

Gefen PRO

3G-SDI up to 18 miles plus Output Reclocking



Overview

The GefenPRO 3GSDI Fiber Optic Extender is a miniature serial digital video data transport system extending video over fiber optic cable supporting 1080p for 3G-SDI. It converts a one-channel SMPTE-424M 3G-SDI, SMPTE-292M HD, or SMPTE-259M serial digital video signal over extended distances up to 18 miles (30 kilometers) using single-mode or up to 1640 feet (500 meters) multi-mode fiber optic cable, terminated in ST.

How It Works

The Sender unit receives the SDI input signal from a compatible SD/HD/3G SDI source and converts the SMPTE-424M / 292M / 259M SDI signals to optical data. The Receiver unit converts the data to an SD/HD/3G SDI signal, which in turn connects to BNC connection point, or a display. Both Sender and Receiver units are powered by an external 5V locking power supply.

Features:

- Extends SD/HD/3G-SDI up to 18 miles (30 kilometers) using single-mode
- Transports Multi-rate SDI Digital Video over one fiber cable
- Supports SMPTE-424M (3G-SDI), SMPTE-292M (HD-SDI), or SMPTE-259M (SDI) specifications
- Automatic Input Equalization
- Automatic Output Clock Recovery
- Latch-Locking Power supply
- BNC and ST-type locking connectors
- Robust metal die-casting enclosure for use in harsh environments

Specifications:

- Input Impedance: 75 Ohm
- Data Rate: up to 3 Gbps
- Signal Level: 800mV (p-p) +/- 50mV
- Optical Fiber Connector: ST terminated
- Output Connector: BNC Female
- Input Connector: BNC Female
- Distance: Up to 18 miles (30 kilometers)
- Propagation Delay (Sender): 1.5 ns
- Propagation Delay (Receiver): 40 ns
- Dimensions: 0.77"W x 0.77"H x 1.97"D
- Power Supply: 5V DC (2.5W) (Locking)
- Power Budget: 16dB
- Operating Temperature: -20 to +80C
- Wavelength (Sender Unit): 1290 nm (min), 1310 nm (typ), 1330 nm (max)
- Wavelength (Receiver Unit): 1100 nm (min), 1310 nm (typ), 1650 nm (max)
- Shipping Weight: 1.3 lbs