

## Single Fiber Bi-directional Transceiver 1 Digital 24 Bit Audio and 1 Contact Closure

### FEATURES:

- 24Bit Digital Audio
- Diagnostics: Audio, Contact, Power & Optical Presence
- Automatic Resettable Fuses on Power Lines

### SPECIFICATIONS:

#### Audio:

I/O Level @ 600 Ohms .....0 dBm  
 Bandwidth ..... 20 Hz to 10 KHz  
 THD @ 1 KHz ..... 1%  
 SNR ..... .80 dB  
 Connector ..... Terminal Block

#### Contact Closure:

Input ..... Switch Closure to Ground  
 Output ..... Dry Contact  
 Response Time ..... 2 mS  
 Max Voltage ..... 100 VDC or Peak AC  
 Max Current ..... 0.5 A  
 Connector ..... Terminal Block

#### Optical:

Wavelength ..... 1310/1550 nm  
 Loss Budget 62/125µ) ..... 15 dB  
 Connector ..... ST

#### Environmental

Operating Temp ..... -40°C to +75°C  
 Storage Temp ..... -40°C to +85°C  
 Humidity ..... 0% to 95% (non-condensing)  
 MTBF ..... >100,000 hours

#### Power Supply:

Module – 12 VDC (AFI Part # PS-12D)  
 Rack Card – AFI SR 20/2

#### Size:

Module ..... 8 1/8" x 4 1/8" x 1 1/8"  
 Rack Card 1 rack slot ..... 6 1/2" x 1" x 5"

#### Product Ordering Information:

MT-9P89      Module Transmitter  
 MR-9P89      Module Receiver  
 RT-9P89      Rack Card Transmitter  
 RR-9P89      Rack Card Receiver



The American Fibertek 9P89 Series transmits high-quality, state of the art, 24bit digital audio and 1 contact closure channel on one multimode optical fiber. This link is capable of providing an optical loss budget of 15dB utilizing 1310nm/1550nm wavelength lasers.

Designed to be completely transparent, this system requires no field adjustments at installation or additional maintenance thereafter. Diagnostic indicators provide a quick visual indication of system status.

Equipment may be ordered as stand alone modules or rack cards that are mounted in the American Fibertek Card Cages: SR20/2 or SR-20H/2 (redundant power supply option).

