

FWR-1000W Passive WDM Optical Receiver



1. Product Description

FWR-1000W is designed as a novel equipment for special requirement of CATV industry. It is catering to object of passive terminal receiving equipment for FTTH 1310/1490/1550nm signals, realizing 1550nm receiving and PON signals transferring, which FTTH projects combining CATV and PON signals easier. It is very convenient as just plug and play and also energy-saving. This equipment adopts high isolation WDM & high sensitive optical receiving tube and exchanges 50dBuV analog level while receiving as -9dBm (44 dBuV digital level). It is superior fitting for FTTH application in place of faraway village, construction site and etc due to the advantages of powerless, no consumption, economic and flexible.

2. Product Feature

- ◆ Only WDM & optical electric exchanging parts, average fault-free time is over 150 thousands hours;
- ◆ Optical in: SC/APC, Optical out: SC/UPC, output ports have F type metric/inch screw, nut base, F base and RF to choose.
- ◆ Superior low optical power receiving, 1540-1565nm inputting, plug and play, PON insert loss ≤ 0.8 dB
- ◆ No external power source required, no consumption, safe and energy conservation
- ◆ Can be compatible with any FTTH PON or customized XGS-PON triple play optical network.
- ◆ Plastic enclosure with white top cover and black base, exquisite texture appearance, to demonstrate brand strength.

3. Technical Parameters

	Item	Unit	Performance Parameter
Optical characteristic	Input wavelength	nm	1310,1490,1550
	PON wavelength	nm	1310,1490
	Operation wavelength	nm	1540~1565
	Channel separation	dB	≥40(1310/1490nm and 1550nm)
	Response	A/W	≥0.9
	Receiving power range	dBm	0~-12 (advice -1~-6)
	Reflection loss	dB	≥45
	Optical connector	/	Optical-IN:SC/APC, PON:SC/UPC
RF characteristic	Bandwidth/flatness	MHz/dB	47~1000/≤±2
	Output Level	dBuv	66(0dBm receive)-48(-9dBm receive)
	RF output interface	/	Female or RF
	CNR/MER	dB	≥44/34(0dBm), ≥38/29(-6dBm)
	CTB/CSO/HUM	dB	≥70/≥66/≥60(-3dBm/60dBuv)
Other requirement	Working/storage	°C	-30~55/-40~75
	Working/storage humidity	%	Humidity(5%-90%)(No Condensation)
	Size	mm	78×60×22.5

4. Product Model Series

FWR-1000W Passive WDM Optical Receiver

FWR-1000 Passive Filter Optical Receiver

