3G-SDI Fiber Optic Extender

Model No: FLS22P

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. 2-ch Bidirectional 3G-SDI/ASI video with embedded audio +1-ch Gigabit Ethernet over one fiber
2. Compatible with HD-SDI, SD-SDI, DVB-ASI,
3. Support pathological SDI signal test.
4. Bandwidth range from 19.4Mb/s to 2.97Gb/s
5. SMPTE 424M (2.97Gb/s) clock recovery
6. 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
7. Built-in CWDM system, SFP modules for each path
8. Support automatic cable equalization based on the data rate detected,LED status indicators
9. We could make it as your requested specifications

Order Info

Model Number	Specification
FLS10P	1-Ch unidirectional 3G-SDI/ASI, 1-ch Gigabit Ethernet, SM, single fiber, FC/ST/LC, stand alone, 20KM
FLS20P	2-Ch unidirectional 3G-SDI/ASI, 1-ch Gigabit Ethernet, SM, single fiber, FC/ST/LC, stand alone, 20KM
FLS11P	1-Ch bidirectional 3G-SDI/ASI, 1-ch Gigabit Ethernet, SM, single fiber, FC/ST/LC, stand alone, 20KM
FLS22P	2-Ch bidirectional 3G-SDI/ASI, 1-ch Gigabit Ethernet, SM, single fiber, FC/ST/LC, stand alone, 20KM

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.
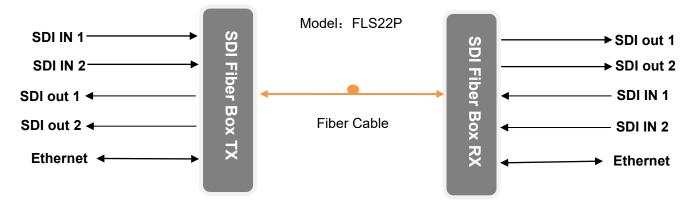
Specification

SDI Input	Number	Max 2 input in TX and RX
	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
SDI Output	Number	Max 2 output in TX and RX
	Signal level	800mV nominal
	Rise/fall time	200Ps nominal
	Overshoot	<10% amplitude
	Reflection loss	> 15dB
	Jitter	< 0.2UI
	Connector	75Ω BNC
Ethernet	One 1000Mbps, RJ45 port	
Fiber Optic	Channel	1
	Type/Distance	Single-mode/20KM standard, optional max 80KM
	Wavelength	CWDM wavelength
	Connector	LC/PC（FC/SC/ST/PC optional）
	Output Power	About +5dB to -5dB
	Receiver sensitivity	-8dB for 20KM, optional max is -24dB
Power and Environmental	Operating temperature	-40℃～＋45℃
	Power Supply	12V DC
	Power Consumption	6W
	EMI/RFI	FCC Part 15 Class A, EU EMC standard
	MTBF	>100000 hours
Other	housing	Stand alone
	Weight	3Kg (TX+RX）
	Size	230X180X30mm

Diagram

SDI IN 1 → SDI Fiber Box TX

SDI IN 2 →

SDI out 1 ←

SDI out 2 ←

Ethernet ←

Model：FLS22P

Fiber Cable

SDI Fiber Box RX → SDI out 1

→ SDI out 2

← SDI IN 1

← SDI IN 2

Ethernet