

Transmission of serial digital (SDI) video in accordance with SMPTE 259M, 294M and 305M digital video standards

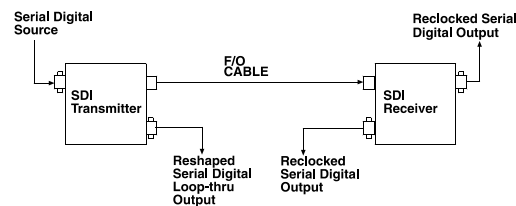
The Fiberlink Serial Digital Video Transmission System utilizes high-speed pulse modulation techniques to transmit wideband, digitally encoded video signals in accordance with SMPTE 259M, 294M and 305M digital video standards at data rates of 143, 177, 270 and 360 Mb/s.

The system does no actual interpretation of the digital video pulse stream; it simply transmits and receives it as is, including any imbedded audio and/or control signals. The transmitter is designed to operate with input coaxial cable lengths of up to 300 meters and provides an active loop-through output for monitoring purposes. The receiver contains a re-timing circuit which produces an output with extremely low jitter and will drive up to 300 meters of coax.

Integral LEDs are provided on both the transmitter and receiver to continuously monitor the presence of the digital pulse stream as well as to indicate the proper operation of the units. In addition, built-in regulators allow both units to operate from low voltage unregulated DC power sources, thereby providing unparalleled versatility in a fiber optic transmission system.

MODELS AVAILABLE:

- Multimode, 1300 nanometers
- Single mode, 1300 nanometers



3120/3121
(SDI Video)

STANDARD FEATURES INCLUDE:

- Equalized loop-through transmitter
- Two re-clocked outputs on receiver
- Supports distances up to 60 km, single mode
- No degradation of signal over entire transmission distance
- Adjustment-free

WARRANTY

All Math Fiber Optics transmission products are backed by a three-year warranty on parts and labor plus a 30-day satisfaction guarantee.

EQUIPMENT INCLUDED:

- Transmitter and Receiver must be purchased separately
- User's manual

SPECIFICATIONS

SMPTE 259M Data Compatibility:	143, 177, 270, 360 Mb/s
Input/Output Impedance:	75 ohms
Input/Output Return Loss:	15 dB minimum
Input Coaxial Cable Equalization:	0 to 300 meters, Belden 8281
Normal Input/Output Voltage:	800 mv +/- 10% peak-to-peak

Output Rise/Fall Time:	Less than 1.0 ns
Output Drive Capability:	0-300 meters, Belden 8281
Residual Jitter:	300 ps typical
Fiber Optic Cable Compatibility:	50 micron, 62.5 micron, multimode, 8/10 micron single mode
Transmission Distance:	0 to 2 km, multimode (bandwidth limited by fiber) 0 to 60 km, single mode
Optical Loss Budget:	0 to 15 dB
Operating Wavelength:	1300 nanometers
Optical Connectors:	ST, multimode FCPC, single mode
Signal Connectors:	BNC
Operating Temperature:	-20 to +60 degrees C
Physical Size:	4 L x 3.5 W x 1.3 H in. (101.6 L x 88.9 W x 33 H mm)

ORDERING INFORMATION

Module	1300 nm
XMTR/Multimode	3120-3
RCVR/Multimode	3121-3
XMTR/Single Mode	3120-7
RCVR/Single Mode	3121-7

* Power supply must be purchased separately.