

FTTH 1.2GHz Optical Receiver

This FTTH optical receiver is compatible with GPON and EPON networks, supporting any FTTx PON technology. It has forward RF branch output and excellent linearity and flatness.



Overview

High-Performance FTTH Optical Receiver

This 1.2GHz FTTH optical receiver is designed to be fully compatible with GPON, EPON, and various FTTx PON technologies. It utilizes a high-performance GaAs chip to deliver excellent linearity and flatness, supporting a forward working frequency extended up to 1.2GHz. With built-in AGC (Automatic Gain Control) and a compact aluminum alloy housing, this device ensures reliable signal reception and easy installation in diverse fiber-to-the-home environments.

Optical Specifications

Input Wavelength	1260-1600nm
Receive Wavelength	1550±20nm
Bypass Wavelength	1310/1490nm
Responsivity	e0.8/W
Optical Return Loss	45 dB

RF Performance

Frequency Range	47-1200MHz
Output Level	e8dBm
Flatness	±0.75dB
Output Impedance	75 Ω

Signal Quality

Signal Quality Metrics

Metric	Value
CNR	e56B
CSO	e62B
CTB	e66B

Power and Control

Status Indicators (LED)

- Red: $>+3\text{dBm}$
- Green: -7 to $+3\text{dBm}$
- Orange: -10 to -7dBm
- Red: $<-10\text{dBm}$

Optical AGC Range	-7 to $+3\text{dBm}$
Power Consumption	$<2\text{W}$
Power Supply	12V DC2.1

Physical and Interface

Connectors	F-female (RF), SC/APC or SC/UPC (Optical)
Dimensions	88*50*22mm
Housing Material	Aluminum alloy