

ACE: WR1001J SKU: WR1001J

WR1001J Optical Receiver

1 Product Overview

WR1001J 1GHz FTTB optical receiver, with wide range receiving optical power, high output level and low power consumption.Built-in single chip microcomputer and embedded program, can monitor various parameters in the machine, cooperate with key operation to realize electric control EQ and ATT adjustment.



There are three models optional:

NC	Operating wavelength :1100 ~ 1620nm.		
WF	Built-in optical filter, operating wavelength:1550nm.		
WD	Built-in WDM, operating wavelength:1550nm, PON wavelength 1310/1490nm looping out.		



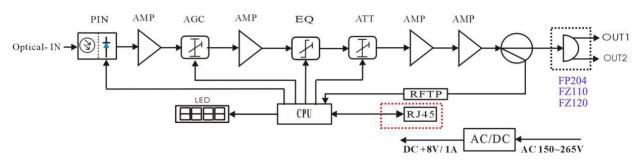
Specification



2 Features

- With optical AGC function, range adjustable.
- Full MMIC amplification circuit, low power consumption. •
- Electric control ATT and EQ, 0~15dB。
- Can be equipped with Ethernet transponder, support remote network management (optional);
- Metal shell, good heat dissipation and durability.
- Built-in high reliability power supply.
- Various outputs are optional.
- Can be equipped with WDM, PON wavelength looping out.(optional).

3 Block Diagram



Note: The part in dashed box is optional.



Specification



4 Technique Parameter

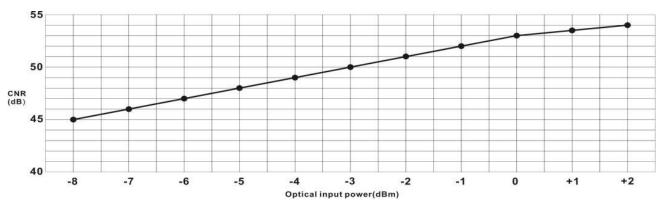
lechnique Parameter				
Item	Unit	Technical Parameters		
Optical Parameters				
Receiving Optical Power	dBm	-9 ~ + 2		
Optical AGC range	dBm	(-9dBm/-8dBm/-7dBm/-6dBm/-5dBm/-4dBm) ~ (+2dBm) adjustable		
Optical Return Loss	dB	>45		
Optical Receiving Wavelength	nm	1100 ~ 1600		
Optical Connector Type		SC/APC or specified by the user		
Fiber Type		Single mode		
RF Parameters				
Frequency Range	MHz	45 ~860/1003		
Flatness in Band	dB	±0.75		
Rated Output Level	dΒμV	≥ 108	FZ110output	
		≥ 104	FP204output	
Max Output Level	dΒμV	≥ 108	FZ110output, -9 ~ +2dBm	
Output Return Loss	dB	≥16		
Output Impedance	Ω	75		
Electrical control EQ range	dB	0~15		
Electrical control ATT range	dB	0 ~ 15		
C/N	dB	≥ 51		
C/CTB	dB	≥ 60	59PAL-D+QAM256, -1dBm optical	
C/CSO	dB	≥ 60	receiving, FZ110 108dBuV output, EQ 8dB	
General Characteristics				
Power Voltage	V	AC (150~265) V or DC 12V/1A External power supply		
Operating Temperature	$^{\circ}\!$	-40~60		
Power Consumption	VA	≤ 8		
Dimension	mm	190 (L) * 110 (W) * 52 (H)		



Specification







6 Function Display and Operating Instruction

Mode: Mode selection button, total eight modes. Press the mode selection button to enter the corresponding status display, eight modes to cycle. The following is the detailed instructions:

