

**SD / HD-SDI (DUAL-RATE)
SERIAL DIGITAL VIDEO INTERFACE**
Features:

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

Specifications:
Video:

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

Optical:
Multimode:MM

Wavelength.....1310 nm
 Loss Budget (50/125μ).....5 dB
 Loss Budget (62.5/125μ).....8 dB
 Transmission Distance2 km
 - limited by fiber

Connector ST

Singlemode:SM

Wavelength.....1310 nm
 Loss Budget (9/125μ).....10 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 3.75"

Product Ordering Information:

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

04/01/13 JPK



The American Fibertek Series 91-1.5G Series transmits one channel of non-compressed high definition HD-SDI or SD-SDI signals on one singlemode or multimode optical fiber. The Series 91-1.5G is capable of transmitting up to 2 km on 62um 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 HD-SDI or SD-SDI compatible camera, DVR, and monitor manufacturers, this system requires no field adjustments at installation or additional maintenance thereafter.

