

GPON AND RF OVERLAY OPTICAL TRANSMITTER

ROT Series

1550 nm optical transmitter for use in FTTH. FTTx PON. Triple-play and RF Overlay.

APPLICATION

Conversion of RF signals into amplitude-modulated optical signals for CATV & Sat HFC networks.

FEATURES

- Equipped with DFB laser. for very good linearity and high optical output power.
- Advanced multi-frequency RF predistortion technology ensures perfect CTB and CSO performance at high standard CNR value.
- Automatic gain control (AGC) enables stable output at different RF input levels.
- Different networks can be optimized by OMI adjustment.
- Automatic temperature control, which ensures a long service life of the device.
- Built-in dual backup power supply.
- Configuration of system parameters controlled by the front panel keypad or by the user-friendly web interface
- A standard RJ45 interface is provided. which supports SNMP and WEB remote network management.
- LNB polarity selection by 0/13/18V power supply.



MODEL		ROT 510 S
Reference		10403
OPTICAL PARAMETERS		
Output power	dBm	10
Output wavelength	nm	1550
Laser linewidth		0,65
SMSR	dB	≥35
XP	dB	≥20
RIN	dB/Hz	≤-160
Optical return loss	dB	≥50
Fiber connector		SC/APC
RF PARAMETER		
Frequency Range	MHz	1x 47-862 / 1x 950-2400
Nivel de entrada	dBμV	TERR 75...85 / SAT 70...80
Flatness	dB	TERR ±0,75 / SAT ±2
CNR	dB	TERR ≥51 / SAT ≥28
CTB	dB	TERR ≥51 / SAT ≥28
CSO	dB	TERR ≥60 / SAT ≥31
Return loss	dB	TERR ≥16 / SAT ≥10
Input impedance	Ω	75
RF connector		F-hembra
Max. LNB power consumption / LNB voltages		300mA - 0 / 13 / 18
OTHER PARAMETERS		
Network management interface		SNMP y WEB
Power supply	Vac	90 ÷ 265
Power consumption	W	≤30
Operating temperature	°C	-5 ÷ 55
Storage temperature	°C	-40 ÷ 85
Operating relative humidity %		5 ÷ 95
Dimension	mm	370 × 483 × 44
Peso	Kg	4,1