



**M1485-R3
SERIES
MULTIMODE**

**VIDEO AND MULTI-PROTOCOL BI-DIRECTIONAL DATA
TRANSCEIVER : RS485, RS422, & Manchester**
(Rackcard Installable into the IFS R3 Subrack)

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
- ◆ Single or Dual Fiber Alternative

SPECIFICATIONS:

Video:

I/O Level.....1Vp-p
I/O Impedance.....75 Ω
Bandwidth.....6 MHz
Differential Gain.....5%
Differential Phase.....3°
SNR.....55 dB
Connector.....BNC

Data:

Data Rate
RS485,RS422.....up to 100 Kb/s
Manchesterup to 50 Kb/s
Data Connector5 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 1⅞"

Ordering information:

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

EXAMPLE:

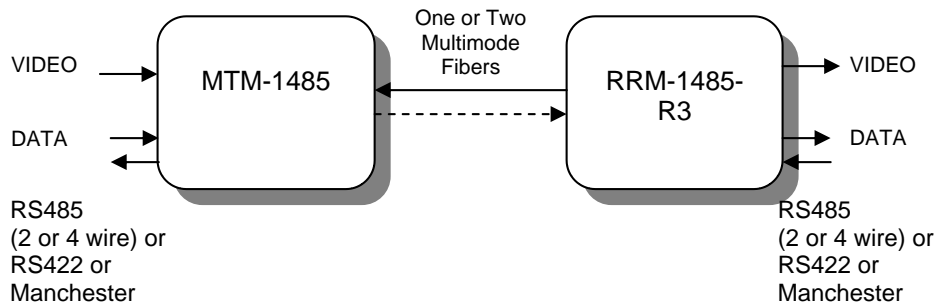
Single fiber module video Tx to rack Rx:
MTM-1485 to RRM-1485-R3



The American Fibertek M1485-(R3) 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 rackcard receiver is mechanically and power supply compatible with the IFS R3 subrack and power supply. This provides one an option to add an AFI product to an existing IFS-R3 subrack. However, an AFI module transmitter must be used with the AFI RRM-1485-R3 receiver.

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.



12/6/11 JPK