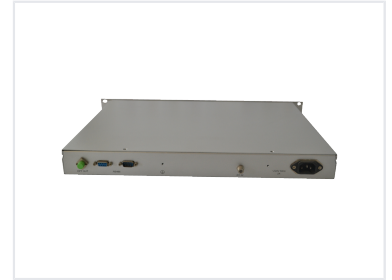


# CATV FTTH Optical Transmitter

## 1310/1550nm

This optical transmitter is designed for TV signal transmission over long distances to multiple optical nodes. It utilizes DFB lasers and advanced digital driver circuitry, and can transmit signals up to 30 kilometers when paired with an EDFA.



### ADDITIONAL IMAGES



### Overview



### High-Performance CATV Optical Transmission

The YOT-1310/1550nm series is a professional-grade optical transmitter designed for high-quality TV signal transmission over long distances. Utilizing advanced DFB lasers and a microprocessor control system, it ensures stable performance for both outdoor CATV and FTTH network applications. When paired with an EDFA, this direct modulation transmitter can reach nodes up to 30 kilometers away while maintaining excellent signal integrity.

### Key Performance Metrics

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**30 km**

Max Transmission Distance

**1000 MHz**

Frequency Response

**-160 dB/Hz**

Relative Intensity Noise

## Optical Specifications



### Supported Connectors

SC/APC • FC/APC • SC/ZPC

### Laser Type

Advanced DFB Laser Diode (LD)

### Optical Wavelength

1310nm, 1550nm, ITU-grid

### SBS Threshold Value

13—19dBm (Adjustable)

## RF Characteristics

### RF Bandwidth

45 - 870 (1000) MHz

### RF Input Resistance

75  $\Omega$

### RF Input Level

75-85 dBuV

### Test Port Level

15 $\pm$ 1dBmV/ch (AGC mode @77 channels)

## Hardware & Interface



### Monitoring Indicators

- Laser Operation Status
- RF Signal Level
- Alarm Status
- AGC (Automatic Gain Control)
- MSC Status
- Temperature

### Rear Panel Connectivity

- Dual Optical Outputs
- RS485 Communication Ports
- RF IN Connector
- Grounding Point
- Ethernet Port

## Power Specifications

Power Voltage	110-254 VAC (50Hz)
Rated Current	2 A