

FWR-8620FG, Outdoor 2-Way Optical Receiver



1. Product Description

FWR-8620FG is an outdoor two-way low optical power receiving product, designated to CATV optical fiber access network fiber to the last optical node. This device uses an optoelectronic amplifier integrated module. The center and power amplifiers use gallium arsenide chips and power amplifier modules. The maximum output level can reach 1×110 or 2×106 dBuV. The device is also equipped with a high-precision surge protection switching power supply. AGC automatic output level control, LED digital display of light receiving power in dBm. High-pressure ball light power supply and blue light indicator of light receiving power. Equipped with optional network management transponder, which can realize the HFC network management system monitoring function through the local area network. It is the last optical node equipment of the triple play integration network ideal for broadcasting and television operators

2. Product Feature

- ◆ PIN optical receiving power, -1dBm receiving sensitivity, AGC receiving range: +2 ~ -7dBm, output stable level: 2×106 dBuV or 1×110 dBuV.
- ◆ Wide bandwidth type: 47 ~ 1000MHz working bandwidth.
- ◆ FWR-8620FG network management functions can be customized. Just connect the RJ45 interface signal to the local area network, and then connect to the main server, install the standard HFC network equipment management system application software on the network management main server (PC), when running the network management system, you can monitor the real-time running status of the device.
- ◆ Connect the optical signal according to the function of the panel. When the blue indicator light corresponding to the received optical power is on, and the LCD display optical power in dBm. Then measure the RF output level, the RF is set as factory standard level, replace the attenuator according to the amount of transmission channels to meet the design level requirements. If the output requires inverted equalization, the

equalization amount can be adjusted, and the output power can be appropriately increased after the inverted equalization level.

◆ FWR-8620FG is usually installed in the chassis, the chassis shell must be grounded, the grounding resistance should be less than 4Ω . The power supply shell of the feeder must also be grounded, the grounding resistance is the same as above, and the cable, power supply shell and the device shell should be connected at the same position, the chassis must be grounded before it is powered by city network voltage.

3. Technical Parameters

Items	Unit	Parameter
Optical Wavelength	nm	1310/1550
Frequency Range	MHz	47/87 ~ 862
Flatness	dB	± 0.75
Optical Input Power Range	dBm	-8 ~ +2dBm (Typical-1)
Output Level	dBuv	1×110 or 2×106
AGC Feature	dB	$\pm 1(-6 \sim +1\text{dBm})$
C/N, CTB, CSO	dB	$\geq 51, 65, 62(\text{nominal output})$
Return Loss of RF Port	dB	$\geq 16\text{dB}(47/87 \sim 862)$
Equivalent Output Noise Current	PA/ $\sqrt{\text{Hz}}$	≤ 8
Test Port Accuracy	dB	-20 ± 1
Connector & Return Loss	dB	SC/APC or FC/APC/ ≥ 45
RF Connector		FL-10 Male or Female
Operation & Storage Temperature	$^{\circ}\text{C}$	-30 ~ +45/-40 ~ +65
Operation/Storage Humidity	%	5-95
Power Supply /Consumption	V/W	City Power 155 ~ 255 or Feed 35 ~ 75/17
Surge Protection	Kv	5
Dimension	mm	250×205×150/ Cable hanging span 135

4. Product Model Series

FWR-8620FG, Outdoor 2-Way Optical Receiver

FWR-8640FG, Outdoor 4-Way Optical Receiver

