



WDM Optical Receiver (FWR-8610W)

Fiber to the home (FTTH) broadband access is the ultimate development goal, FWR-8610W optical receiver is the target terminal products for this goal. FWR-8610W device adopts technology of high isolation WDM in order to separate CATV and ONU signal. Further more, it also adopts low optical power receiving and RF-AGC control technique, which could achieve the requirement of $\leq -12\text{dBm}$ CATV receiving for FTTH. The optical power receiving monitoring indicator LED ($\geq -18\text{dBm}$) is provided on the pane and it supports RF outputs constantly , convenience of customers use, which is the ideal receiver equipment for FTTH.

FEATURES

Power Input

POWER IN : FWR-8610W is the external power supply input port, First should be the DC+12 V external voltage stabilizer

output line connected to the device POWER IN, than put DC+12V external manostat insert 100/240 V, DC12V Face posted

power light, show power part is regularly working.

Optical Fiber Input

OPTICAL IN : FWR-8610W is input interface of optical signal, In optical access should clean UPC TOP by alcohol , than

align adapter sunken mouth、 fiber mouth march link; When optical signal accesses ($\geq -18\text{dBm}$) then lights on in panel,

which shows optical part is regularly working; ONU is 1490/1310nm connection interface, please do not take off the cover

before you use.

RF Output Level Adjustment

RF OUT : FWR-8610W is RF output port,when optical input -2~-15/-18dBm,RF output 78/70dBuv±1

ADJ :

it is RF Output level attenuator, default value is the minimum.When the output level and the design requirements

has any deviation, it can adjust the attenuation amount, with the design requirements.This device is low optical power receive,

suggest -18 ~ -12 dBm advisable.

SET AND OPERATION

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
RF characteristic	Bandwidth/flatness	MHz/dB 47-1000/≤±1
	output level	dBuv AGC: 78±1/(-2~-12dBm)
	output level adjustment	dBm 0~-18
	reflection loss	dB ≥14 (75Ω characteristic impedance)
	RF output interface	/ Metric (two way output)
	CNR/MER	dB ≥44/34(PAL-D 60CH,OMI3.8%,-9dBm)
	CTB/CSO/HUM	dB ≥65/≥60/≥60(-1dBm receive)
Other requirement	power supply/consumption	V/W External AC100~240V→DC12/5
	working/storage temperature	°C -35~50/-40~75(humidity 5~90%)
	size	mm 130×60×22