

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