



SAT-DTT transmodulator for three Free To Air transponders

art. 16-790 S/D FLEX3

It allows to receive SAT Free To Air transmissions present in 3 transponder (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 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.



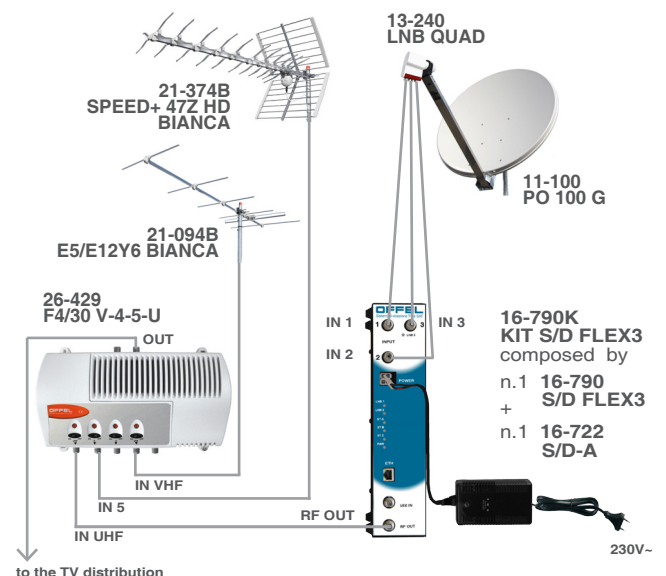
Code Item	16-790 S/D FLEX3	
INPUT PARAMETERS		
No. inputs	3	
Input signals type	DVB-S/S2	
No. Common Interfaces	0	
Input frequencies	MHz	950 ÷ 2150
Input level	dBµV	42 ÷ 82
Bandwidth	MHz	5 ÷ 36
Modulation type	QPSK/8-PSK	
Symbol rate	Msp	1 ÷ 45
Remote power supply	13/18 V @350 mA, 22 KHz (short-circuit 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 KIT S/D FLEX3 for receiving a selection of FTA programs from 3 transponders

Configuration B for KIT S/D FLEX3 (art. 16-790K)

IN SAT	Satellite	Freq. (MHz)	Polarity	RF OUT	Received programs
1	Astra 19° E	12.226	VH	E21	<ul style="list-style-type: none"> ● euronews FR ● euronews DE ● EUROSPORT 11 RTL AUT SUPER RTL AUT VOX AUT RTI AUT VOX CH
2	Astra 19° E	11.538	VL	E22	<ul style="list-style-type: none"> 24h EN TRT WORLD 24h FR TV5MONDE
3	Astra 19° E	11.229	VL	E23	<ul style="list-style-type: none"> HD WORLD NEWS HD ALJAZEERA HD NHK WORLD

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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