

FWR-2600W, CATV+Satellite TV Optical Receiver With WDM



1. Product Description

FWR-2600W optical receiver is an FTTH CATV + SAT IF high-performance optical transmission equipment, suitable for CATV and satellite live TV transmission on the same network. Use high-bandwidth, high-sensitivity photocells, low-noise matching circuits and GaAs amplification, the device has receiving range $-15 \sim +2$ dBm, and AGC stable output: $-12 \sim -2$ dBm. In order to facilitate the use of the user, the device is also equipped with a working power and light power receiving monitoring LED indicator on the panel.

FWR-2600W WDM optical receiver, with PON interface, can be compatible with any FTTx PON technology, which achieves multi-network integration of CATV + satellite TV (DVB-S) + Internet. It can be used along with Fullwell WDM EDFA for large-area FTTH triple play transmission and coverage.

2. Product Feature

- ◆ PIN receiving optical power, -1dBm receiving sensitivity, AGC receiving range: $-2 \sim -12$ dBm, stable output level: 82dBu.
- ◆ Wide bandwidth: 47 ~ 2600MHz working bandwidth.
- ◆ One fiber can receive 10CH of Analog TV, Digital TV (DVB-C), Satellite TV (DVB-S) signal and CATV radio frequency RF signal at the same time.
- ◆ It can be used along with WDM EDFA for long-haul and large-area transmission of FTTH triple play integration.
- ◆ Industry-leading 5V power adapter, non-stop work design for more than 5 years.
- ◆ Can be integrated and compatible with any FTTx PON triple play.

3. Technical Parameters

	Items	Unit	Performance Index	Note
IF	Frequency Range	MHz	950~2600	Benchmark: 950~2400
	Output Level	dBuV	82±1	AGC:-2~-12dBm
	Flatness	dB	-1.5~+1.5	-1.0~+1.0/950~2400MHz
	Output Return	dB	12	14/950~2400MHz
	Channel Load	CH	10	Analogue TV
			64QAM	Digital TV
			36	QPSK or FM
	IM3	dB	-65	
	HUM	dB	-60	
	IP1	dBm	18	
	Output Impedance	Ω	75	50Ω Optional
RF Connector		75Ω/F-female	50Ω/SMA-F	
Optical Index	Receiving Wavelength	nm	1310,1490,1550	
	PON Wavelength	nm	1310/1490	
	CATV Wavelength	nm	1540~1565	
	Isolation	dB	≥40	1310/1490nm &1550nm
	Responsivity	A/W	≥0.9	
	Input Optical Power	dBm	+2~-15	
	Return Loss	dB	≥55	
	Input Connector	/	SC/APC	
	PON Connector	/	SC/UPC	SC/APC Optional
RF	Bandwidth/Flatness	MHz/dB	47-1000	±1
	Output Level	dBuV	AGC: 82±1	AGC:-2~-12dBm
	Return Loss	dB	≥14	75Ω Characteristic Impedance
	CNR/MER	dB	≥44/34	PAL-D60CH,OMI3.8%,-9dBm
	CTB/CSO/HUM	dB	≥65/≥60/≥60	-1dBm receive
General Parameter	Power	V/W	AC90~250V→DC5/3	Non-stop Work Design For More
	Working / Storage	°C	-35~50/-40~75	Humidity 5~90%
	Dimension	mm	92×82×23	

4. Product model series

FWR-2600, CATV+Satellite TV Optical Receiver

FWR-2600D, CATV+Satellite TV Optical Receiver With Filter, only pass 1550nm

FWR-2600W, CATV+Satellite TV Optical Receiver With WDM

