

CATV Fiber Optic Receiver

This CATV fiber optic receiver is compatible with GPON and EPON for FTTx PON networks. It offers excellent linearity and a wide range of optical input power.



Product Overview

High-Performance FTTH Optical Receiver

This CATV Fiber Optic Receiver is specifically designed for Fiber To The Home (FTTH) networks, offering compatibility with GPON, EPON, and all FTTx PON technologies. It features GaAs amplifier active devices and ultra-low noise technology to ensure excellent linearity and flatness across a wide range of optical input power. Its compact size and plug-and-play design make it an ideal solution for modern cable television distribution and optical communication applications.

Key Features

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- Designed for FTTH (Fiber To The Home) networks
- GaAs amplifier active devices for superior performance
- Ultra low noise technology
- Excellent linearity and flatness
- Single-mode fiber with high return loss
- Compact size for easy installation
- Red-LED power indicator
- Dual-color LED optical power monitoring

Available Model Variants

Model	Functionality
ORH-1040	Standard Type
ORH-1040F	Built-in Filter
ORH-1040A	AGC Function
ORH-1040AF	Built-in Filter and AGC Function

Optical Performance

Optical Performance

0.9 A/W

Responsivity

45 dB

Optical Return Loss

Input Wavelength	1260 ~ 1600 nm
Input Optical Power	-10 to +3 dBm

RF Performance

Signal Quality (CNR/CSO/CTB)

- CNR: e50 dB
- CSO: e62 dB
- CTB: e65 dB

Frequency Range	47 MHz
Max Frequency	1000 MHz
Output Level	80 dB μ
Flatness	\pm 0.75 dB
Output Impedance	75 Ω

Interfaces & Power

Connectors

Interface	Type
RF Connector	F-female
Optical Connector	SC/APC
Power Supply	DC2.1

Power Supply Voltage	12 VDC
Power Consumption	< 2 W

Compliance & Quality

Certifications

CE