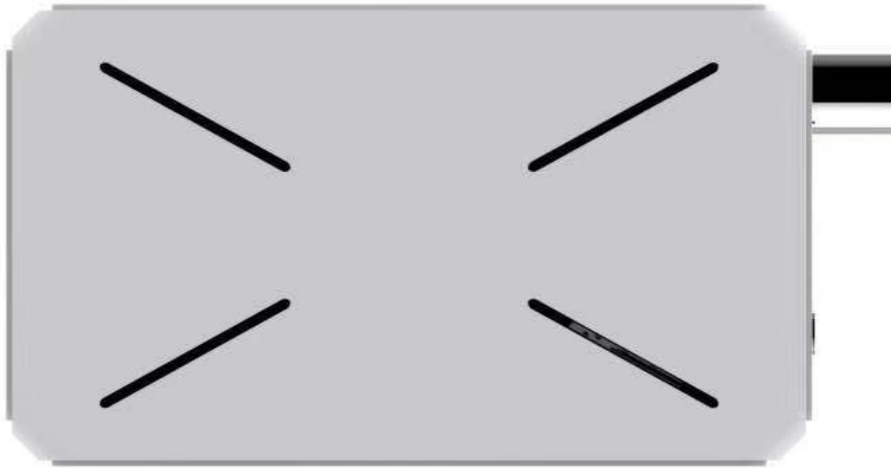


# FT-1000WMC

## FTTH OPTICAL RECEIVER with WDM



### 1. Introduction

Fiber to the home ( FTTH ) broadband access is the ultimate development goal, FT-1000WMC optical receiver is the target terminal products for this goal. This 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 therequirement of  $\leq -9\text{dBm}$  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 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
	CATV operation wavelength	(nm)	1540~1560
	channel separation	(dB)	$\geq 40$ ( 1310/1490nm and 1550nm)
	response	(A/W)	$\geq 0.9$
	receive power range	(dB)	+3~-18
	reflection loss	(dB)	$\geq 55$
	fiber linker	/	SC/APC



RF char acter istic	Bandwidth/flatness	MHz/dB	47-1000/±1
	output level	dBuv	82/76/70±1/(0~-9/-12/-15dBm)
	output level adjustment	dB	0~-18
	reflection loss	dB	≥14 (75Ω characteristic impedance)
	RF output interface	/	Metric (one way output)
	CNR/MER	dB	≥44/34(PAL-D 60CH,OMI3.8%,-9dBm)
	CTB/CSO/HUM	dB	≥65/≥60/≥60(-1dBm receive)
Othe r requi reme nt	power supply/consumption	V/W	External AC155~255V→DC12,/5
	working/storage temperature	°C	-35~50/-40~75(humidity 5~90%)
	size	mm	130×60×22

### 3. Direction for Use

#### 3.1 Power Input

POWER IN: It 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 mano-stat insert 100/240 V,DC12V Face posted power light, show power part is regularly working.

#### 3.2 Optical Fiber Input

OPTICAL IN: It 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;ONU is 1490/1310nm connection interface, please do not take off the cover before you use.

#### 3.3 RF Output Level Adjustment

RF OUT: It is RF output port,when optical input -2~-9/-12/-15dBm,RF output 82/76/70dBuv±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-12 ~-9 dBm advisable.

### 4. Install Test Matter Need Attention

4.1. This 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 length,Reduce



accident's occurrence; optical interface do not move if not use, This device is with SC/APC,do not link with SC/PC.

