

FT-SAT-RX-6

Wideband Satellite L-Band RF Fiber Optic Receiver

The FiberTronix L-Band fiber optic Receiver intakes up to 6 multiplexed RF Satellite signals carried over single-mode fiber from a corresponding FiberTronix Transmitter. The unit outputs up to 6 separate frequencies in the range of 174 - 2350MHz and uses Automatic Gain Control for power level stability.

Key Features

- Metal housing
- 6ch 174 - 2350MHz RF over one single-mode fiber
- Automatic Gain Control (AGC)
- High Linearity Photodiode
- Excellent RF Isolation
- Low noise RF Gain Control circuit



Optical Input

Optical Input Ports	One
Fiber	9µm/125µm single-mode fiber
Fiber Connector	SC/APC
Input optical wavelength	1470nm/1490nm/1510nm 1530nm/1550nm/1570nm
Average CWDM Optical Loss	<2.8dB@ CWDM wavelength
Optical Input Power	-12dBm - +3dBm (All CWDM wavelengths)
RF Output Ports	Six F Type 75 Ohm
RF Output Bandwidth	174 - 2350MHz
SAT RF Output Level	>-76dBuV@-6dBm optical input >-70dBuV@-10dBm optical input >-65dBuV@-12dBm optical input
RF Flatness	±4.0 dB (174 - 2350MHz)
RF Return Loss	>10dB
RF Connector	F Type
RF Impedance	75 Ohm
IMD 2nd order	≥32dB (two input tones at -15 dBm)
IMD 3RD order	≥52dB (two input tones at -15 dBm)
LED Status	6 Green Color LEDs on the panel, representing 6 RF Ports and DC Power. LED "ON" when there is signal on the corresponding RF port

General

Power Supply	12V 1A power adapter
Power Consumption	<9W
Dimensions (W x H x D)	5.55" x 6.10" x 0.98" (141 x 155 x 25mm)
Operating Temperature	14 - 122 °F (-10 - +50 °C)
Storage Temperature	-40 - 185 °F (-40 - +85 °C)
Humidity	10 - 90% non-condensing
Weight	2.2 lbs (1 Kg)
Warranty	2-year Limited Warranty