

FWT-2600 Series IF Satellite Optical Transmitter



1. Product Description

FWT-2600 series is a satellite TV directly modulated optical transmitter, which uses a high linear cooling DFB laser. It can transmit 960 ~ 2600MHz of 1 ~ 2 satellite TV signals on one optical fiber.

Compatible with any FTTx PON technology, it can achieve integration of satellite TV (DVB-S) + Internet. FWT-2600 series 1550nm satellite optical transmitter, which provides a complete set of high-quality, low-cost fiber-optic trunk transmission of satellite live television (DBS) for fiber-to-the-building (FTTB), fiber-to-the-fiber Home (FTTH) Solutions. To use along with Fullwell's CATV EDFA or WDM EDFA for long-haul and large-area FTTH triple play transmission.

FWT-2600 series uses a 1U 19" standard chassis. The working parameters of the device is controlled by a microprocessor. The LCD on the front panel provides status display and fault diagnosis. The built-in APC and ATC control circuits ensure laser the long service life and highly reliable operation. Two polarized power supply options for one satellite, which guarantees high-quality transmission of Satellite TV signals over optical fiber.

2. Product Feature

- ◆ High linear cooling DFB laser suitable for SAT-IF applications.
- ◆ Wide bandwidth: 950 ~ 2700MHz.
- ◆ Transmit 1 ~ 2 satellite signals.
- ◆ The optical transmitter can provide the same satellite with two polarized power supply options either with + 13VDC or + 18VDC.
- ◆ Two polarized power supply options for one satellite, which guarantees high-quality transmission of Satellite TV signals over optical fiber.
- ◆ Intuitive: The laser is the most expensive components of the whole machine. The built-in microprocessor in the machine monitors the external modulator and laser's working status, and the working parameters are displayed on the panel LCD.
- ◆ It can be used with CATV EDFA or WDM EDFA for long-haul and large-area transmission of FTTH triple play integration.
- ◆ Can be integrated and compatible with any FTTx PON triple play.

3. Technical Parameters

Items		Performance Index	Notes
Optical Index	Operating Wavelength (nm)	1548~1563	FWT-2600
	Output Power (mW)	3~10	1 ~ 2 Satellite Signal Optional
	Return Loss (dB)	≥50	
	Connector	FC/APC	SC/APC Optional
IF	Working Bandwidth (MHz)	960~2600	
	Input Level (dBmV)	5~15	AGC(OMI=1%)
	Flatness (dB)	±1.5	960~2600MHZ
	RF Input Return Loss (dB)	≥10	
	RF Input Impedence	75	50Ω Optional
	IF Connector	F-Femal	75Ω
	Transmitting Channel	36CH	Comment 2
	CNR(dB)	≥27	Noise Bandwidth 27MHz
	CTB(dB)	≤-36	
	CSO(dB)	≤-36	
	HUM(dB)	≤-60	
General Parameter	Power Supply (VAC)	90~265VAC	Hot-pluggable Power Supply
	Power Consumption(W)	≤50	
	Work Temperature (°C)	0~50	Automatic Mechanical Temperature
	Storage Temperature (°C)	-40~85	
	Operating Relative Humidity	5~95	

4. Product model series

FWT-2600-3, output power, ≥3dBm, 2mW
 FWT-2600-5, output power, ≥5dBm, 3mW
 FWT-2600-7, output power, ≥7dBm, 5mW
 FWT-2600-9, output power, ≥9dBm, 8mW
 FWT-2600-10, output power, ≥10dBm, 10mW

