

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



FEATURES:

- Two-Way Video and 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
- FM Modulated Audio Signal
- Full Color Transmission

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:

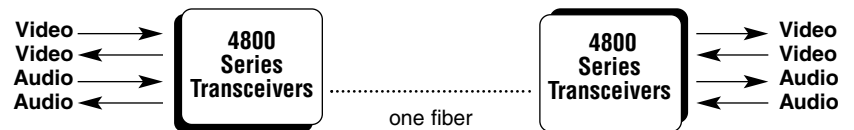
MT = Module Transmitter - Video Source
MR = Module Receiver - Control Site
RT = Rack Card Transmitter - Video Source
RR = Rack Card Receiver - Control Site

Example: MT-4800 to RR-4800

The American Fibertek 4800 Series transmits high-quality, simultaneous bi-directional video and 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:

- 4830 Series** - Two-Way Video _____
 - 1 - channel of bi-directional Audio
 - 1 - channel of bi-directional RS-232**see product series 4380**
- 4840 Series** - Two-Way Video _____
 - 1 - channel of bi-directional Audio
 - 1 - channel of bi-directional RS-422**see product series 4480**
- 4870 Series** - Two-Way Video _____
 - 1 - channel of bi-directional Audio
 - 1 - channel of bi-directional TTL**see product series 4780**
- 4880 Series** - Two-Way Video _____
 - 2 - channel of bi-directional Audio
- 4890 Series** - Two-Way Video _____
 - 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 4800 series please see the 2800 series product.