

Micro optical receiver

MOB-100 xPON



RoHS



Micro optical receivers **MOB-100 xPON** are the modern devices dedicated to FTTH (*Fiber To The Home*) applications, especially for xPON network. This device is made in die-cast metal housing and can be mounted in plastic housing “mouse” type.

Receiver is equipped with SC/APC input connector and one RF output with “F” female connector. Optical receiver is also equipped with a 3-stage LED optical input power indicator.

Simple construction of this receiver ensures significant investment and network maintenance cost reduction.

MOB-100 xPON micro optical receiver should be installed at the end-user’s site and, after appropriate division, delivers the signal to multiple TVs.

Integrated AGC unit maintains a constant output signal level with the varying input optical power within the AGC operational limits. A reception diode with a filter receiving only the 1550 nm optical wavelength allows the receiver to be used in networks where other, different than 1550 nm signals will not have a negative effect on the performance of the MOB-100 xPON receiver.

- Built-in AGC.
- Optical wavelength input: 1550 nm.
- Low noise receiver.
- 3-stage LED optical input power indicator.
- Very low power consumption <1,0W.
- Solid die-cast aluminum housing.

Technical parameters may be changed without earlier notice

www.telmor.pl

TECHNICAL SPECIFICATION

Name / Parameters		MOB-100 xPON
OPTICAL PARAMETERS		
Input level range (P_{IN})	dBm	-10...-3
Optical input wavelength	nm	1550
Maximum input level	dBm	+3
Optical power indicator	dBm	- orange: $P_{IN} < -10$ - green: $-10 < P_{IN} < -3$ - red: $P_{IN} > -3$
Optical connector	/	SC / APC
RF PARAMETERS		
Frequency range	MHz	40-862
Gain characteristic flatness	dB	$\pm 1,0$
AGC efficiency in range -10...-3dBm	dB	± 1
C/N factor for input power -3dBm and OMI 3,5%	dB	52
Max. output level (42 channels CENELEC) - CTB, CSO ≤ 60 dBc	dB μ V	80
Output connector	/	F
Output impedance	Ohm	75
OTHERS		
Operating voltage (external power supply)	V_{DC} / mA	9 / 150
Power consumption	W	$< 1,0$
Operating temperature	$^{\circ}$ C	0...+40
Weight without power supply	kg	0,1
Dimensions	mm	63 x 60 x 19
Package	/	box

Technical parameters may be changed without earlier notice

www.telmor.pl