

## Single Fiber Bi-directional Transceivers One-Way Video & Two-Way RS422



### FEATURES:

- Video and Two-Way RS422 Utilizing One Multimode Optical Fiber
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostics: Video, Power and Optical Presence
- 24 VAC Standard or 12 VDC Option
- 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.....	.4%
Differential Phase.....	4°
SNR.....	.63 dB
Connector.....	BNC

#### Data:

Data Rate.....	Up to 19.2 Kbps
Data Connectors.....	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 (AFI Part #: PS-24)  
12 VDC available upon request, consult factory  
Rack Card - (See AFI Part #: SR-20/2)

#### Size:

Module - 6¾" x 5¾" x 1¾"  
Rack Card requires one rack slot - 6½" x 1" x 5"

### ORDERING INFORMATION:

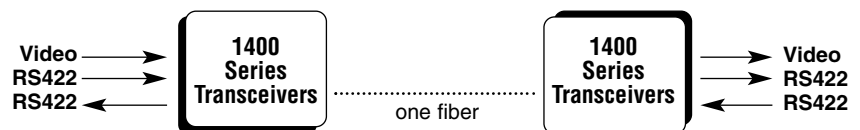
MT = Module Transmitter - Video Source  
MR = Module Receiver - Control Site  
RT = Rack Card Transmitter - Video Source  
RR = Rack Card Receiver - Control Site

**Example: MT-1400 to RR-1400**

The American Fibertek 1400 Series transmits high-quality, simultaneous video and bi-directional RS422 on one multimode 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:

- 1400-EL Series** - Video One-Way
  - 1 - channel of bi-directional RS422
  - Systems capable of 19 dB optical loss budget
- 1420 Series** - Video One-Way
  - 1 - channel of bi-directional RS422
  - 1 - channel of bi-directional return AD or Bosch Code
  - see product series 1240B**
- 1430 Series** - Video One-Way
  - 1 - channel of bi-directional RS422
  - 1 - channel of bi-directional RS232 up to 19.2 Kbps
  - see product series 1340**
- 1440 Series** - Video One-Way
  - 2 - channels of bi-direction RS422
- 1470 Series** - Video One-Way
  - 1 - channel of bi-directional RS422
  - 1 - channel of bi-directional TTL up to 19.2 Kbps
- 1480 Series** - Video One-Way
  - 1 - channel of bi-directional RS422
  - 1 - channel of bi-directional audio
  - Bandwidth of 20 Hz to 10 KHz and THD @ 1 KHz of 1%.
  - SNR 55dB, I/O Impedance 600 Ohms balanced.
- 1490 Series** - Video One-Way
  - 1 - channel of bi-directional RS422
  - 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 singlemode product equivalent to the 1400 series please see the 3400 series product.