



MIBT/MIBR  
Sample Rack Mount



SIBT/SIBR  
Sample Stand Alone

### ○ Features & Benefits

- Low Cost
- Up To 10 Channels on One Multimode Fiber
- 5-250 MHz RF bandwidth
- 1310nm Operation To 3 KM
- SIBT/SIBR Designed for Stand Alone Applications
- MIBT/MIBR fits in our MIRC-12 and FIRC-3 Rack Chassis' for 19 Inch Rack Mounting

The MIBT/SIBT-S3A-210 series fiber optic transmitters along with the MIBR/SIBR-S4A-210 receivers provide a high-quality system for transporting up to ten TV channels over a single mode optical fiber. With an RF bandwidth from 5 MHz to 250 MHz, these units can transmit sub-band, low-band, FM, mid-band or high-band channels. Optimum performance is achieved when the channel (frequency) plan is within a single octave of bandwidth. The system can transmit signals from a VCR, camcorder or cable television feed over a distance of 10 km on one single mode fiber. Tri-color LED's are used to indicate optimum RF input level on the transmitters and optical input status on the receivers. Green indicates an acceptable level, red is too high and amber is too low. These products are recommended for use with single mode fibers only and require a minimum fiber bandwidth of 500 MHz.

### ○ Specifications

#### LINK @ 25 °C, Single-mode Fiber

Bandwidth: 5-250 MHz  
 Operating Wavelength: 1310 nm  
 CATV Channels: 10  
 CNR (+1 dBm Input, 10 Ch. Load): 52 dB  
 CSO (10 Ch. Load): -68 dB  
 CTB (10 Ch. Load): -70 dB  
 Input/Output Impedance: 75 Ohms  
 Operating Temperature Range: +10 to +40 °C  
 Weight: 6 oz, 170 g (per unit)

#### Physical Dimensions

SIBR (WxHxL): 5.75 x 2.95 x 1.12 in  
 146 x 74 x 28 mm  
 MIBR (WxHxL): 1.15 x 3.5 x 7.5 in  
 29 x 89 x 191 mm

#### Transmitters

RF Input Level (10 Channel): +7.0 dBmV  
 Optical Output: +3 DBM  
 Power Supply Voltage: 12 VDC  
 Power Dissipation: 3.6 W

#### Receiver

Optical Input Range: -9 to +4 dBm  
 Power Supply Voltage: 12 VDC  
 Power Dissipation: 2.0 W

#### Connectors

Optical Output: FC/APC  
 RF Input: "F"  
 Power Supply  
 SIBT/SIBR: ACCS-PS-90 (BT Stock No. 7417)  
 MIBT/MIBR: MIPS-12C (BT Stock No. 7722C) Power Supply and MIRC-12V (BT Stock No. 7715) Chassis

### ○ Ordering Information

Model	Stock No.	Description
MIBT-S3A-210	7423	Fiber Optic Transmitter, 10 Channel 5-250 MHz, Single-mode, 1310 nm, FC/APC Connector, 3 dBm Output
MIBR-S4A-210	7433	Fiber Optic Receiver, 10 Channel 5-250 MHz, Single-mode, 1310 nm, FC/APC Connector
SIBT-S3A-210	7423 S	Fiber Optic Transmitter, 10 Channel 5-250 MHz, Single-mode, 1310 nm, FC/APC Connector, 3 dBm Output
SIBR-S4A-210	7433 S	Fiber Optic Receiver, 10 Channel 5-250 MHz, Single-mode, 1310 nm, FC/APC Connector

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