

# FiberTronix™ FT-HHRX-870-1-SCAPC

## FTTH Mini Optical Node

### Features:

- Working wavelength: 1200-1600 nm
- 54-870 MHz receive frequency range
- 5-42 MHz reverse frequency range
- Wide Optical input range -8 dBm to +2 dBm
- Forward and reverse RF test points
- Die-cast aluminium housing
- 75 Ohms
- Laser type: FP



### Description:

The FT-HHRX-870-1-SCAPC series is a state of the art fiber node designed for FTTH (fiber to the home) applications. With a receive frequency range of (54-870)MHz, the unit offers flexibility in operation and maintenance. GaAs FET technology provides low distortion and a flexible input level. Featuring low power consumption and a surge protected design the FT-HHRX-870-1-SCAPC series is perfect for commercial and residential applications. This series features an integrated return path transmitter with a reverse frequency range of (5-42)MHz. The automatic gain control (AGC) function has been specially designed to simplify installation and network maintenance by compensating for changes in optical input power. The unit provides a stable RF output level when fed with input levels between -8dBm and +2dBm.

### Specifications:

#### Forward Optical

Input Optical Power Range	-8 to +2 dBm
Equivalent Input Noise Current	<4pA/√Hz
Working Wavelength	1200 - 1600 nm
Optical Connector	Specify SC/APC

#### Forward RF

Bandwidth	54-870 MHz
Flatness	+/-0.75 dB
Impedance	75 Ohms
RF Output Level	24 +/-2dBmW @ -6 dbmW
RF Return Loss	≥18 dB
RF Test Point	-20 dB +/-0.75 dB
RF Output Stability	+/-0.5 dB
Carrier to Noise Ratio (CNR)	>46 dBc
Composite Triple Beat (CTB)	>70 dBc
Composite Second Order (CSO)	>65 dBc

#### Reverse Optical

RF Test Point	-20dB +/-0.75 Db
Laser Type	FP
Optical Output Power	≥0 dBmW
Optical Wavelength	1310nm
Carrier to Noise Ratio (CNR)	>45 dBc
Composite Triple Beat (CTB)	>45 dBc
Composite Second Order (CSO)	>45 dBc

#### Reverse RF

Passband	5-42 MHz
Flatness	+/-0.75 dB
Impedance	75 Ohms
RF Return Loss	-16 dB
RF Input Level	+20 dBmV

#### General

Operating Temperature	-40°F to +140°F
Power Supply	12VDC, 300mA
Power Consumption	4 Watts
Surge Protection	6 KV
Dimensions	5"W x 4.5"H x 1.25"D

### Ordering Information:

#### FT-HHRX-870-1-SCAPC

Fiber optic receiver with SC/APC fiber input

### Contents Include:

- 1 Fiber optic node
- 1 Power supply