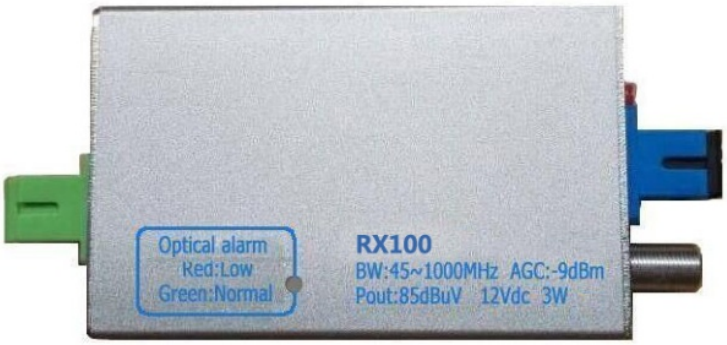
ZISA RX100

WDM Optical Receiver

Input 1550/1490/1310nm, Output 1490/1310nm and CATV



RF

1. Introduction

Fiber to the home (FTTH) broadband access is the ultimate development goal, RX100optical receiver is the target terminal products for this goal. RX100 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 couldachieve the requirement of ≤-9dBm CATV receiving for FTTH. The optical power receiving monitoring indicator LED (≥-15dBm) is provided on the pane and it supports RF outputs constantly , convenience of customers use, 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
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	℃	-35～50/-40～75(humidity 5～90%)
	size	mm	130×60×22

3. Direction for Use

3.1 Power Input

POWER IN：RX100 is the external power supply input port, First should be the DC+12 V external voltage

3.2 Optical Fiber Input

OPTICAL IN：RX100 is input interface of optical signal,in optical access should clean APC TOP by alcohol ,than align adapter sunken mouth, fiber mouth march link;whenoptical signal accesses（≥-15dBm）then lights on in panel, which showsoptical part is regularlyworking;lights will be changed by receive power as yellow(>2dBm), green(2～-12dBm) and red (<-12dBm).ONU is 1490/1310nm connection interface, please do not take off the cover before you use.

3.3 RF Output Level Adjustment

RFOUT：RX100 is RF output port,when optical input -2～-12dBm,RF output 78dBuv±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.Thisdevice is low optical power receive, suggest-12 ~-9dBm advisable.

4. Install Test Matter Need Attention

4.1. RX100device is indoor type structure,Not to be used in place of harassment by the rain;Packed in the box of the indoor appropriate space,Forcooling;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 length,Reduce accident's occurrence; optical interface do not move if not use, RX100device is with SC/APC,do not link with SC/UPC.

5. Attachment

RX100power supply, AC100～240V DC12V500mA　1PCS.

ZISA Corporation Limited

Tel: +86-10-52885062 Fax:+86-10-58236899

Mail to : sales@zisacom.com.cn

URL: http://www.zisacom.com.cn

Specifications are subject to change without notice.