

# Optical Transmitter for GPON and EPON Systems

This optical transmitter is compatible with GPON and EPON systems, supporting any FTTx PON technology. It offers excellent linearity and flatness within a wide operating frequency range.



## Product Overview



Compact optical transmitter unit with high-efficiency GaAs amplifier technology.

### Professional Optical Transmitter for FTTx Networks

This high-performance optical transmitter is designed for robust FTTH and FTTx applications, supporting both GPON and EPON systems. Featuring advanced GaAs amplifier active devices and ultra-low noise technology, it ensures excellent linearity and signal integrity for complex network environments. The compact unit integrates seamlessly into existing infrastructure, providing reliable signal transmission over single-mode fiber with a wide frequency range up to 2150MHz.

## Technical Specifications

### Optical Performance

**1550 nm**  
Wavelength

**10 mW**  
Optical Power

**45 dB**  
Return Loss

### RF Performance

Parameter	Value
Frequency Range	47-2150 MHz
Flatness (CATV)	±0.75 dB
Input Impedance	75 Ω
CNR	e52dB
CSO	e62dB
CTB	e65dB

## Connectivity & Power

### Power & Consumption

- Input Voltage: 12V DC
- Power Consumption: <3W
- LNB Power Supply: 13-18V / 0-22KHz
- Maximum Current: 500mA

### Interfaces

F-female RF Connector, SC/APC Optical Connector, F-female Power Interface

### Physical Dimensions

100mm x 98mm x 28mm