

UNYX

FWR-8610RW

FTTH WDM OPTICAL RECEIVER



FWR-8610RW WDM Optical Receiver Instructions

1. Introduction

Fiber to the home (FTTH) broadband access is the ultimate development goal, FWR-8610RW optical receiver is the target terminal products for this goal. FWR-8610RW device adopts technology of high isolation WDM in order to separate CATV and ONU signal. Furthermore, it also adopts low optical power receiving and RF-AGC control technique, which could achieve the requirement of $\leq -10\text{dBm}$ CATV receiving for FTTH. The optical power receiving monitoring indicator LED ($\geq -15\text{dBm}$) is provided on the pane and it supports RF outputs constantly, convenience of customers uses, which is the ideal receiver equipment for FTTH.

2. Main Performance Parameters

	Item	Unit	Performance Parameter
Optical characteristic	input wavelength	(nm)	1310,1490,1550
	Output wavelength	(nm)	1310,1490
	operation wavelength	(nm)	1540~1560
	channel separation	(dB)	≥40 (1310/1490nm and 1550nm)
	response	(A/W)	≥0.9
	receive power range	(dBm)	+2~-15
	reflection loss	(dB)	≥55
	fiber linker	/	SC/APC
	PON linker	/	SC/UPC (or SC/APC)
RF characteristic	Bandwidth/flatness	MHz/dB	47-1000/≤±1
	output level	dBuv	AGC: 82±1/(-2~-10dBm)
	reflection loss	dB	≥14 (75Ω characteristic impedance)
	RF output interface	/	1-way output
	CNR/MER	dB	≥44/34(PAL-D 60CH, OMI3.8%, -9dBm)
	CTB/CSO/HUM	dB	≥65/≥60/≥60(-1dBm receive)
Another requirement	power supply/consumption	V/W	External AC100~240V→DC5/5
	working/storage temperature	°C	-35~50/-40~75(humidity 5~90%)
	size	mm	95×92×23

3. Direction for Use

3.1 Power Input

POWER IN:FWR-8610RW is the external power supply input port, first should be the DC+5 V external voltage stabilizer output line connected to the device POWER IN, then put DC+5V external mano-stat insert 100/240 V, DC5V Face posted power light, show power part is regularly working.

3.2 Optical Fiber Input

OPTICAL IN:FWR-8610RW is input interface of optical signal, in optical access should clean APC TOP by alcohol ,than align adapter sunken mouth, fiber mouth march link; when optical signal accesses (≥-15dBm) then lights on in panel, which shows optical part is regularly working; lights will be changed by receive power as yellow(>+2dBm), green(+2~-15dBm) and red (<-15dBm).ONU is 1490/1310nm connection interface, please do not take off the cover before you use.

4. Install Test Matter Need Attention

4.1. FWR-8610RW device is indoor type structure, not to be used in place of harassment by the rain; Packed in the box of the indoor appropriate space, for cooling; The output of the cable shielding network must be grounded, Grounding resistance should be less than 4 Ω, the local power supply for electrical shell has to be grounded, Above ground resistance.

4.2. Tail fiber input and output cable has to be reserved certain

use, FWR-8610RW device is with SC/APC, PON link with SC/UPC (or SC/APC).

5. Attachment

FWR-8610RW Outlay power supply, AC100~240V DC5V 500mA 1 PCS.