

## 3G/HD-SDI Fiber Optic Extender

Model No: FLS10R2

### Description

Beijing Fiber Linker Communication Co., Ltd has been in video audio transmission system solution for almost 10 years. Our SDI fiber optic extender has been widely used in our domestic and overseas for broadcast TV transmission system. We could do SDI extender over fiber by CWDM, DWDM and TDM uncompressed solution with data, external audio Ethernet, tally and other functions. The fiber connectors could be ST, FC, SC, LC, SMPTE, LEMO type. We welcome any OEM request for SDI over fiber series.

### Features

1. Miniature Rattler 1-ch 3G-SDI/ASI over fiber cable
2. Compatible with HD-SDI, SD-SDI, DVB-ASI
3. Bandwidth range from 19.4Mb/s to 2.97Gb/s
4. SMPTE 424M (2.97Gb/s) clock recovery
5. support all popular standards for digital video transport such as SMPTE 424M, SMPTE 292M, and SMPTE 259M, SMPTE 297M working at 3G-SDI, HD-SDI, SD-SDI, ASI respectively
6. +5V power supply; USB or 5.5mm DC jack with pigtail
7. Support automatic cable equalization based on the data rate detected
8. LED 1310nm FP laser, optional CWDM/DWDM wavelength for your own mux and demux system



### Order Info

Model Number		Specification
3G-SDI	FLS10R2	1-ch 3G-SDI, SFP fiber port, 20km, +5V, BNC female connector MINI type
HD-SDI	FLH10R2	1-ch HD-SDI, SFP fiber port, 20km, +5V, BNC female connector MINI type

### Application

Remote OB Van/Truck Video Feeds, Broadcast Studio Camera Feeds, TV station/video conference, broadcast live transmission, Medical/Surgical Room Broadcast, Building to Building video conference, video wall controller, commend center.

## Specification

SDI Input	Number	1
	TV signal standard	SMPTE 424M, 292M, 259M, 297M, 305M, 310M, M2S, DVB-ASI, DVB-SSI and other Telecom/Datacom rate (19.4Mb/s – 2.97Gb/s)
	Reflection loss	>15DB
	Equilibrium	0-100m @ 2.97Gb/s
	Connector	75Ω BNC male
SDI Output	Number	1
	Signal level	800mV nominal
	Rise/fall time	200Ps nominal
	Overshoot	<10% amplitude
	Reflection loss	> 15dB
	Jitter	< 0.3UI
	Connector	75Ω BNC male
Fiber Optic	Channel	1
	Type/Distance	Single-mode/20KM standard, optional max 80KM
	Wavelength	1310nm standard, optional CWDM 16 wavelength
	Connector	LC/PC (ST/PC optional)
	Output Power	About -6dB to +1dB
	Receiver sensitivity	-8dB for 20KM, optional max is -24dB
Power and Environmental	Operating temperature	-40°C ~ +45°C
	Power Supply	+5V
	Power Consumption	3W
	EMI/RFI	FCC Part 15 Class A, EU EMC standard
	MTBF	>100000 hours
Other	Size	25x25x80 mm(not include BNC and SFP length)
	Weight	1Kg (TX+RX)

## Diagram

