

12G-SDI Fiber Extender/4K PTZ Solution

Model No: FLG11BP

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. 1-ch bidirectional 4K@60Hz 12G-SDI with loop out
2. SDI BNC connector could transmit MADI signal
3. 1-ch bidirectional SYNC BB and Tri-level signal
4. 1-ch duplex high rate RS422 or RS485
5. 1-ch duplex full Gigabit Ethernet
6. Compatible with 6G-SDI, 3G-SDI, HD-SDI, SD-SDI
7. Bandwidth range from 270Mb/s to 11.88Gb/s
8. SMPTE ST 2082-1 (11.88Gb/s) clock recovery
9. SMPTE 292M, 259M, 296M, 297M, 372M, 424M, 425M, ST-2081, ST-2082
10. Support automatic cable equalization based on the data rate detected
11. LED status indicators monitor the critical parameters
12. Single core fiber cable, FC connector, 10KM.
13. Support broadcast 12G pathological signal transmission
14. 5-15VDC power supply



Order Info

Model Number	Specification
FLG11BP	1-ch bidirectional 12G-SDI with loop, 1-ch bidirectional SYNC BB and Tri-level, 1-ch duplex RS422/485, 1-ch Gigabit Ethernet, single fiber, FC port, 10KM, stand alone case

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 input on TX and 1 input on RX (compatible with MADI)
	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 (compatible with MADI)
	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
SNYC BB and Tri-level	1-ch input on TX and RX, 1-ch output on TX and RX	
	Video format	PAL/SECAM/NTSC
	Input level	0.5~2Vpp
	Output level	1Vpp
	Low-Pass Filters	SD Channels: - 3 dB at 9.5 MHz, Fixed Full-HD Channels: - 3 dB at 72 MHz
Connector	75Ω BNC	
RS422/485	Number	1 channel RS422 and RS485(support sony700 protocol)
	Format	Standard rate is 2Mbps, optional up to 12Mbps. Support NRZ, RZI and Manchester, Full/half duplex
	Connector	RJ45
Ethernet	Number	1 channel full duplex
	Bandwidth	10/100/1000M adaptive Ethernet
	Connector	RJ45
Fiber Optic	Channel	1
	Type/Distance	Single-mode/10KM standard
	Wavelength	CWDM inside
	Connector	FC/UPC
	Output Power	About +3 dB to -5dB
	Receiver sensitivity	-4dB for 10KM, 20KM optional
Power and Environmental	Operating temperature	-40°C ~ +45°C
	Power Supply	5V to 15V
	Power Consumption	About 6W
	EMI/RFI	FCC Part 15 Class A, EU EMC standard
	MTBF	>100000 hours
Other	Size	116x116x20mm
	Weight	3Kg (TX+RX)

Diagram

