

**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 Level .....800 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 Distance .....2 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

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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.

