

12G-SDI Fiber Extender/4K Solution

Model No: FLG22LS

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, MADI, SYNC 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. 2-ch bidirectional 4K@60Hz 12G-SDI
2. Support loop out for each SDI channel
3. Compatible with 6G-SDI, 3G-SDI, HD-SDI, SD-SDI
4. Bandwidth range from 270Mb/s to 11.88Gb/s
5. SMPTE ST 2082-1 (11.88Gb/s) clock recovery
6. SMPTE 292M, 259M, 296M, 297M, 372M, 424M, 425M, ST-2081, ST-2082
7. Support automatic cable equalization based on the data rate detected
8. LED status indicators monitor the critical parameters
9. SMTPE 3K.93C FXW and EDW hybrid fiber connector
10. Support remote power from FXW to EDW fiber box
11. Support AC and DC power supply
12. Support OEM function



Order Info

Model Number	Specification
FLG22LS	2-ch bidirectional 12G-SDI with loop, SMPTE hybrid fiber connector, stand alone case, support remote power, AC and DC power supply
FLS22LS	2-ch bidirectional 3G-SDI with loop, SMPTE hybrid fiber connector, stand alone case, support remote power, AC and DC power supply

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	2 input on TX and 2 input on RX with loop out
	TV signal standard	SMPTE ST 2082, SMPTE ST 2081, SMPTE ST 424, SMPTE ST 425, SMPTE ST 292, SMPTE ST 259
	Reflection loss	>4DB @12G
	Equilibrium	>50M @ 12Gb/s
	Connector	75Ω BNC
SDI Output	Number	2 output on TX and 2 output on RX with loop out
	Signal level	800mV nominal
	Rise/fall time	<135ps @3G-SDI, <80ps @6G UHD-SDI <45ps @12G UHD-SDI
	Overshoot	<10% amplitude
	Reflection loss	> 15dB
	Jitter	< 0.5UI
	Connector	75Ω BNC
Fiber Optic	Channel	1
	Type/Distance	1KM over SMPTE Cable with power 10KM over Single-mode/pure fiber
	Wavelength	CWDM
	Connector	SMPTE HDTV Lemo connector
	Output Power	About -1 dB to -4dB
	Receiver sensitivity	-5 dB for 10KM, optional max is -20dB
Power and Environmental	Operating temperature	-40°C ~ +45°C
	Power Supply	110 to 240VAC, DC10-20V, remote power over smpte cable, auto switch from internal detect
	Power Consumption	About 12W
	EMI/RFI	FCC Part 15 Class A, EU EMC standard
	MTBF	>100000 hours
Other	Size	190X160X55mm
	Weight	3Kg (TX+RX)

Diagram

