



S/D NAGRA CAM  
(to be purchased separately)

## SAT-DTT transmodulator for three transponders with Common Interface

**art. 16-792**  
**S/D FLEX3-2C**

It allows to receive SAT coded transmissions present in 3 transponders (one for each input) and distribute them in a centralized TV antenna system in digital format (COFDM).

The services selected by each transponder can be re-modulated on any of the available output MUXs, optimizing the transmission flow of each MUX, which can contain on average 3/5 remodulated programs.

It is possible to select up to a maximum of 4 MUX output based on the number of services to be distributed. The output MUXs are always adjacent to each other.

It is possible to use no. 2 FlexCAM, which in the case of the TivùSat platform, with the MERLIN encryption, allow decoding up to a maximum of 8 encrypted programs for each one.

It allows to add, remove or substitute a service of the list of previously memorized programs, without a new TV tuning.

The module is equipped with non-volatile memory for maintenance of data stored in the event of a power failure.

You can assign a LCN (Logical Channel Number) to each program. Transmodulator has three SAT inputs and one mixing RF output with screw F-type connectors.

It is equipped with useful advanced features, such as:

- Configuration of protection password: it limits the access to the programming settings.
- Generate report: it allows to create a text file with the configuration of the transmodulator to present the list of services offered to the customer.
- Parental Control: allows you to make viewing possible only after entering a password.

Programmable from PC using Offel Manager software (CD with software and Ethernet connection cable supplied). Programmable also remotely through Offel server.

It can be powered by art. 16-722 S/D-A (for single module), art. 16-723 S/D-A3 (up to 3 modules) or art. 16-720 S/D-A (up to 6 modules).

Each module is equipped with two standard DIN connections for a strong hooking.



Code Item	16-792 S/D FLEX3-2C
<b>INPUT PARAMETERS</b>	
No. inputs	3
Input signals type	DVB-S/S2
No. Common Interfaces	2
Input frequencies MHz	950 ÷ 2150
Input level dBμV	42 ÷ 82
Bandwidth MHz	5 ÷ 36
Modulation type	QPSK/8-PSK
Symbol rate Msps	1 ÷ 45
Remote power supply	13/18 V @350 mA, 22 KHz (short-circuit protection)
DiSEqC	1.0
<b>COFDM MODULATION</b>	
COFDM modulation	2K
Constellation	QPSK, 16QAM, 64QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32
MER dB	> 40 (typ. 42)
<b>OUTPUT PARAMETERS</b>	
No. outputs	1 with loop-through
Output signals type dB	1,5
No. multiplexers	DVB-T/C
Channel bandwidth	up to 4 (adjacent)
RF OUT frequencies MHz	7 (VHF), 8 (UHF)
RF OUT adjustable level MHz	174 ÷ 862
RF OUT loopthrough loss dBμV	60 ÷ 80
Frequency stability ppm	±10
In-band level of spurious dBc	< -50
Out-of-band level of spurious (B = 8 MHz) dBc	< -75
<b>GENERAL</b>	
Operating voltage Vcc	24
Power consumption W	14 + LNB supply
Dimensions mm	226x175x60
Packaging dimensions (LxWxH) mm	240x238x64
Packaging weight Kg	2
Operating temperature °C	0 ÷ +40 (automatic protection)
Compliant to	EN50083-2:2012/A1:2015; EN303372-2:V1.1.1; EN 55024:2010/A1:2015; EN50581:2012

### Example of using a S/D FLEX3-2C module for receiving a selection of TivùSat programs from 4 transponders

IN SAT	Satellite	Freq. (MHz)	Polarity	RF OUT	Received programs
1	Hotbird 13°E	11.766	VH	E21	Rai 1 HD, Rai 2 HD, Rai 3 HD, Rai 4 HD, Rai Movie HD
2	Hotbird 13°E	11.432	VL	E22	4 HD, 5 HD, 1 HD
			E23		Focus, cartoonito, MEDIASET, IRIS, TOPcrime, TGCOR 24
3	Hotbird 13°E	11.919	VH	E24	LA HD, 7d

The content of the transponders may change without forewarning depending on the need of providers. Please consult specialized magazines or websites for the updated configuration.  
The TV channels logo are not our property and are shown only for example.  
The output channels of transmodulators shown in this example are purely indicative. Be sure to select channels that aren't already used in the television distribution.

