

FWR-2600, CATV+Satellite TV Optical Receiver



1. Product Description

FWR-2600 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-2600 satellite TV + CATV optical receiver, can be used along with Fullwell CATV EDFA for large area FTTH transmission and coverage. The device has two options, with filter or WDM, can be integrated and compatible with any FTTx PON technology, achieving multi-network integration of CATV + satellite TV (DVB-S) + Internet.

2. Product Feature

- ◆ PIN receiving optical power, -1 dBm receiving sensitivity, AGC receiving range: $-2 \sim -12$ dBm, stable output level: 82dBu.
- ◆ Wide bandwidth: $47 \sim 2600$ MHz 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 CATV EDFA for long-haul and large-area FTTH transmission.
- ◆ Industry-leading 5V power adapter, non-stop work design for more than 5 years.
- ◆ The device has two options, with filter or WDM, 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	1100~1600	FWR-2600D With Fliter:1550 FWR-2600W With WDM: 1310/1490nm &1550nm
	Isolation	dB	≥40	
	Responsivity	A/W	≥0.9	
	Input Optical Power	dBm	+2~-15	
	Return Loss	dB	≥55	
	Input Connector	/	SC/APC	SC/UPC 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

