

Optical receiver

MOB-x23

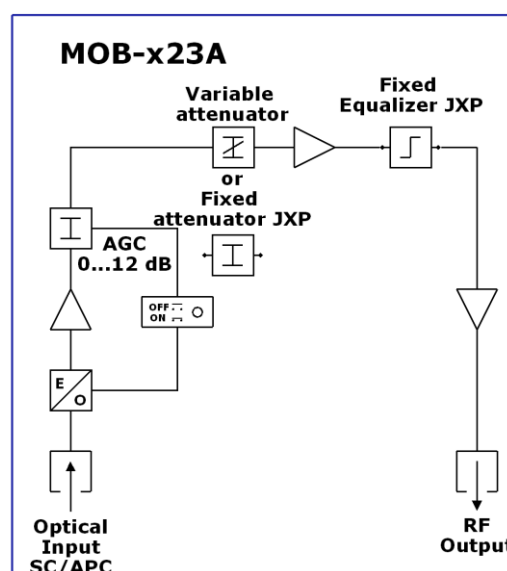


The **MOB-x23** is modern optical receiver designed for FTTx application. The unit is equipped with two sockets for JXP plug-in modules for output parameters configuration – gain and tilt control.

MOB-x23 built-in diode LED indicator informs of input optical power level. The receiver has one optical input – SC/APC connector and two RF outputs – F female connectors. Simple construction and easy configuration of the optical receiver, provides significant cost reduction and simplified maintenance in the modern HFC networks.

Block diagram – MOB-x23

- Easy configuration - universal plug-in modules or variable module
- Hybrid GaAs Push-pull technology.
- 3 stages LED indication of input optical power level.
- Very low power consumption – 5,5W.
- Very high isolation between outputs.
- 3 kinds of overvoltage protection.
- Switch Mode Power Supply (180-253 VAC).
- Aluminum housing.



TECHNICAL SPECIFICATION – MOB-x23

OPTICAL PARAMETERS		MOB-823	MOB-923
Input level range (P_{IN})	dBm	-6...+2	
Optical return-loss	dB	≥ 40	
Optical input wave length	nm	1100...1650	
Max. input level (without damaging of photodetector)	dBm	3	
Indicator of optical power	/	Diode LED indicator: - orange: $P_{IN} < -6$ dBm - green: $-6 < P_{IN} < 2$ dBm - red: $P_{IN} > 2$ dBm	
Equivalent input noise current	pA / (Hz) ^{1/2}	8	
Optical connector	/	SC / APC	
RF PARAMETERS			
Frequency range	MHz	47...862	
Gain characteristic flatness	dB	± 0,75	
Equalizer adjustment range (EQU)	dB	adjustable 0...20	0...20 (JXP plug-in)
Attenuator adjustment range (ATT)	dB	0...20 (JXP plug-in)	0...20 (JXP plug-in)
Max. output level (42 channels CENELEC)			
- CTB ≤ 60 dBc	dBuV	2 x 104	
- CSO ≤ 60 dBc	dBuV	2 x 104	
Return loss at RF output	dB	≥ 18 (40MHz) – 1,5dB / oct	
Output connector	/	F female	
Output impedance	Ω	75	
OTHERS			
Operating voltage	V AC / Hz	180...253 / 50..60	
Power consumption	W	5,5	
Dimensions	mm	155 x 56 x 96	
Weight	kg	0,76 (aluminum enclosure)	
Operating temperature	°C	-20...+55	
Protection class	/	IP 40	