

FTTH Optical Node



I. Product description

FTTH optical receiver is specifically designed for CATV HFC network with FTTH structure. Its main feature is low power consumption, AGC optical constant level output, small Volume and high reliability. Adopting aluminum alloy shell, with optical control AGC circuit built in, compact structure and external modular power supply make the installation and debugging very conveniently. It is an ideal product to build FTTH CATV network.

II. Product feature

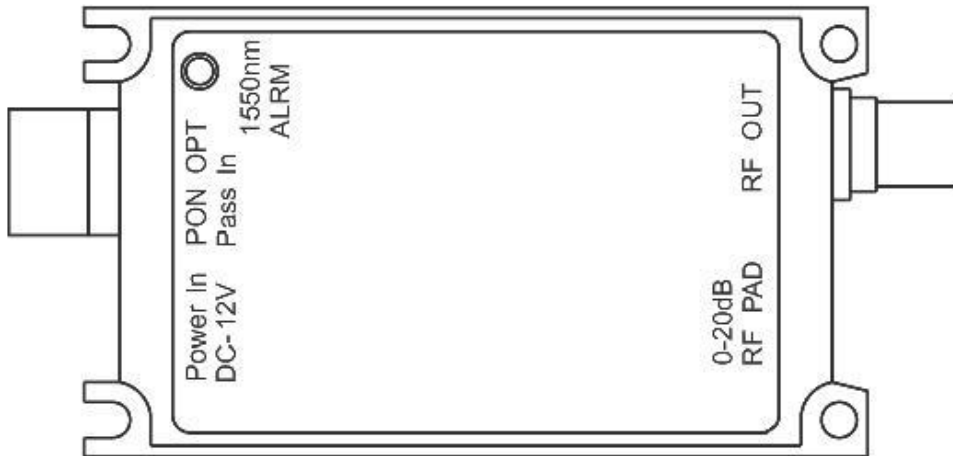
1. 1310nm and 1550nm working wavelength.
2. LED indicate for optical input alarm.
3. High-performance AGC control circuit insure optical output stability

III Technical Parameters:

Item	Unit		
Optical Parameters			
Optical Wavelength	nm	1290~1600	
Optical Input Range	dBm	-17~+3	
AGC Control Range	dB	-7~+2	
Optical Return Loss	dB	≥45	
Optical Connector		SC/APC or FC/APC	
RF Parameters			
Bandwidth	MHz	47~1000	
Flatness	dB	±1.5	
RF Output Level	dBuV	≥82 (AGC Control: -7~+2dBm)	
Optical Return Loss	dB	≥14dB (47~1000MHz)	
Optical Impedence	Ω	75	
MGC Control Range	dB	0~20±2	
RF connector		F-5	
Link Parameters			
CTB	dB	≥65@-8dBm	
CSO	dB	≥65@-8dBm	
CNR	dB	≥48@-8dBm	
Others			
Power Supply	Input Voltage	V	110~240 AC@50/60Hz
	Output Voltage	V	12 <u>DC@0.5A</u>
Power Consumption	W	<3	
Working Temp	°C	-20~+50	
Working Humidity	%	0-90%	
Size	mm	112(L)*50(W)*22(H)	

IV、 Structure:

1、 Program:



2、 LED Indicate:

Equipment	LED	Items	Color	Status	
FTTH Optical Receiver	1550nm ALRM	Power Supply Indicate	Red /Yellow Green/	OUT	Power Supply OFF
				Bright	Power Supply ON
		Optical Input Indicate		Red	Optical input range < 16dBm
					Optical input range > +2dBm
					No optical Input
				Green	Optical input range: -14dBm to +2dBm
Yellow	Optical input range: -16dBm to -14dBm				

V、 Repairing and maintenance

1、 No output signal: Please check if the power supply is normal, if the optical receiving power is within the certain range, and also, check if the cable connector is well connected.

2、 If three items above are all normal, there may be problem with the inner circuit, user should NOT open the unit to repair without getting permission from the supplier, in order to prevent any safety accident, Please contact supplier before returning for repairing.

3、 ONE year warranty period, material cost and labor fee will be charged after ONE year.