



Extend 3G-SDI Over One Single-Mode Fiber Optic Cable up to 1.25 miles



EXT-3GSDI-FOSM

3G-SDI extension using a single-mode fiber optic cable

The 3GSDI Fiber Optic Extender extends 3G-SDI over one single-mode ST-terminated fiber optic cable up to 1.25 miles (2 km). It supports SMPTE-424M (3G-SDI), SMPTE-292M (HD-SDI), and SMPTE-259M (SDI). The 3G-SDI BNC connector and the ST-terminated fiber optic signal transmission provide excellent immunity to electromagnetic interference compared to copper based extension modules.

The compact design makes the small modules ideal for fitting neatly behind equipment for a clean installation, and a great way to easily extend any SDI signal.

How It Works

The Sender module plugs into the BNC connector on the SDI source. The Receiver module plugs into the BNC input of the SDI device up to 1.25 miles (2 km) away. Connect one single-mode ST-terminated fiber optic cable from the Sender to the Receiver module. Plug the power connectors from the two power supplies into the locking connectors on the Sender and Receiver modules.

Features*

- Supports SMPTE-424M (3G-SDI), SMPTE-292M (HD-SDI), and SMPTE-259M (SDI) specifications
- Extends 3G-SDI up to 1.25 miles (2 km) over one single-mode ST-terminated fiber optic cable
- Locking power connectors
- Robust metal die-cast enclosure for reliable operation in harsh environment
- Fiber optic transmission eliminates electromagnetic interference (EMI)
- Compact Sender and Receiver modules provide a clean, easy installation
- FCC and CE compliant for EMI/RFI emission

Specifications*

- Input Impedance: 75 Ohm
- Data Rate: up to 3 Gbps
- Signal Level: 800mVp-p +/- 50mV
- Optical Fiber Type: ST (single-mode)
- Number of Fibers: 1
- SDI Connector: BNC Male
- Range: Up to 1.25 miles (2 km)
- Propagation Delay (Sender): 1.5 ns
- Propagation Delay (Receiver): 40 ns
- Power Supply: (2) 5V DC
- Power Budget: 12dB
- Operating Temperature: -20 to + 70C
- Relative Humidity: 0 to 95%
- Wavelength (Sender unit): 1290 nm (min), 1310 nm (typical), 1330 nm (max)
- Wavelength (Receiver unit): 1100 nm (min), 1310 nm (typical), 1650 nm (max)
- Dimensions (W x H x D): 0.77" x 0.77" x 1.97"
(19.55mm x 19.55mm x 50.03 mm)
- Shipping Weight: 1.3 lbs (0.58 kg)

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