Specifications

Environment	SDI single link: SD, HD & 3G.
Devices	Monitors or any equipment supporting SDI single link.
Standard supported	SMPTE 259M (270Mb/s), SMPTE 292M & SMPTE 424M SMPTE 297-2006
Bit rates	270Mb/s, 1.485Gb/s & 2.97 Gb/s (automatic selection).
Indicators	Power & Signal present LED indicators
Connectors *On each unit*	One BNC 75 ohm female. One LC Optical fiber connector. One power connector, 2mm.
Maximum Distance	Coax: 330ft (100 m) on RG59 Singlemode fiber: 3G: 6.6miles (10 km, HD: 13.2miles (21 km) SD: 19miles (30km)
Optic link *(Not included)*	One singlemode fiber with an LC connector.
Power Supply *(Included)*	Two 100-240V/12VDC 6W power supplies with interchangeable blades for NA, Europe and UK.
Power Consumption	Transmitter: 1.25 Watts Receiver: 1.25 Watts
Temperature	Operating: 0° to 50°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Module Enclosure	Black, metal Size: 3" x 3" x 1" (7.6 x 7.6 x 2.5 cm) excluding connectors.
Dimensions	Shipping Package: 8.4" x 6.9" x 2.9" (21.5 cm x 17.5cm x 7.5cm)
Weight	2.2lbs (1kg)
Compliance	Regulatory: FCC, CE, RoHS Flammability: 94V0
Warranty	2 years
Order Information	500710 3G-SDI SM Fiber Extender Kit

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3G-SDI SM Fiber Extender Kit

500710

Quick Installation Guide

Overview

The 3G-SDI SM Fiber Extender Kit allows 3G-SDI to be transmitted up to 6.6miles (10km) via a one singlemode fiber cable in a point-to-point configuration at all specified bit rates.

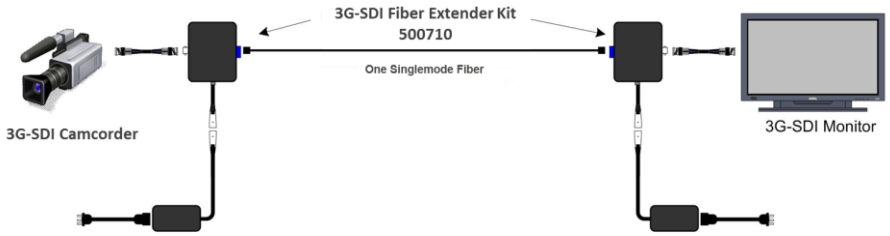
The 3G-SDI SM Fiber Extender Kit supports transmission of up to 2.97/3.0 Gbps digital video within television facilities and between professional video equipment.

Applications

Video production, broadcasting, camcorder, studio-to-studio, post-production, live events, medical imaging displays, mobile video, 3G routing, 3G CCTV, medical imaging.

Installation

1. Identify the connectors on the Transmitter (LC Fiber out) and Receiver (LC FIBER in) as indicated on the product labels.
2. Verify that the distance between the Transmitter and Receiver is within MuxLab specifications (see Specifications table).
3. To install the Transmitter:
   - 3a. Connect the Transmitter to the SDI video source with a BNC 75-ohm coaxial cable. Respect the cable distance shown in the specifications table.
   - 3b. Remove the white protective plug from the LC connector. Connect one LC connectorized singlemode optical fiber cable. Keep the protective white plug and place it back on the LC connector if the fiber is later removed or not present.
   - 3c. DO NOT LOOK into the fiber or module when the power is on.
   - 3d. Plug a power supply or the special power cable. The special power cable has a locking mechanism, push the plug and rotate the lock it until it is secure.
4. To install the Receiver:
   - 4a. Connect the Receiver to the SDI display equipment with a BNC 75 ohm compliant cable. Respect the cable distance shown in the specifications table.
   - 4b. Remove the protective white plug. Connect the remaining end side of the fiber to the Receiver. Keep the protective white plug and put it back if the fiber is removed or not present.
   - 4c. Plug a power supply or the special power cable. The special power cable has a locking mechanism, push the plug and rotate the lock it until it is secure.
5. Power the equipment and verify the image quality. Verify if both power LEDs are ON. With a valid source check that both the Transmitter Signal LED and the Receiver Signal LED are ON.



Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions with respect to the installation of the 3G-SDI SM Extender Kit:

LEDS	Status	Possible cause	Action
Power LED (both TX & RX units)	OFF	No AC power or defective power supply.	Try replacing the two power supplies.
Signal LED (TX unit)	OFF	No source signal or incompatible signal.	Check source signal. Check coax cable. It must be 75 ohm and the length must be less than 330ft (100m).
Signal LED (RX unit)	OFF	No source signal or incompatible signal. Fiber not connected or broken. Remote unit off or defective.	Check source signal. Check fiber cable. Check distance specs for fiber cable (see specifications table).
Power & Signal LED (both TX & RX units)	ON but no signal on monitor	Display monitor not working. Coax cable not connected or broken.	Try another monitor. Check coax cable. It must be 75 ohm and the length must be less than 330ft (100m). Some equipment may not support distances up to 330ft (100m). Try a shorter distance to confirm.

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).