



**SD / HD-SDI (DUAL-RATE) VIDEO SYSTEM
WITH RETURN RS422 / RS485 DATA**

Features:

- ◆ Transmission of:
Multi-Rate SDI / HD-SDI
- ◆ Diagnostics:
SDI Presence, DC Power, OLI
- ◆ Real-Time, Uncompressed Video
Transmission
- ◆ Supports Embedded Audio and Metadata
- ◆ RS422 / RS485 Data

Specifications:

Video:

Input/Output Impedance.....75 ohm
 Input/Output Level800 mVpp
 Format.....SD-SDI, HD-SDI
 Data Rate.....1.485Gbs max
 Resolutions.....720p and 1080p
 Standards.....SMPTE 259M, 292M
 Max Resolution.....
 720P 50/60,1080i 50/60,1080P 25/30
 Distance (on Belden 1694A).....100 m
 SDI Connector.....BNC

Data:

Return Data Only.....1 channel
 Data Interface.....RS422 / RS485(4-wire)
 Data Rate.....0 to 115 kbs

Optical:

Multimode:MM

Wavelength.....1310 nm
 Loss Budget (50/125µ).....5 dB
 Loss Budget (62.5/125µ).....9 dB
 Transmission Distance1km
 - limited by fiber
 Connector.....ST

Singlemode:SM

Wavelength.....1310 nm
 Loss Budget (9/125µ).....12 dB
 Transmission Distance.....20 km
 Connector.....ST

Environmental:

Operating Temperature.....-40°C to +75°C
 Storage Temperature-40°C to +85°C
 Rel Humidity (non-condensing).....0 to 95%
 MTBF.....> 100,000 hours

Power Supply:

Module – 12VDC @ 150mA
 Power Connector.....2 pin terminal block

Size:

Module (WxHxL)1.5" x 1.0" x 4.0"

Product Ordering Information:

MT-91-1.5G-485 Module Transmitter MM
 MR-91-1.5G-485 Module Receiver MM
 MT-91-1.5G-485-SL Module Transmitter SM
 MR-91-1.5G-485-SL Module Receiver SM

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The American Fibertek Series 91-1.5G-485 Series transmits one channel of non-compressed high definition HD-SDI (1.485Gbs) or SD-SDI (270Mbs) signal along with a return RS422 / RS485 data channel on one singlemode or multimode optical fiber.

The Series 91-1.5G-485 is capable of transmitting up to 1km on multimode fiber and up to 20km on singlemode fiber while maintaining excellent video quality. Diagnostic LED indicators provide status on the SDI signal, optical power, and DC power to unit.

Designed to be completely transparent to all SDI compatible camera and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter.

