

FT-FTX1550-10-SCAPC

CATV Optical Transmitter

This CATV Optical transmitter is designed for high performance, reliability, and long-term stability in demanding broadband applications. Featuring advanced optical and RF components, intelligent thermal management, and versatile control options, it ensures consistent signal quality and dependable operation.



Key Features

- **High-Power DFB Laser** – Imported DFB laser with maximum output power up to 16 mW for superior transmission performance.
- **Optimized RF & Optical Stability** – Built-in RF driving amplifier and control circuits maintain excellent C/N ratio; advanced optical power output and thermoelectric cooling circuits ensure stable, long-term operation.
- **Intelligent Cooling** – Automatic fan operation when internal temperature reaches 89.6 - 95°F (32–35°C) for efficient heat management.
- **AGC/MGC Control** – Supports Automatic Gain Control and Manual Gain Control to maintain stable output across varying RF input levels.
- **Smart Monitoring & Alerts** – Internal microprocessor software enables laser monitoring, numeric display, fault alarms, and online management; red flashing alarm when laser parameters are outside the set range.
- **Remote Management** – RS-232 standard connector allows for remote monitoring and control.
- **Flexible Installation & Power** – Fits a standard 19" rack and operates on 90 – 265V AC or - 48V DC power supplies.

FT-FTX1550-10-SCAPC	-2	-4	-6	-8	-10	-12	-14	-16
Optical Power	≥02 mW	≥04 mW	≥06 mW	≥08 mW	≥10 mW	≥12 mW	≥14 mW	≥16 mW
Optical Power	3 dBm	6 dBm	7.8 dBm	9 dBm	10 dBm	10.8 dBm	11.5 dBm	12 dBm
Optical Wavelength	1528 - 1570 nm							
Fiber Connector	FC/APC, SC/APC (Optional)							
Working Bandwidth	47 - 862 MHz							
Channels	59							
CNR	≥51							
CTB	≤ -65 dBc							
CSO	≤ -60 dBc							
RF Input Level	80±5 dBμV							
Flatness	≤0.75							
Power Consumption	≤30 W							
Power Voltage	220VAC (90-265), -48VDC (Optional)							
Working Temperature	-4 -149 °F (-20 - 65°C)							
Dimensions	19 x 1.73 x 14.57" (483 x 44 x 370 mm)							
Weight	17.6 lbs (8 kg)							
Warranty	1 Year Limited Warranty							