

FT-SAT-TX-6

Wideband Satellite L-Band RF Fiber Optic Transmitter

The FiberTronix L-Band fiber optic Transmitter carries RF Satellite signals over single-mode fiber from the dish LNB to the satellite receiver. L-band satellite signals typically travel only a few hundred feet, in coaxial cable, before significant signal deterioration occurs. By transporting the L-Band satellite signal over a single-mode optical fiber this distance will extend up to 12.5 miles.



Key Features

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

Optics

Optical Output Port	One
Fiber	9µm/125µm single-mode fiber
Fiber Connector	SC/APC
Output Optical Wavelength	1470nm/1490nm/1510nm 1530nm/1550nm/1570nm
Laser	CWDM DFB laser with one stage isolator
Average CWDM Optical Loss	<2.8dB@ CWDM wavelength
Laser Output Power	>10dBm (All CWDM wavelengths)
LED Status	12 Green Color LED on the panel, representing each laser has power and 6 RF inputs. LED "ON" when there is the corresponding signal.

RF Input

RF Input Ports	6
RF Bandwidth at each port	174 - 2350MHz
Minimum RF Input Power	-50dBm
Maximum RF Input Power	-30dBm
RF Connector	F-Type
RF Return Loss	>10dB
RF Impedance	75 Ohm
RF AGC	Presat at 25 RF carriers in each CWDM channel
RF Flatness	±4.0 dB (174 - 2350MHz)

General

Power Supply	19V 3A DC Power Adapter
Power Consumption	<12W
Dimensions (W x H x D)	7.48" x 6.10" x 1.57" (190 x 155 x 40mm)
Operating Temperature	14 - 113 °F (-10 - +45 °C)
Storage Temperature	-40 - 185 °F (-40 - +85 °C)
Humidity	10 - 90% non-condensing
Weight	4.4 lbs (2 Kg)
Warranty	2-year Limited Warranty