

# Single Fiber Bi-directional Transceivers Audio and Contact Closure System Interface For AiPhone Intercom NEM



**FEATURES:**

- Bi-directional Audio and Contact Closure Transceivers
- Diagnostics: Power and Optical Presence
- Voice Operated (VOX) Transmission
- FM Modulated Audio

**SPECIFICATIONS:**

**Audio:**

Bandwidth .....300 Hz to 10 KHz  
 THD @ 1 KHz.....2%  
 SNR.....50 dB  
 Connector .....5 Pin Screw Terminal

**Contact Closure:**

Input .....Switch Closure to Ground  
 Output .....Dry Contact  
 Response Time .....2 ms  
 Connector .....5 Pin Screw Terminal

**Optical:**

Wavelength .....850/1300 nm  
 Loss Budget (62.5/125µ) .....12 dB  
 Connector .....ST

**Temperature (Operating):**

-20°C to +70°C, non-condensing

**Power Supply:**

Module - 24 VAC Center Tap (AFI Part #: PS-24-CT-T)  
 Rack Card - See AFI Part #: SR-20/2

**Size:**

Module - 5¼" x 6¼" x 1½"  
 Rack Card requires one rack slot - 6½" x 1" x 5"

**ORDERING INFORMATION:**

MT = Module Transmitter - Station  
 MR = Module Receiver - Master  
 RT = Rack Card Transmitter - Station  
 RR = Rack Card Receiver - Master

**Example: MT-89A-N to RR-89A-N**



The American Fibertek 89A-N Series transmits one channel of high-quality low distortion bi-directional audio/contact closure on one multimode optical fiber. Designed to be completely transparent, the system field microphone and audio levels can be adjusted to balance and optimize signal levels. 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: SR-20/2 or SR-20R/1.

