



# Blonder Tongue

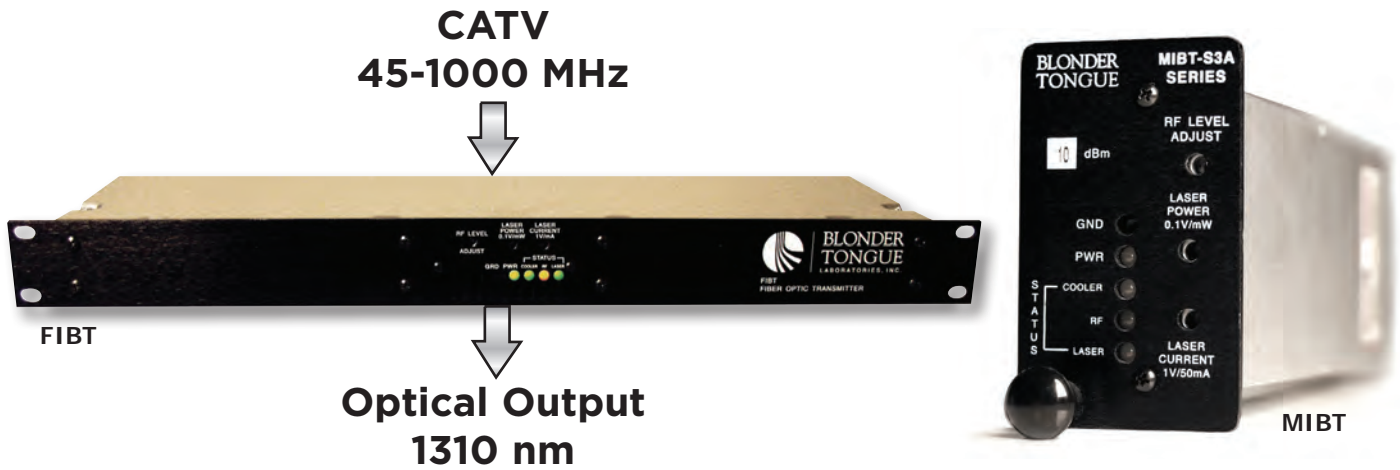
# FIBT & MIBT Trailblazer Series

## Fiber Optic 1310 nm Transmitters

### SOLUTIONS FOR ALL YOUR APPLICATIONS

The FIBT/MIBT Series of Fiber Optic broadband CATV transmitters provides a robust system for transferring both analog and digital CATV channels over single-mode optical fiber. The transmitters have 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.

The FIBT transmitters are EIA 19" wide rack mountable with a height of 1.75". The MIBT transmitters utilize the MIRC-12V rack chassis and MIPS-12C power supply for mounting. Each MIBT-S3A occupies 2 slots within the MIRC chassis, therefore up to six (6) MIBT-S3A transmitters can be installed in 2 RU's. Both the FIBT and the MIBT's use efficient switching power supplies that accept utility power from 90 to 260 VAC and 50 to 60 Hz.



### Features

- 45-1000 MHz (1 GHz) Bandwidth
- 1310 nm, Single mode with FC/APC connector standard (SC/APC optional)
- Available in 5 optical output powers (6, 8, 10, 12 & 14 dBm) to handle a variety of applications
- LED's for quick assessment of RF Input, laser and cooler status
- Status/Alarm jack on rear panel for monitoring 5 key parameters



### Ordering Information

Model	Stock #	Description
FIBT-S3A-106	7403C 6	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +6 dBm Output, FC/APC Connector
FIBT-S3A-108	7403C 8	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +8 dBm Output, FC/APC Connector
FIBT-S3A-110	7404C 10	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +10 dBm Output, FC/APC Connector
FIBT-S3A-112	7404C 12	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +12 dBm Output, FC/APC Connector
FIBT-S3A-114	7404C 14	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +14 dBm Output, FC/APC Connector
MIBT-S3A-106	7410B 6	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +6 dBm Output, FC/APC Connector
MIBT-S3A-108	7410B 8	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +8 dBm Output, FC/APC Connector
MIBT-S3A-110	7410B 10	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +10 dBm Output, FC/APC Connector
MIBT-S3A-112	7410B 12	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +12 dBm Output, FC/APC Connector
MIBT-S3A-114	7410B 14	Fiber Optic Transmitter, Single-mode, DFB laser 110 Ch., 1000 MHz, 1310 nm, +14 dBm Output, FC/APC Connector

# Specifications

## Optical / RF

<b>Operating Wavelength:</b>	1310 nm
<b>Required Fiber Bandwidth:</b>	1,000 Min. MHz
<b>Input Return Loss:</b>	=/>16 dB @ 75 Ω
<b>Back Reflection:</b>	-50 min. dB
<b>Optical Output Power:</b>	+6, +8, +10, +12, +14 dBm
<b>Bandwidth:</b>	45 to 1,000 MHz
<b>RF Input Level:</b> (110 Analog Ch. load)	+ 18 dBmV/Ch
<b>CNR:</b> (-1 dBm Input, 77 Ch. Load + QAM 550-1,000 MHz @ -6dB Ref. Analog)	≥ 52 dB
<b>Composite Triple Beat (CTB):</b>	≥ 63 dB
<b>Composite Second Order (CSO):</b>	≥ -60 dB
<b>Side Mode Suppression Ratio (SMSR):</b>	30 dB

## General

<b>Dimensions (W x H x D)</b>	<b>FIBT:</b> 19" x 1.75" x 8.25" (483mm x 45mm x 210mm) <b>MIBT:</b> 2.19" x 3.5" x 8.25" (56mm x 89mm x 210mm)
<b>Weight</b>	<b>FIBT:</b> 6 lbs. (2.72 kg) <b>MIBT:</b> 1.21 lbs. (0.54 kg)
<b>Operating Temperature Range:</b>	0 to +45 °C

## Power

<b>Power Supply Voltage:</b>	110/220 VAC
<b>Power Supply Frequency:</b>	50/60 Hz
<b>Power Dissipation:</b>	25 W
<b>MIBT:</b>	Requires MIPS-12C Power Supply

## Connectors

<b>RF Input:</b>	"F" Female
<b>Optical Output:</b>	FC/APC (Also available with SC/APC. User suffix "S" after stock number ie: 7403CS 6)

## Indicators

<b>Power:</b>	LED, Green
<b>Cooler Status:</b>	LED, Bi-colored Green/Red
<b>RF Input Level:</b>	LED, Tri-colored Green/Yellow/Red
<b>Laser Status:</b>	LED, Bi-colored Green/Red