

FWT-1550DT Series 155nm Directly Modulated Optical Transmitters



1. Product Description

FWT-1550DT series of advanced 1550nm directly modulated optical transmitter, is mainly used in overlay insert systems to implement high-value and multi-functional local designed value-added services such as self-run programs. Low chirp, the output is the ITU standard wavelength, the RF driver adopts a self-developed RF predistortion circuit and a built-in perfect microcomputer automatic monitoring system to ensure the excellent performance index of the device.

FWT-1550DT series of advanced 1550nm directly modulated optical transmitter, suitable for 20 ~ 50 kilometers long distance transmission.

2. Product feature

- ◆ Top quality: The low chirp, high linearity AOI etc. laser, and RF pre-correction circuit are used to keep the C / CTB, C / CSO, and C / N indexes in the best state.
- ◆ Transmission range: 10 ~ 35kilometers for short distance transmission.
- ◆ Reliability: 19" 1U standard rack, built-in high-performance 1 + 1 hot backup power supply, which can work at 90 ~ 265Vac city network. MS automatic switching, and chassis temperature automatic control.
- ◆ Excellent performance-price ratio: suitable for FTTH triple play CATV from headend to end user.
- ◆ 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.
- ◆ Network management type: SNMP network management, can realize the network management WEB monitoring function.
- ◆ Can be customized 2 outputs, each optical power 6.5 dBm output.

3. Technical Parameters

Item	Unit	Performance Parameter	Note
Laser Model		DFB	AOI
Wavelength	nm	1550±10	
Optical Modulation Method		Directly Modulated	
Optical Output Power	mW	7~10	
Channel Number (Analog)	N	59	
Optical Connector		FC/APC or SC/APC	Specified Before Ordering
Frequency Range	MHz	47~1000	
CNR	dB	≥52.0	
Flatness	dB	±0.83	
RF Input Signal Level	dBuV	78±5	
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 1000MHz)	
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-1550DT -1X7 (1 way output power, ≥ 7dBm)
- FWT-1550DT -1X8 (1 way output power, ≥ 8dBm)
- FWT-1550DT -1X9 (1 way output power, ≥ 9dBm)
- FWT-1550DT -1X10 (1 way output power, ≥ 10dBm)

- FWT-1550DT -2X6.5 (2 ways output power, ≥ 6.5dBm)

