

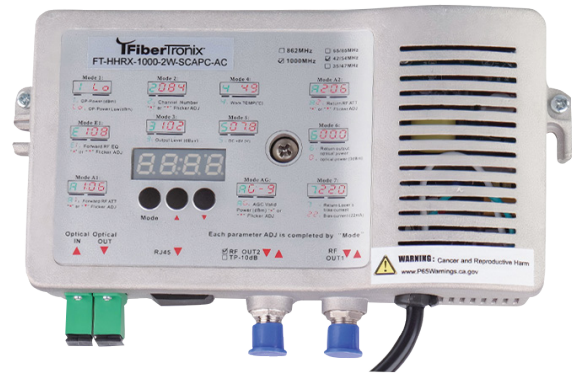
FT-HHRX-1000-2W-SCAPC-AC

CATV Optical Receiver – Mini Node FTTH Fiber Optic Receiver

This compact FTTH optical receiver provides advanced 1 GHz bidirectional performance, making it ideal for FTTB applications. Designed for high-efficiency networks, it features a wide optical power receiving range, high RF output levels, and low power consumption — making it an ideal solution for building high-performance CATV systems.

Key Features

- RF Output: Up to +48 dBmV
- Wideband Operation: 45–1,000 MHz
- Split: 42/54 MHz (Bidirectional)



- Connector: SC/APC
- Low Power Consumption: ≤ 9 VA

Forward Optical Receiver

Optical Parameters

Receiving Optical Power	-9 - +2 dBm
Optical AGC Range	+2 - -9/-8/-7/-6/-5/-4 (adjustable) dBm
Optical Return Loss	>45 dB
Optical Receiving Wavelength	1100- 1600
Optical Connector Type	SC/APC or specified by the user
Fiber Type	Single mode

Link Performance

C/N	≥ 51 dB
C/CTB	≥ 60 dB
C/CSO	≥ 60 dB

RF Parameters

Frequency Range	54-1000 MHz
Flatness in Band	± 0.75 dB
Rated Output Level	+48 dBmV
Max Output Level	+48dBmV (-9 - +2dBm Optical power receiving) +52dBmV (-7 -+2dBm Optical power receiving)
Output Return Loss	≥ 16 dB
Output Impedance	75 Ω
Electrical control EQ range	0 - 15 dB
Electrical control ATT range	0 - 15 dB

Return Optical Parameters

Optical Parameters

Optical Emission Wavelength	1310 \pm 10, 1550 \pm 10 nm
Output Optical Power	1 mW
Optical Connector Type	SC/APC

RF Parameters

Frequency Range	5 - 42 MHz
Flatness in Band	± 1 dB
Input Level	+15 - + 25 dBmV
Output Impedance	75 Ω
NPR dynamic range	≥ 15 (≥ 30 dB NPR). Requires DFB laser

General

Power Voltage	AC 150 - 265V or DC 12V
Operating Temperature	-22 - 140°F (-30 - 60°C)
Storage Temperature	-40 - 149°F (-40 - 65°C)
Relative Humidity	Max 95% No Condensation
Consumption	≤ 9 VA
Dimension	7.48 x 4.33 x 2.05"(190 x 110 x 52 mm)
Weight	2.2 lbs (1 kg)
Warranty	1 Year Limited Warranty