

1550nm CATV Optical Transmitter

CATV Optical Transmitter Quick Information:

Place of Origin: Shenzhen, China (Mainland)

Brand Name: OPTICO / OEM;

Model Number: CATV-TR-1550

Weight (in maximum): $\leq 2\text{kg}$

wave length: $1550\pm 10\text{nm}$

number of channels: 59

Work temp.: $0\sim 50$

Frequency range: $47\sim 750(862)$

Relative humidity: $5\sim 95$

Laser type: DFB

Optical output power: $2\sim 10$



CATV Optical Transmitter Parameters:

Items		Parameter	Remark
CATV Operation wavelength	nm	1530~1565	CATV
OLT pass wavelength	nm	1310/1490	
CATV pass wavelength loss	dB	0.8	1550nm
OLT pass wavelength loss	dB	0.8	1310/1490nm
CATV & OLT isolation	dB	40	
Number of uplink optical ports (for OLT)	pcs	8	EDFA1200,2U
CATV input power	dBm	-5~+10	
Total output power	dBm	20	EDFA1200,1U
Number of output ports	pcs	8	EDFA1200,2U
Each port output power	dBm	6~22	
Difference of each output power	dB	-0.5~+0.5	
Output power adjustable range	dBm	-3~0	
Noise figure (Pin=0dBm)	dB	4.5~5.0	
Polarization dependence loss	dB	0.3	
Polarization dependence gain	dB	0.4	
Polarization mode dispersion	ps/nm	0.3	
Input/output isolation	dB	30	
Pump power leakage	dBm	-30	
Echo loss	dB	55	
SNMP network management interface		RJ45	
Optical connector(IN/OUT)		LC/APC ,SC/APC	
Power supply	V	90~265	220VAC
		30~72	48VDC
Power consume	W	50~150	
Work temp.	°C	0~50	
Storage temp.	°C	-40~80	
Relative humidity	%	5~95	
Size (W) × (D) × (H)	"	88 ×482.6×387 2U	EDFA1200,2U

Performance Characteristics:

19"1U standard rack, high-quality brushed stainless steel shell, two models are divided into optical port front and optical port rear.

47-862MHz (1000MHz can be customized) working bandwidth.

Select internationally famous high-performance DFB laser with narrow spectrum, good linearity and high output power.

Built-in perfect microcomputer automatic monitoring circuit can accurately monitor the optical output power and various working conditions of the laser in real time, ensure stable optical output power, and effectively extend the working life of the laser.

The current multi-frequency RF predistortion technology, full RF GaAs device and complete SMT structure effectively improve the most important CTB and CSO indicators in the CATV system, so that the C / N indicators are also maximized. At the same time, the calorific value is low and the power is small.

Laser temperature stabilization circuit (ATC) and optical power output stabilization circuit (APC) to ensure the best performance of the laser.

The front panel is equipped with working status indicator, and the rear panel is left with RF test port.

Adopt reliable heat dissipation structure design to ensure high stability and working life of the whole machine.

Each working status parameter and fault information of the equipment can be displayed on the LCD Chinese display screen through the centralized monitoring unit, or through the RJ45 network management interface of the system platform to realize centralized monitoring of the network management.

Applications:

1550 direct modulation optical transmitter is designed and manufactured according to communication level standards. It is mainly used for long-distance optical fiber transmission of TV image signals, digital TV signals, telephone voice signals and data (or compressed data) signals.

1550 direct modulation optical transmitter performance and technical indicators meet international requirements, design focus on product cost, is the construction of large and medium-sized 1550nmCATV optical fiber transmission network economical transmission equipment of choice.

CATV Optical Transmitter Packaging & Shipping:

Packaging Details: 1pcs/bubble bag, suitable quantity per Carton box;

Shipping Ways: By international express like UPS, Fedex, DHL, TNT, etc. Or by train, by sea, or by air, etc;



Network Control 1550nm CATV Optical Transmitter

New high performance 1550nm CATV optical transmitter. The height of the transmitter is 1U, it can mount on the 19" frame conveniently. The main devices adopt AOI, XT, JDSU DFB low noise which contains thermoelectric refrigerator, continuous wave transmitter. Because the key parts adopt international brands and system optimal control technology and SNMP network control technology by the company, then the whole technical performance indexes reach the similar imported equipment standard, supplying quality long distance transmission of images, figures or compressed digital signal to cable and telephone communications.

1. High quality: Original system optimal control technology, RF predistortion techniques make system getting largest CTB, CSO and SBS indexes when guaranteeing excellent performance.
2. Flexibility: Laser emission and RF processing circuit adopt modular design mode, then the after sales service and foreign trader import entry become more convenient.
3. Reliability: The 19 "1U standard rack, built-in high-performance switching power supply, it can work at 85 - 265Vac MS level automatic switch, chassis cooling can be automatic control by temperature.
4. Intuition: Laser is the most expensive machine components, machine equipped with microprocessor monitors the working state of the laser, the panel LCD window displays the operating parameters.
5. Network type: Select All-piece status monitoring transponder guarantees to meet the national standard and be compatible with the SCTE HMS standard, it enables network management to monitor capabilities.
6. Double modules type: In the 19 "1U standard rack, there are one optical emission modules integrated to save application space.
7. Plug is draw-out type: switching power supply is draw-out type with aluminum profile structure, it helps greatly to cooling and replacement. Besides it can make dual supply cold-heat backup.