

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 HFC networks.

FEATURES

- Equipped with a DFB laser, for excellent linearity and high optical output power.
- Advanced multi-frequency RF pre-distortion technology ensures optimal performance of the CTB and CSO at a high standard CNR value.
- Automatic gain control (AGC) ensures a stable output across different RF input levels.
- Different networks can be optimised via OMI tuning.
- Automatic temperature control, ensuring a long service life for the device.
- Built-in dual redundant power supply.
- System parameter configuration controlled via the front-panel keypad or the user-friendly web interface.
- A standard RJ45 interface is provided, supporting SNMP and WEB-based remote network management.



MODEL		ROT 506
Reference		10400
OPTICAL PARAMETERS		
Output power	dBm	6
Output wavelength	nm	1550
Laser linewidth		0.65
SMSR	dB	≥45
XP	dB	≥20
RIN	dB/Hz	≤-160
Optical return loss	dB	≥50
Fibre connector		SC/APC
RF PARAMETER		
Frequency range	MHz	47-862
Input level	dBμV	70...100
Flatness	dB	±0.75
CNR	dB	≥51
CTB	dB	≥65
CSO	dB	≥60
Return loss	dB	≥16
Input impedance	Ω	75
RF connector		F-female
OTHER PARAMETERS		
Network management interface		SNMP and WEB
Power supply	V	90-265
Power consumption	W	≤30
Operating temperature	°C	-5 to 55
Storage temperature	°C	-40 to 85
Operating relative humidity	%	5-95
Dimensions	mm	370 × 483 × 44
Weight	kg	4.1