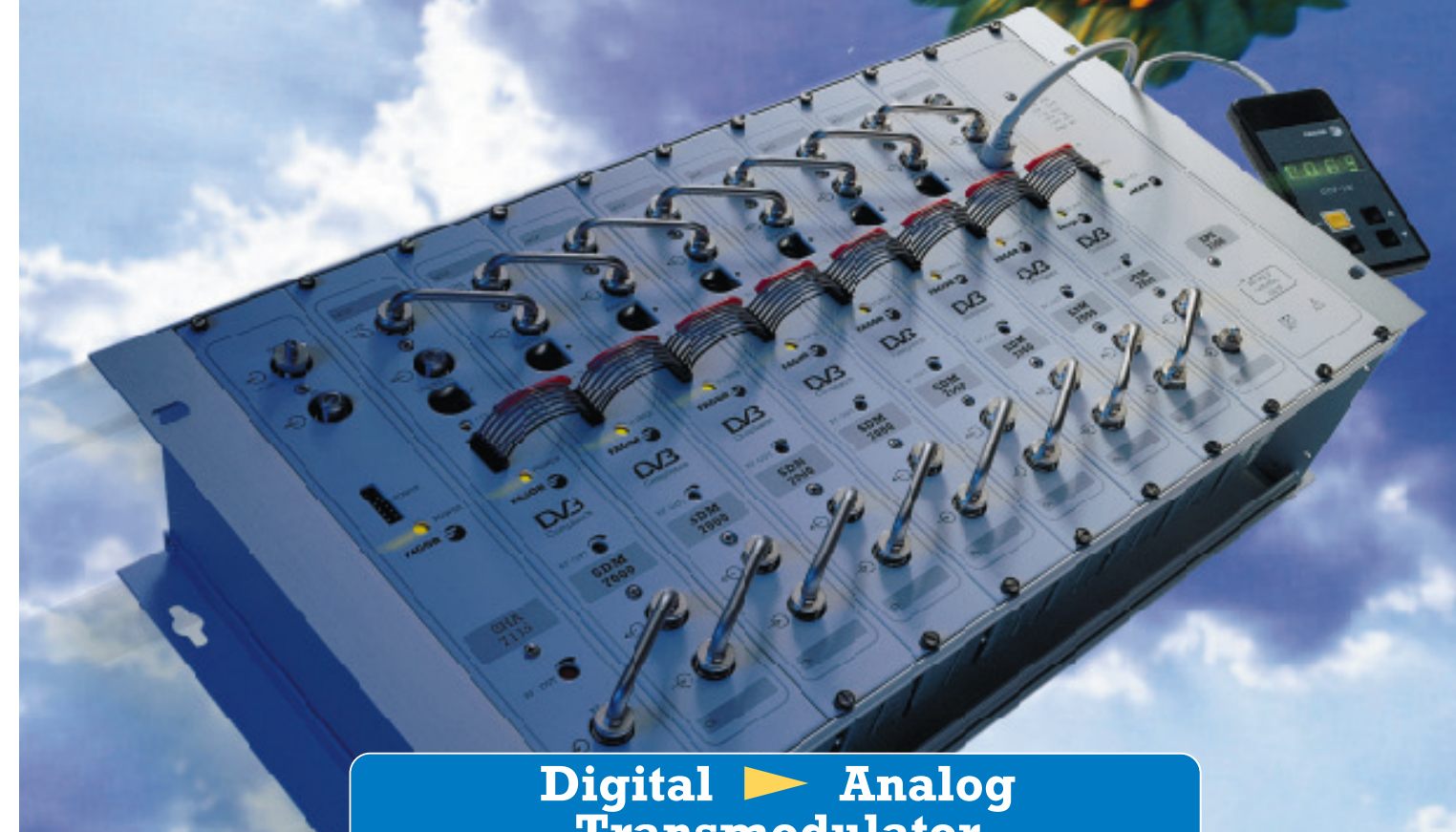
\* Standards available: B/G, I, L, D/K M, N...



LJK/FAGOR - C / 1000

# Free-to-Air

## Free Channels



Digital ► Analog  
Transmodulator

QPSK ► AM

SDM 6000/SDM 7000

Ref: 9I 022

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# SDM 6000 / SDM 7000

## Digital ► Analog Transmodulator

The SDM 6000 / SDM 7000 module is a QPSK/AM transmodulator specially designed for the reception of **free** Digital Satellite TV **channels**, and for their subsequent distribution together with the rest of the terrestrial and analog satellite channels via a single cable.

Fagor's SDM demodulates the QPSK signal and delivers a channel selectable by the installer, so that the programmes may be directly received by a television set.

With this new module, Fagor has incorporated the conversion of Digital Satellite TV signals on **PAL TV** channels to its Multi-Processing Headend System; these channels will be distributed via the community antenna network. The SDM is 100% compatible both electrically and mechanically with the rest of the modules of the SCM 6000/ SCM 7000 System.

Its **modular design** allows the headend to be configured according to the users' needs, incorporating as many modules and digital programmes the user wishes to receive.

The user can program all system parameters following a simple **OSD menu**, by means of the UCF 100 **Control Unit**.



OSD display to simplify system parameters programming.

### SDM 6000/SDM 7000 series Characteristics

- One only reference for any output channel.
- Adjacent channel operation 47 ÷ 862 MHz.
- Allows MCPC & SCPC operation (Multi Channel Per Carrier & Single Channel Per Carrier).
- DVB compliance.
- Automatic video, radio and teletext identification programs.
- Easy tuning due to digital signal quality display: C/N.
- Baud Rate from 4 to 45 Mbaud.
- Automatic Code Rate detection.

### Advantages of QPSK-AM transmodulation

QPSK - AM transmodulation is a solution for both, new homes and existing collective installations, with no need to modify the distribution network.

### Therefore

- No parallel installation is necessary, taking advantage of the installed network, cable, tap-offs, splitters...
- Facades are not affected with cables running down them or additional installations.
- Users can access all services without modifying the existing installation in the flat.
- Free programs reception without need of an IRD.

