MuxLab

Techical Spec sheet



12G-SDI Fiber Extender Kit, 10km

500713-V2

12G SDI | 4K60 ULTRA HD | Fiber Optic

Overview

The 12G-SDI Fiber Extender Kit (Model: 500713-V2) allows SDI signals up to 12G-SDI to be transmitted up to 10km (6.2mi) via a one single mode fiber cable in a point-to-point configuration at all specified bit rates.

The 12G-SDI Fiber Extender Kit supports transmission of up to 12.0Gbps of digital video within television broadcasting facilities and between professional video equipment.

Applications

- Video production & Broadcasting
- Studio-to-studio & Post production
- Outside broadcasting vehicle
- Mobile video & Live Events
- Medical imaging display

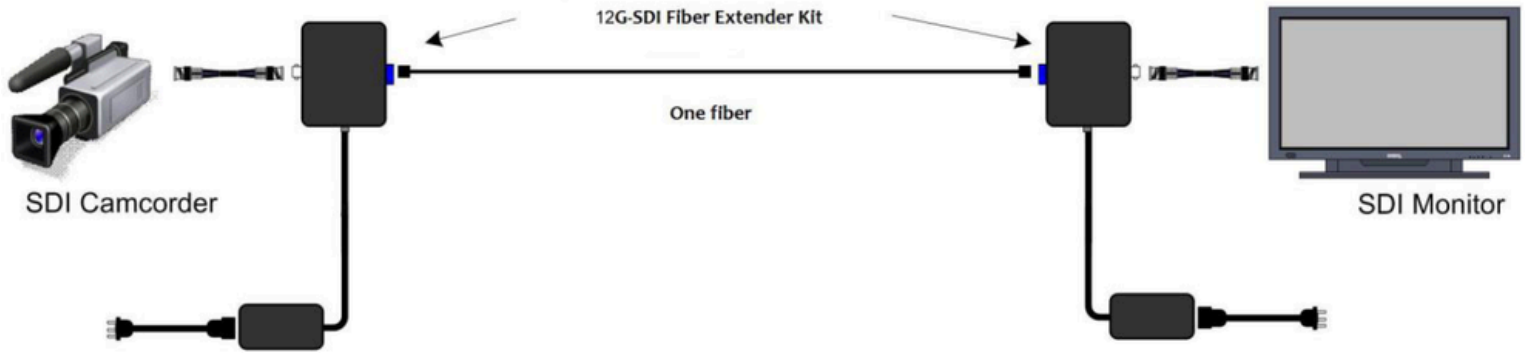
Key Features

- Supports 12G/6G/3G/HD-SDI signals
- Supports up to 4K/60 video
- Extend transmission up to 10km (6.2mi) over single mode fiber
- LED diagnostics

Specification

Technical	
Environment	SDI single coaxial link: 12G, 6G, 3G, HD & SD.
Application	Head-end installations, conference room, home installation
Standard	SMPTE ST2082, SMPTE ST2081, SMPTE 424M, SMPTE 292M, SMPTE 259M
Video Resolution	Up to 4K60
Distance	Up to 10km (6.2mi) using single mode 9/125 µm fiber
Wavelenght	1310nm
Data Rate	12Gbit/s, 6Gbit/s, 2.97Gbit/s, 1.48Gbit/s & 270Mbit/s
Signal Amplitude	800mV
Signal Jitter	>0.2UI
Fiber Type	Single mode 9/125 µm fiber
Hardware Interfaces	
SDI Port	2 x BNC 75 ohm female
Fiber Port	1 x Simplex LC fiber [female], supporting single mode fiber
Power Port	1 x locking barrel jack connector
Status LEDs	11 x Power and status LEDs
General	
Power Supply	Two (2) 100-240VAC/5VDC 2A PSU with interchangeable blades US, UK and Euro
Power Consumption	Transmitter: 2.5W, Receiver: 2.0W
Temperature	Operating: 0° to 55°C Storage: -40° to 80°C Humidity: Up to 90% non-condensing
Dimensions	115 mm x 65 mm x 25 mm (excluding the connectors)
Weight	250 g
Compliance	Regulatory: FCC, CE, RoHS
Warranty	2 Years
Order Information	500713-V2 12G-SDI Fiber Extender Kit, 10km (UPC: 627699017135)

Application Example



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