

1550nm Directly Modulated Optical Transmitter

XPON OT-CATV-1550nm

airlive®



1550 nm
Optical
Transmitter

Accept Low Signal
Input Levels

19" inch
1U

45~870/1000
MHz
bandwidth

Selectable
AGC\MGC

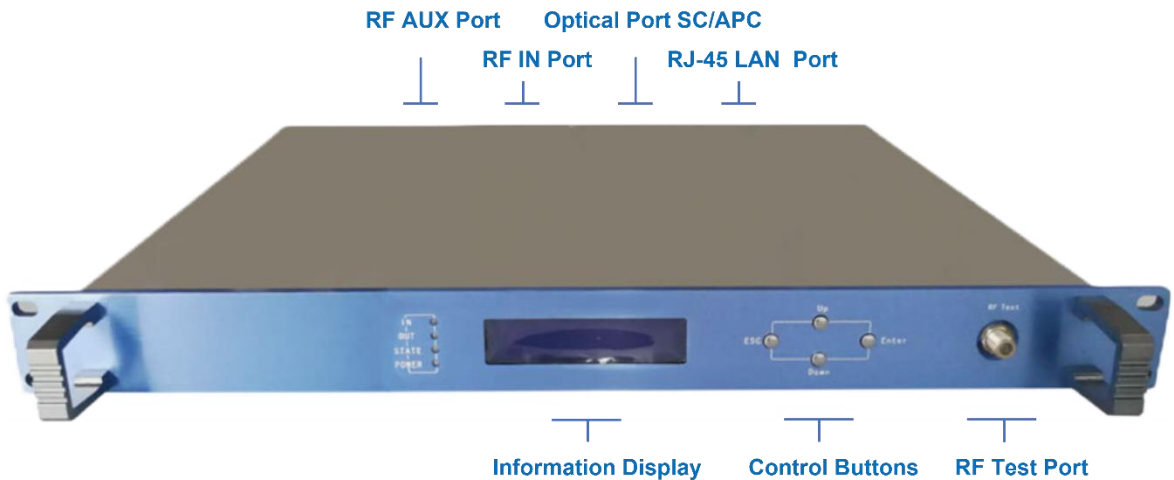
LCD
Display

Support
ATC/APC

Overview

Introducing the AirLive 1550nm Directly Modulated Optical Transmitter XPON OT-CATV-1550nm: Redefining High-Speed Data Transmission. This cutting-edge device utilizes advanced direct modulation techniques, operating at a 1550nm wavelength to deliver exceptional signal quality and long-distance transmission capabilities. With high-power laser diodes and optical amplifiers, it overcomes signal degradation challenges.

Ideal for telecommunications, data centers, and enterprise networks, this transmitter empowers businesses to meet growing bandwidth demands. Experience unparalleled speed, reach, and stability, optimizing network performance and gaining a competitive advantage. Stay ahead with the AirLive XPON OT-CATV-1550nm, revolutionizing high-speed data transmission and unlocking new possibilities for your business.



Highlight Feature

- CATV converter to Fiber
- 1550nm optical transmitter
- Selectable AGC (automatic gain control) or MGC (manual gain control)
- Accepts low signal input levels
- Front panel LCD display
- Low RIN, High CNR
- High CSO, CTB and XMOD
- High linearity and low noise DFB laser, large transportation capacity
- Effective Automatic Temperature Control (ATC) and Automatic Power Control (APC) of the laser to ensure stable operation
- Microprocessor control and monitor
- RS485 interface for remote monitoring and control
- 45~870/1000 MHz bandwidth
- RF pre-distortion circuit for excellent CNR and low distortion performance

Model	XPON OT-CATV-1550nm
<p>Optical Specifications</p> <ul style="list-style-type: none">• Optical wavelength: 1555±20nm• Laser Type: Cooled DFB LD• Optical Power: 10dBm• LD RIN: ≥-160 dB/Hz• Connect type: SC/APC <p>RF Specifications</p> <ul style="list-style-type: none">• Operating bandwidth: 45~870/1000 MHz• Flatness: ≤±0.75 dB• RF Input Impedance: 75Ω• input Return Loss: 45~550 MHz ≥16dB• input Return Loss: 550~1000MHz ≥14dB• RF Input Level: 80±5 dBmV/Ch• Test Point: ≥70 dBuv• Connector Type: F type female• AGC: ±5 dB• CNR: 51dB(typical)• CSO: ≤-57 dBc• CTB: ≤-63dBc• (CNR, CSO, CTB: 59CH PAL-D CW loading, PHOTON standard Reciever,10km optical fiber, -1dBm optical input power, 80dV input level at 870MHz, 3.6% OMI) <p>Electrical Specifications</p> <p>Control Interface: RJ-45</p> <p>Power supply: 90~260VAC 50/60Hz (Dual)</p> <p>Power consumption: 30W</p> <p>Environmental Specifications</p> <p>Operating Temperature: 0~+50°C</p> <p>Storage Temperature: -25~+65°C</p> <p>Storage Humidity: 10~95% (non-condensing)</p> <p>Standard package of Device</p> <ul style="list-style-type: none">• Product size: Product Dimensions: 48.3x45.0x4.4 cm Package Dimensions: 53.0x50.0x10.0 cm• Package Weight: Product N.W: 2.8KG Product G.W: 3.8KG• Package content: 1 x AirLive XPON OT-CATV-1550nm <p>Ordering Information</p> <p>Model Name: XPON OT-CATV-1550nm</p> <p>Description: 1550nm Directly Modulated Optical Transmitter</p>	