



SAT-DTT optical receiver

FO-RX SAT+DTT series

art. 19-009
FO-RX QUAD+DTT

Optical receiver that allows to convert optical signals in input into electrical signals. Equipped with 4 TV-SAT outputs independent to each others, connectable to 4 TV-SAT demix outlets (art. 27-521 OPST DEM TV-SAT cc), that can be connected to 4 decoders and 4 TVs.

Equipped with connectors of different type:

- no. 1 FC/PC input connector for the optical signal;
- no. 4 output screw F-type connectors, where are the signals converted from optical to electric.

With AGC, that allows the automatic gain control to balance the optical loss of the system.

The optical receiver is powered by a SAT decoder connected to one of the RF outputs. When the SAT decoder is not present, instead, the device requires a 20Vdc external power supply, which can be purchased separately: art. 19-013 FO-ALIM. RX SAT-DTT.

Two LED indicators allow to monitor the status of the receiver:

- Orange LED: indicates the presence of RF signals;
- Green LED: indicates that the device is powered.



Characteristics

- Equipped with AGC (automatic gain control)

- Equipped with 4 independent TV-SAT outputs

Code	19-009
Item	FO-RX QUAD+DTT
No. optical inputs	1
No. TV-SAT RF outputs	4
Input connector	FC/PC
Outputs connectors	screw F type
Output SAT frequencies	MHz 950 ÷ 2150
FM TV output frequencies	MHz 88 ÷ 108
DAB TV output frequencies	MHz 174 ÷ 240
DTT TV output frequencies	MHz 470 ÷ 790
Output impedance	Ω 75
Wavelength	nm 1100 ÷ 1650
Return loss	dB 10
Gain variation across bands	dB SAT 5 ; DTT 5
Typ. TV output level	dBμV 71
TV rejection	dB 35
Typ. SAT output level	dBμV 75
SAT rejection	dB 35
Optical input power	dBm -12 min ; -3 max
Max current consumption @ 10,5V	mA 490
Max current consumption @ 13V	mA 420
Max current consumption @ 18V	mA 370
Input voltage range	Vdc 10,5 ÷ 21
Vertical select voltage	Vdc 10,5 min ; 14,5 max; 13 typ.
Horizontal select voltage	Vdc 15,5 min ; 19 max; 18 typ.
Low/high band	0/22 KHz tone
Optical cabling fibre type	single mode 9/125
Optical cabling fibre standard	G657A
Dimensions (LxWxH)	mm 129x117x27
Packaging imensions (LxWxH)	mm 150x120x30
Packaging weight	Kg 0,37
Fit temperature	°C -15 ÷ +50
Storage temperature	°C -20 ÷ +70

Example of application

