

How To Use A Spec Sheet

SERIES DESCRIPTION



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

**1400
SERIES
MULTIMODE**



PRODUCT SERIES

FEATURES AND ENHANCEMENTS

FEATURES:

- Video and Two-Way RS422 Utilizing One Multimode Optical Fiber.
- Compatible with NTSC; RS-170A & RS-343A and PAL
- Diagnostic: Video, Power and Optical Presence
- 24 VAC Standard or 12 VDC Option
- Optical AGC
- Full Color Transmission

PRODUCT ENHANCEMENTS:

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

SPECIFICATIONS:

Video:
 I/O Level1 Vpp
 I/O Impedance75 Ohms
 Bandwidth8 MHz
 Differential Gain4%
 Differential Phase4°
 SNR63 dB
 ConnectorBNC

Data:
 Data RateUp to 19.2 Kbps
 Data Connectors5-pin screw terminal

Optical:
 Wavelength850/1300 nm
 Loss Budget (62.5/125µ)12 dB
 ConnectorST

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-20/1)

Size:
 Module - 6 1/4" x 5 1/4" x 1 1/4"
 Rack Card requires one rack slot - 6 1/2" 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

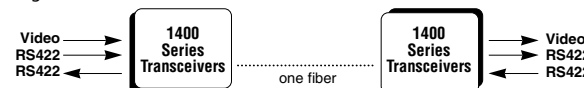
Example: MT-1400 to RR-1400

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-20/1 or SR-20R/1.



VIEW OF PRODUCT

TECHNICAL DATA



SYSTEM CONFIGURATION

PRODUCT ENHANCEMENTS:

- 1400-EL Series** - Video One-Way _____ V D
 1 - channel of bi-directional RS422
 Systems capable of 19 dB optical loss budget
- 1420 Series** - Video One-Way _____ V D D
 1 - channel of bi-directional RS422
 1 - channel of bi-directional return AD or Philips Code
see product series 1240B
- 1430 Series** - Video One-Way _____ V D D
 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 _____ V D D
 2 - channels of bi-direction RS422
- 1450 Series** - Video One-Way _____ V D D
 1 - channel of bi-directional RS422
 1 - channel of bi-directional 20mA current loop up to 19.2 Kbps
- 1470 Series** - Video One-Way _____ V D D
 1 - channel of bi-directional RS422
 1 - channel of bi-directional TTL up to 19.2 Kbps
- 1480 Series** - Video One-Way _____ V D A
 1 - channel of bi-directional RS422
 1 - channel of bi-directional audio
 Bandwidth of 20 Hz to 20 KHz and THD @ 1 KHz of 1%.
 SNR 55dB, I/O Impedance 600 Ohms balanced.
- 1490 Series** - Video One-Way _____ V D CC
 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.