

# 3800 SERIES SINGLEMODE



## Single Fiber Bi-directional Transceivers One-Way Video & Two-Way Audio



### FEATURES:

- Video with Two-Way Audio Utilizing One Singlemode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- PFM Video Transmission
- 12 VAC Standard
- Full Color Transmission
- FM Modulated Audio Signal

### PRODUCT ENHANCEMENTS:

- Additional bi-directional features available for audio, data or contact closure - choice of one.

### SPECIFICATIONS:

#### Video:

I/O Level.....	1 Vpp
I/O Impedance.....	75 Ohms
Bandwidth.....	8 MHz
Differential Gain.....	3%
Differential Phase.....	2°
SNR.....	63 dB
Connector.....	BNC

#### Audio:

I/O Level.....	0 dBm
I/O Impedance.....	600 Ohms
Bandwidth.....	20 Hz to 10 KHz
THD @ 1 KHz.....	1%
SNR.....	55 dB
Connector.....	5 pin screw terminal

#### Optical:

Wavelength.....	1300/1550 nm
Loss Budget (9/125µ).....	21 dB
Dynamic Range.....	21 dB
Connector.....	FC/PC

#### Temperature (Operating):

-40°C to +75°C, non-condensing

#### Power Supply:

Module - 12 VAC (AFI Part #: PS-12-VAC)  
Rack Card - (See AFI Part #: SR-20/2)

#### Size:

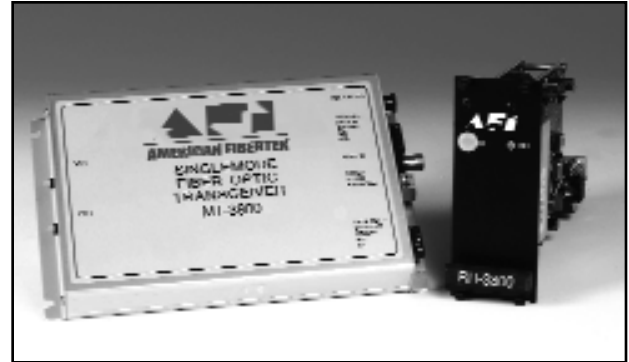
Module - 8" x 6½" x 1½"  
Rack Card requires two rack slots - 6½" x 2" x 5"

### ORDERING INFORMATION:

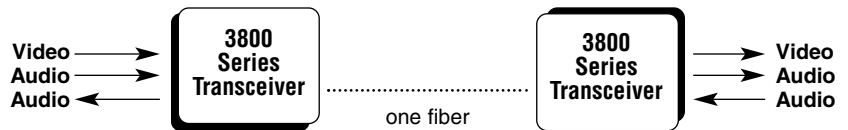
MT = Module Transmitter - Video Source  
MR = Module Receiver - Control Site  
RT = Rack Card Transmitter - Video Source  
RR = Rack Card Receiver - Control Site

Example: MT-3800 to RR-3800

The American Fibertek 3800 Series transmits high-quality, simultaneous video and bi-directional audio on one singlemode optical fiber. An additional bi-directional audio, data, or contact closure option



may be added for enhanced applications. These systems require 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: SR-20/2 or SR-20R/1.



### PRODUCT ENHANCEMENTS:

- 3801 Series -** One-Way Video
  - 1 - channel of bi-directional audio
  - Designed for 0 dB to 15dB optical Loss Budget
- 3820 Series -** One-Way Video
  - 1 - channel of bi-directional audio
  - 1 - channel of return AD or Bosch Code
  - see product series 3280B
- 3830 Series -** One-Way Video
  - 1 - channel of bi-directional audio
  - 1 - channel of bi-directional RS-232
  - see product series 3380
- 3840 Series -** One-Way Video
  - 1 - channel of bi-directional audio
  - 1 - channel of bi-directional RS-422
  - see product series 3480
- 3870 Series -** One-Way Video
  - 1 - channel of bi-directional audio
  - 1 - channel of bi-directional TTL
  - see product series 3780
- 3880 Series -** One-Way Video
  - 2 - channel of bi-directional audio
- 3890 Series -** Video One-Way
  - 1 - channel of bi-directional audio
  - 1 - channel of bi-directional contact closure rated at 100V Max (DC or peak AC) @ 0.5A with a response time of 2 ms

- For multimode product equivalent to the 3800 series please see the 1800 series product.