

FWT-1310T Series 1310 nm Optical Transmitters



1. Product Description

FWT-1310T series 1310 nm optical transmitter series products use the laser with the function of high linearity, light isolation, distributed feedback, thermoelectric refrigeration DFB from the famous company in the world such as the brands from United States XT, ORTEL, AOI, Japan Fujitsu etc. It provides High-quality image, digital or compressed digital signal transmission for cable television and telephone communications. The inner part of the device built-in RF driving amplifier and control circuit to ensure the CNR、CTB、CSO index of the whole device, improving optical power output stability circuit and temperature stability control circuit for thermoelectric chiller laser to ensure the best performance of the whole machine and the long life stability of the laser. Laser is the most valuable component of the device, and it is equipped with microprocessor. Microprocessor software monitors the working state of the laser, and the working parameters are displayed by the panel LCD. Once the operating parameters of the laser deviate from the allowable range set by the software, the microprocessor will automatically turn off the laser power supply. Yellow light flicker prompt alarm, and the panel LCD indicates the cause of the failure. (non-human factor can't damage laser). RF pre-distortion technique can obtain the maximum CNR under the condition of excellent CSO performance. Moreover, the transmitter with 19"1 U standard chassis, built-in high performance hot-pluggable dual switching power supply, can work in 85~265VAC city network voltage.

2. Product Feature

- ◆ Top quality: The original system optimization control technology and RF pre-distortion technology ensure the system to obtain the largest CTB, CSO and SBS indicators under the condition of excellent CNR performance
- ◆ Reliability: 19" 1U standard rack, built-in high-performance 1 + 1 hot backup power supply, which can work at 86 ~ 265Vac city network. MS automatic switching, and chassis temperature automatic control.
- ◆ Intuitive: The laser is the most expensive component of the device. The built-in microprocessor software monitors the working status of the laser, and the working parameters are displayed on the panel LCD. Once the laser working parameters deviate from the allowed range set by the software, the microprocessor will automatically turn off the laser power. The yellow light flashes to indicate an alarm, and the panel LCD indicates the cause of the failure.
- ◆ Network management type: SNMP network management, can realize the network management WEB monitoring function.
- ◆ Can be customized 2 outputs, optical power 5 ~ 7dBm output.

3. Technical Parameters

Item	Unit	Performance Parameter	Note
Laser Model		DFB	XT, ORTEL, AOI, Fujitsu
Wavelength	nm	1310±10	Specified Before Ordering
Optical Modulation Method		Directly Modulated	
Optical Output Power	mW	14~28	
Channel Number (Analog)	N	59	
Optical Connector		FC/APC or SC/APC	Specified Before Ordering
Frequency Range	MHz	47~750 (862)	
CNR	dB	≥52.0	
Flatness	dB	±0.83	
RF Input Signal Level	dBuV	72~88	
C/CTB	dB	≥65.0	
C/CSO	dB	≥65.0	
RF Input Impedance	Ω	75	
RF Input Reflection Loss	dB	> 16(47~550)MHz > 14(550~862)MHz	
Power Supply	V	90~265VAC	
Power Consumption	W	≤50	Hot-pluggable Dual Power Supply
Working Temperature	℃	0~50	Automatic Temperature Control
Storage Temperature	℃	-20~85	
Operating Relative Humidity	%	20%~85%	
Dimension	"	19"x15"x1.83"	(W) x (D) x (H)
Network Management Interface		RJ45	Supporting Web Browser and SNMP

4. Products Model Series

FWT-1310T -14 (optical output power, ≥ 14mW)
 FWT-1310T -16 (optical output power, ≥ 16mW)
 FWT-1310T -18 (optical output power, ≥ 18mW)
 FWT-1310T -20 (optical output power, ≥ 20mW)
 FWT-1310T -22 (optical output power, ≥ 22mW)
 FWT-1310T -24 (optical output power, ≥ 24mW)
 FWT-1310T -26 (optical output power, ≥ 26mW)
 FWT-1310T -28 (optical output power, ≥ 28mW)

