Data sheet

OFFEL
Sistemi di ricezione TV e SAT

Made in Italy

S/D NAGRA CAM
(to be purchased separately)

SAT-DTT transmodulator

for three transponders with Common Interface

art. 16-791
S/D FLEX3-1C

SAT
INDOOR
CODIFIED 01001 SIGNALS
230 V~
REG.
HIGH SHIELDING
CONN. F
CE

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 used together with a FlexCAM, which in the case of the TivùSat platform, with the MERLIN encryption, allows decoding up to a maximum of 8 encrypted programs.

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.

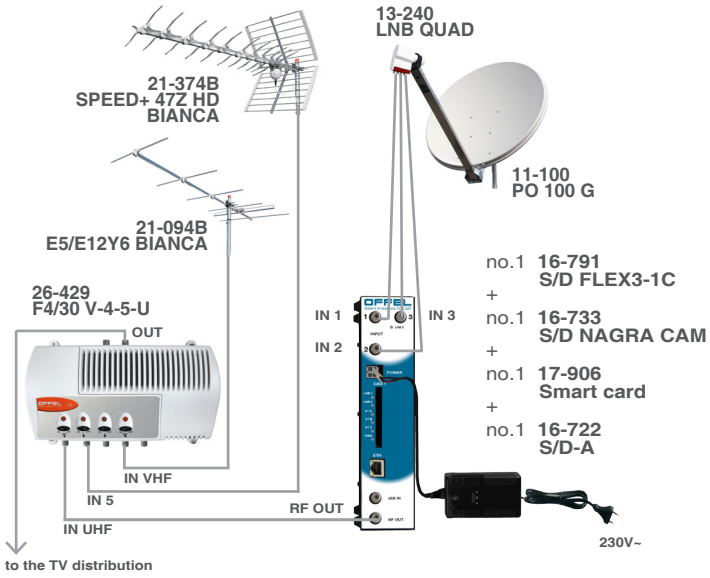
It can be powered by art. 16-722 S/D-A (for single module), art. 16-723 S/D-A3 (up to 3 modules) or art. 16-720 S/D-A (up to 6 modules).
Each module is equipped with two standard DIN connections for a strong hooking.

Code		16-791
Item		**S/D FLEX3-1C**
INPUT PARAMETERS		
No. inputs		3
Input signals type		DVB-S/S2
No. Common Interfaces		1
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
COFDM MODULATION		
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)
OUTPUT PARAMETERS		
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
GENERAL		
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 FLEX3-1C module for receiving a selection of TivùSat programs from 3 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
2	Hotbird 13°E	11.432	VL	E22	4 HD, MEDIASET TGCOM 24, 5 HD, HD
3	Hotbird 13°E	11.919	VH	E23	LA7 HD, La7d

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.



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