

# FTTH2000S RFOG Single Fiber Bi-directional Optical Receiver

**MODEL: FTTH2000S/RFOG**



## Product Overview

FTTH2000S/RFOG for users in terminal network system. New mechanical and electrical design provides greater robustness, flexibility, and improve the performance of the uplink channel. FTTH2000S installed on the user's location, providing the RF optical network from the network to the transition and provide the interface to the user's internal wiring. In the downstream direction, it contains an optical receiver RF signal converted back to its original form and an RF amplifier, RF signal to provide a specified level of access to family. Connect the RF output is a standard female "F" connector can also be used from home through the local power supply into the device. The second "F" port available as a dedicated power supply scheme is preferred. In the upstream direction, including a light transmitter for RF signals, via cable modems and set-top boxes generated within the customer's location back to the front. The new transmitter driver circuit to provide a higher uplink RF input level the same link performance.

To prevent unwanted RF signals entering the network, the reverse transmission circuits using the threshold, and prevent the signal level below the pre-set to activate it. If the signal from the Inside the residence back below this threshold, the transmitter will not be activated. In order to work in a single fiber-optic network, also includes a WDM filter, multiplexing uplink downlink 1310 and 1550nm wavelengths. The circuit is mounted in a metal casing to protect the electronics from the external environment and provide a high level of shielding radio frequency interference.

## Features

- 1 GHz of RF spectrum
- Transparent return path
- Return transmission threshold
- Lower RF drive level
- High RF output
- Aluminum alloy casing
- "F" port power

## Benefit

- RF capacity expansion
- Allows use of existing CPE
- Suppress noise from the user's home
- To achieve higher link performance
- Reduce the need for amplifiers in the family
- Protect and provide excellent electromagnetic shielding
- Allows In-home Powering Over Coax Cabling

### Specifications

Receiver Specifications		Transmitter Specifications	
Input Wavelength Optical	1550 nm	Output Wavelength	1310 nm (Nom)
Frequency Bandwidth	54 to 1000 MHz	Optical Output Power*	>1mw
Input Power	-6 to +1 dBm	Frequency Bandwidth	5 to 42 MHz
RF Output Level	>85dB $\mu$ V	RF Input Range	30 to 55 dBmV
CNR*	>48 dB	RF Input Activation Level	30 dBmV (TYP)
CSO**	<-58 dB	Flatness	$\pm$ 1.0 dB
CTB**	<-60 dB	CNR	>37 dB
Return Loss	>14 dB	CSO	<-40 dB
Impedance	75	CTB	<-40 dB
RF Connection	F Female	Power Supply	12V DC
Optical Interface	SC/APC	Power Consumption	3.8w
Weight	0.2kg	Dimensions (h x w x d)	125*90*28
Type	Key Parameters		
FTTH1531	RX 1550 nm, TX 1310 nm WDM		
FTTH1561	RX 1550 nm, TX 1610 nm WDM		
FTTH1351	RX 1310 nm, TX 1550 nm WDM		

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