



M1485 SERIES MULTIMODE

VIDEO AND MULTI-PROTOCOL BI-DIRECTIONAL DATA TRANSCEIVER Video, RS485, RS422, & Manchester

FEATURES:

- ◆ Diagnostics: Power, Video, Data and Optical Presence
- ◆ Switch Selectable
RS485 (2 Wire or 4 Wire)
RS422, Manchester
- ◆ Switch Selectable Termination and Fail Safe Bias
- ◆ Modules or Rack Cards
- ◆ Single or Dual Fiber Alternative

SPECIFICATIONS:

Video:

I/O Level 1Vp-p
 I/O Impedance 75 Ω
 Bandwidth6 MHz
 Differential Gain5%
 Differential Phase.....3°
 SNR.....55 dB
 Connector BNC

Data:

Data Rate
 RS485,RS422.....up to 100 Kb/s
 Manchesterup to 50 Kb/s
 Data Connector.....5 Pin Screw Terminal

Optical:

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

Temperature (Operating)

-40°C to +75°C, non-condensing

Power Supply:

Module Transmitter - 12 VDC: 10 VA
 (AFI Part #: PS-12)
 Module Receiver - 12 VDC: 10 VA
 (AFI Part#: PS-12)

Size:

Rack Card Requires one rack slot
 Module: 4¼" x 4¼" x 1⅛"

Ordering information:

MTM=Module Transmitter – Field Unit
 MRM=Module Receiver- Control Site
 RTM=Rack Card Transmitter – Field Unit
 RRM=Rack Card Receiver –Control Site

EXAMPLES:

Single fiber module video Tx to rack Rx:

MTM-1485 to RRM-1485

Two-fiber rack video Tx to rack Rx:

RTM-1485-2F8 to RRM-1485-2F8

5/05



The American Fibertek M1485 Series is a low cost, low profile video and bi-directional data transceiver system. The M1485 supports RS485 (2 or 4 wire), RS422, and Manchester data requirements

The system utilizes one or two multimode optical fibers. Designed to be completely transparent, this system requires 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, SR-20/2 or SR-20R/1.

