

## 12G-SDI Fiber Extender/4K Solution

Model No: FLG84PN

### Description

This 12G-SDI Fiber Optic Extender extends 12 channels 12G-SDI 4K signal to a long place with Neutrik OpticalCON Duo connector. It could support remote power from on to the other box over hybrid opticalcon duo cable wire if you want. 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, MADl, SYNC, Time code 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. 8-ch forward 12G-SDI and 4-ch reverse 12G-SDI
2. Support 1-ch 10G Ethernet
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. Neutrik opticalCon Duo LC connector for fiber optic
10. Support one box to supply power to the other box
11. Support OEM configuration according to real needs
12. Support CWDM or DWDM solution



### Order Info

Model Number	Specification
FLG84PN	8-ch forward 12G-SDI, 4-ch reverse 12G-SDI, 1-ch 10G Ethernet, opticalCon Duo LC connector, 1.5U rack mount

### 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

<b>SDI Input</b>	Number	8 input on TX box, 4 input on RX box
	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
<b>SDI Output</b>	Number	8 output on RX box, 4 output on TX box
	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
<b>Ethernet</b>	RJ45 Connector	1-ch 10G bandwidth, compatible with 1000M/100M
<b>Fiber Optic</b>	Channel	2 core inside
	Type/Distance	10KM over Single-mode/pure fiber
	Wavelength	CWDM 14 wavelength
	Connector	Neutrik opticalCon Duo LC
	Output Power	About +3 dB to -5dB
	Receiver sensitivity	-6dB for 10KM
<b>Power and Environmental</b>	Operating temperature	-40°C ~ +45°C
	Power Supply	110 to 245VAC
	Power Consumption	About 12W
	EMI/RFI	FCC Part 15 Class A, EU EMC standard
	MTBF	>100000 hours
<b>Other</b>	Size	1.5U rack mount
	Weight	9Kg (TX+RX)

## Diagram

