PROFESSIONAL HEADEND QPSK>COFDM
From Digital Satellite to DTT

8000
series

Guarantee 3 years

class A

CE

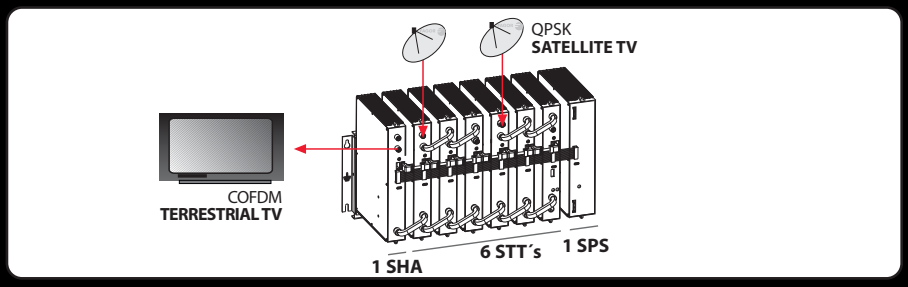
FAGOR

8000 series

FAGOR

QPSK > COFDM FROM DIGITAL SATELLITE TO DIGITAL TERRESTRIAL

A headend with potential



Fagor's QPSK>COFDM system is a professional headend for the distribution of television in DVB-T (DTT) format.

Fagor's QPSK>COFDM 8000 converts the **satellite signal (DVB-S or DVB-S2) into a terrestrial one (DVB-T)** so that it can be received directly by a digital TV set or a DTT receiver. Its integration with other processes, such as converters and modulators, enables the distribution of all the signals (satellite and terrestrial) on bands I to V.

The **QPSK>COFDM 8000 headend** is ideal for use as a headend in large facilities, hotels, conference halls, hospitals, housing developments...

DVB-T encoding is sufficiently robust to convert the satellite signal into digital terrestrial without the need for changing the cabling or the connections; all that needs to be changed is the headend.

A HEADEND WITH POTENTIAL

A headend with growth potential. Starting with a basic headend, the installer can add modules according to the installation's requirements, being able to create a headend that provides for **remote programming, remote monitoring and is self-equalising.** One can start off initially with the basic equipment and then go adding new functions in response to future growth needs.

EASY ASSEMBLY

All the modules have exactly the same format and are assembled quickly and easily on a 6U rack or on a frame mounted directly on the wall.
Each module is addressed by a rotary switch and fitted with LED lights for power and signal.

DVB-S/DVB-S2 TO DVB-T TRANSMODULATOR
STT 8000

DVB-S or DVB-S2 to DVB-T Transmodulator
Digital/digital transmodulation of a transponder on the 1st IF Satellite band (950 ÷ 2150 MHz) modulated in QPSK or 8PSK to a channel modulated in COFDM on the 47 ÷ 862 MHz band.

DVB S2
DVB T

free-to-air

It allows receiving Satellite TV programmes, directly through DTT receivers embedded in SD, HD Ready and Full HD screens or through a standalone DTT receiver.

CHARACTERISTICS
> Re-multiplexing of the transport stream.
> Selection of services of interest within the transport stream.
> Indication of the channel's residual capacity.
> Regeneration of the Network Information Table (NIT) either on an individual basis or for the entire installation.
> TS Processing with LCN insertion, PCR restamping and TS remapping.

MODEL		STT 8000
Reference		08280
INPUT		
Frequency band	MHz	950 ÷ 2150
Input level	dBµV	40 ÷ 86
Modulation type		QPSK- 8PSK
Symbol rate	MS/s	4÷45 DVB-S, 10÷30 DVB-S2
Through losses	dB	1,5
OUTPUT		
Frequency band	MHz	47 ÷ 862
COFDM modulation type		2K; 8K
Modulation parameters		DVB-T
Output constelation		QPSK, 16 QAM, 64 QAM
MER at output	dB	38
Output level	dBµV	80
Output level regulation	dB	15
Local programming		UCF 300

HEADEND AMPLIFIER
SHA-SAC 8000

Broadband amplifier for 8000 series headend.

CHARACTERISTICS
> SAC models have 4 inputs.
> Linear amplification with low noise figure and regulation of the output level.

MODEL		SAC 8000	SHA 8000
Reference		35081	35083
Nbr. of inputs		4	1
Frequency band	MHz	47÷862	
Input impedance	Ohm	75	
Gain	dB	43	
Regulation	dB	20	
Noise figure	dB	7	
Output level IM3 (-60 dBc DIN 45004B)	dBµV	120	
Output level stability	dB	± 2	

POWER SUPPLY
SPS 8000

The SPS 8000 model is a multi-voltage power supply that can be connected to a common power BUS shared with various power supplies.

CHARACTERISTICS
> "Load Sharing" technology

MODEL		SPS 8000			
Reference		68000			
Input voltage	Vac	187 ÷ 264			
Output voltages	Vdc	30	17	12	5
Max. current per output	A	0,1	0,5	4	7,5
Output current drawn	W	95			

CONTROL UNIT **UCF 300**

Ref. 85115

6U 19" RACK FRAME **BSR 807**

For 7 modules + power supply

Ref. 83800

VENTILATION KIT FOR 19" RACK **VNT 807**

Ref. 83801

VENTILATED HOUSING **CFR 807**

With frame + ventilation unit + 3 socket plug

Ref. 83806

Ref. 83806

POWER BUS **BA 807**

For 7 modules + power supply

Ref. 83807

ADJUSTMENT PLATES ON 19" RACK

CAM 08: for module

CAF 08: for power supply

CAM 08
Ref. 83802

CAF 08
Ref. 83804

BLIND COVERS FOR RACK 19"

CC 08: for module

CC FR: for redundant power supply

CC 08
Ref. 83803

CC FR
Ref. 83816

RF BRIDGE **PMD 800**

Ref. 83814

Other accessories:

BF 800	Ref: 83810	Power bus - 2 power supplies
BA 801	Ref. 83815	Power bus 1,5 m between racks
BA 805	Ref: 83809	Power bus - 5 modules + 2 power supplies

FAGOR

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