



PFO-100T/R

Fiber Optics Transmitter & Receiver



SDI Pathological Compliant

The PFO-100T&R is a miniature high quality fiber optical transmission system. The module is SDI pathological test compliant with built in EQ, cable driver and re-clocker. This unit operates with single mode fiber optic cable, or multi-mode fiber cable can be requested for shorter transmission distances. The PFO-100T&R supports SMPTE ST 259 (SD-SDI 143/270/360 Mb/s), SMPTE ST 292-1 (HD-SDI 1.5Gb/s), SMPTE ST 424 (3G-SDI 3Gb/s).

Portable Lightweight Units

The combined PFO-100T, transmitter, and PFO-100R, receiver, are a matched pair for specific wavelengths, either the standard 1310 nm or any requested wavelength between 1270-1610 nm. At only 4 o.z., and capable of transmitting up to 24 miles (40 km), the portable and powerful system is ideal in a wide variety of applications, including cross-town fiber links, cross-campus production, remote camera links and previously installed fiber venues.

Easy Set Up Operations

The PFO-100T& R modules include LED indicators to display Power ON and SDI signal presence from BNC (transmitter) or from fiber optic (receiver), providing critical system diagnostic information at a glance without the need for additional test equipment. The 3G/HD/SD-SDI or ASI fiber optical transmission system uses its own power supply or any 5 volt DC supply, with a standard latching power jack DC input. Due to the advanced digital fiber optic transmission technology, there is no need to make any adjustments with a simple set up and ease of operation.

Exceptional Technical Support

The PFO-100 Transmitter and Receiver is backed by the Link Electronics standard 10-year warranty and 24/7 free customer support. It meets the innovative, high performance, flexibility, and reliability requirements of all Link Electronics products.

Features

- Supports Embedded Audio
- Portable, lightweight units
- SDI Pathological Compliance

- Sports Tele-Prod, Golf, Skiing
- Cross-Town Fiber Links

- Cross-Campus Production
- Remote Camera Links
- Pre-installed Fiber Venues



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Video

Transmission Method: Digital
 Input Level: 800 mV (peak to peak)
 Input Impedance: 75 ohms
 Equalization: 350m@270 Mbps, 140m@1.485 Gbps, 50m@ 2.97 Gbps
 Output Impedance: 75 ohms
 Bit-Error Rate: (@ -20 dBm) 10^{-11}
 Jitter (pathological data pattern): < 120 ps
 Rise/Fall Times: < 120 ps

* Equalization of Belden 1694A cable: 120m@2.97Gb/s, 200m@1.485Gb/s, and 350m@270Mb/s.

Transmission

Operating Wavelength: 1310nm normal, (Optional 18 Ch. 1270~1610nm CWDM)
 Video Connector In/Out: BNC
 Optical Connector: LC (Standard)
 Transmitter Output: -6~0 dBm (0~+3 dB m Optional)
 Receiver Sensitivity: -20 dBm
 Link Margin/Distance: 13 dB/5km@3G for Single Mode
 Fiber Type: Single mode
 Transmission Distance: 40 kilometers

Electrical

Input Voltage: 5 VDC
 Power Connector: DC Latching Jack
 Power Consumption, Each End: 600 mW

Environmental

Operating Temperature: 25° C to +55°C
 Relative Humidity: 0 to 95%, non-condensing

Mechanical

Length 3.2 inches
 Width 0.65 inches
 Height 2.0 inches
 Weight: 4 oz. (150 g)
 Indicators: Power, signal, link, optical power



The manufacture reserves the right to change specifications without notice

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