



MIBR  
Sample Rack Mount



FIBR  
Sample Stand Alone

### Features & Benefits

- 45-860 MHz Bandwidth
- LED For Optical Input Status
- Models Available in Both Stand Alone and Modular Configurations For Installation In MIRC-12 And FIRC-3 Chassis'
- Built-in Adjustable Optical Attenuator on FIBR-S4A-860-PA

The FIBR/MIBR-S4A-860 fiber optic receivers provide a effective means of receiving broadband CATV signals over single mode optical fibers. The receivers have a frequency bandwidth of 45-860 MHz and accommodate a variety of different modulation formats such as AM/VSB, 8VSB, QAM, QPSK, etc. The receiver is packaged in a compact, rugged, metal, enclosure for either stand alone or MIRC rack chassis designs. The receiver is "universal" in that it can operate at both the 1310 nm and 1550 nm optical windows. In addition to the FIBT Series of transmitters, the FIBR has been designed to operate with the transmitters of many leading manufacturers. The receiver contains an LED status indicator that allow the link's status to be quickly assessed locally.

### Specifications

#### LINK @ 25 °C, Single-mode Fiber

Bandwidth: 40-860 MHz  
 Operating Wavelength: 1310/1550 nm  
 CATV Channels:  
     110 VSB/AM, 80-30 VSB/AM QAM  
 Power Supply Voltage: 12 VDC  
 Power Dissipation: 1.75 W  
 Optical Input Range: -4.5 to +4.5 dBm  
 Input/Output Impedance: 75 Ohms  
 CNR (0 dBm Input, 40 Ch. Load): 53 dB  
 CNR (0 dBm Input, 60 Ch. Load): 52 dB  
 CNR (0 dBm Input, 80 Ch. Load): 51.5 dB  
 CNR (0 dBm Input, 110 Ch. Load): 50.5 dB  
 CSO (110 Ch. Load): -67 dB  
 CTB (110 Ch. Load): -70 dB  
 Operating Temperature Range: -20 to +70 °C  
 Weight: 10 oz., 283.5 g

#### Physical Dimensions

FIBR-S4A-860-P/PA:  
 5.75 x 2.95 x 1.12 in  
 146.1 x 74.9 x 28.5 mm  
 MIBR-S4A-860:  
 1.15 x 3.5 x 7.5 in  
 29 x 89 x 191 mm

#### Connectors

Optical Input: FC/APC  
 RF Output: "F"

#### Power Supply

FIBR-S4A-860-P/PA:  
 ACCS-PS-170 (BT Stock No. 7419)  
 MIBR-S4A-860:  
 MIPS-12C (BT Stock No. 7722C) and  
 MIRC-12V (BT Stock No. 7715)

### Ordering Information

Model	Stock No.	Description
MIBR-S4A-860	7434	Fiber Optic Receiver, 110 Channel, 40-860 MHz, Single-mode 1310/1550 nm, FC/APC Conn., Mounts in 7715, Powered by 7722C
FIBR-S4A-860-PA	7412 PA	Fiber Optic Receiver, Single-mode, With Optical Input Atten. 40-860 MHz, 1310/1550 nm, FC/APC Connector
FIBR-S4A-860-P	7412 P	Fiber Optic Receiver, Single-mode 40-860 MHz, 1310/1550 nm, FC/APC Connector