



SAT-DTT optical receiver

FO-RX SAT+DTT series

art. 19-010

FO-RX H-V-H-V+DTT

Optical receiver that allows to convert optical signals in input into electrical signals.

Equipped with a TV output and 4 SAT outputs, one for each of the satellite polarizations (V/L, H/L, V/H, H/H), which can be connected to a multiswitch system.

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 needs to be powered by 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 H-V-H-V SAT outputs

Code	19-010
Item	FO-RX H-V-H-V+DTT
No. optical inputs	1
No. SAT RF outputs	4
No. TV RF outputs	1
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 78
TV rejection	dB 35
Typ. SAT output level	dBμV 79
SAT rejection	dB 35
Optical input power	dBm -12 min ; -3 max
Max current consumption @ 10,5V	mA 470
Max current consumption @ 13V	mA 390
Max current consumption @ 18V	mA 280
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 140x30x90
Packaging imensions (LxWxH)	mm 150x30x120
Packaging weight	Kg 0,20
Fit temperature	°C -15 ÷ +50
Storage temperature	°C -20 ÷ +70

Example of application

