# Blonder Tongue
CATV

# FIBT-10-1550
## Trailblazer Series
### Fiber Optic 1550 nm Transmitter

# SOLUTIONS FOR ALL YOUR APPLICATIONS

The FIBT-10-1550 Fiber Optic broadband CATV transmitter provides a robust system for transferring both analog and digital CATV channels over single-mode optical fiber. The transmitter has an expanded RF bandwidth to 1000 MHz. Typical applications are transferring analog channels from 50 to 550 MHz plus CATV QAM channels between 550 and 1000 MHz in short-haul fiber distribution applications using 1550 nm optical wavelengths.

The FIBT transmitter utilizes a direct modulated high-power, low noise 1550 nm distributed feedback (DFB) laser diode. The FIBT-10-1550 transmitter is EIA 19" rack mountable and has a height of 1.75 (1RU).

**CATV
48-1000 MHz**



**Optical Output
1550 nm / +10 dBm**

## Features

- 48-1000 MHz (1 GHz) Bandwidth
- 1550 nm, single mode with SC/APC connector
- 10 dB optical output power
- LED's for quick assessment of RF Input, laser and cooler status
- Status/Alarm jack on rear panel for monitoring 5 key parameters

**Bandwidth Increase 1 GHz !**

## Ordering Information

| Model | Stock # | Description |
|-------|---------|-------------|
| FIBT-10-1550 | 7465B | Fiber Transmitter 1550 nm, +10 dBm, 1000 MHz |

**Rev:** 070814

# Specifications

## RF

| | |
|---|---|
| **Bandwidth:** | 48 to 1000 MHz |
| **Input Return Loss:** | =/>16 dB @ 75 Ω |
| **RF Input Level** (110 Ch. Analog Load)**:** | + 18 dBmV/Ch |
| **Carrier Noise Ratio:** (-1 dBm RX input, 77 Ch. Load + QAM 550-1,000 MHz @ -6dB Ref. Analog) | ≥ 50 dB |
| **Composite Triple Beat** (CTB)**:** | ≥ 60 dB |
| **Composite Second Order** (CSO)**:** | ≥ 53 dB |

## Optical

| | |
|---|---|
| **Operating Wavelength:** | 1550 nm |
| **Optical Output Power:** | +10 dBm |
| **Side Mode Suppression Ratio** (SMSR)**:** | 30 dB |
| **Back Reflection:** | -50 min. dB |

## General

| | |
|---|---|
| **Dimensions (W x H x D):** | 19" x 1.75" x 8.25" (483mm x 45mm x 210mm) |
| **Weight:** | 6 lbs. (2.72 kg) |
| **Operating Temperature Range:** | 0 to +45 °C |

## Power

| | |
|---|---|
| **Power Supply Voltage:** | 110/220 VAC, 50/60 Hz |
| **Power Consumption:** | 25 W |

## Connectors

| | |
|---|---|
| **RF Input:** | "F" Female |
| **Optical Output:** | SC/APC |

## Indicators

| | |
|---|---|
| **Power:** | LED, Green |
| **Cooler Status:** | LED, Bi-colored Green/Red |
| **RF Input Level:** | LED, Tri-colored Green/Yellow/Red |
| **Laser Status:** | LED, Bi-colored Green/Red |