# 12G-SDI Fiber Extender

**Model No:** FLG20GP

## Description

Beijing Fiber Linker Communication Co., Ltd has been in video audio transmission system solution over 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 4K@60Hz 12G-SDI
2. 1-ch reverse SYNC Genlock BB and Tri-level signal
3. Genlock has loop out
4. 1-ch duplex full Gigabit Ethernet
5. Compatible with 6G-SDI, 3G-SDI, HD-SDI, SD-SDI
6. Bandwidth range from 270Mb/s to 11.88Gb/s
7. SMPTE ST 2082-1 (11.88Gb/s) clock recovery
8. SMPTE 292M, 259M, 296M, 297M, 372M, 424M, 425M, ST-2081, ST-2082
9. Support automatic cable equalization based on the data rate detected
10. LED status indicators monitor the critical parameters
11. Single core fiber cable, LC/ST/FC connector, 10KM
12. CWDM uncompressed solution

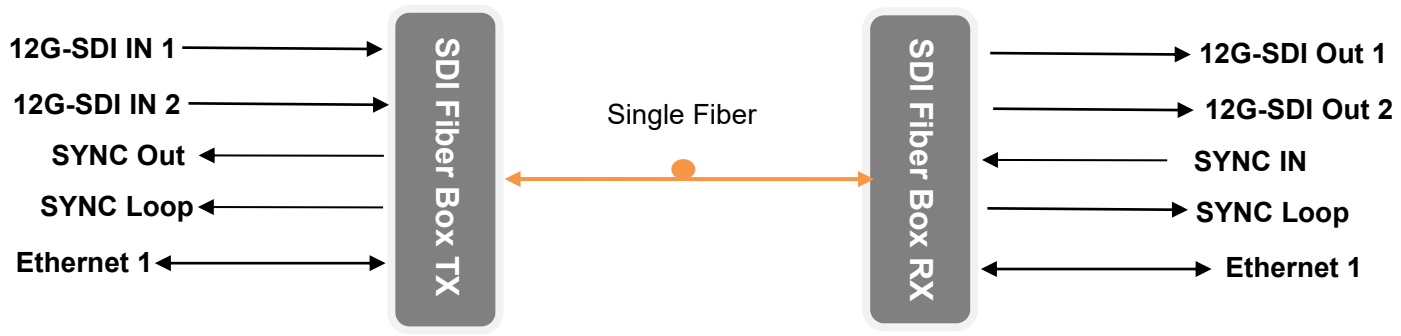
## Order Info

| Model Number | Specification |
|---|---|
| FLG20GP | 2-ch unidirectional 12G-SDI , 1-ch reverse SYNC BB and Tri-level, 1-ch Gigabit Ethernet, single fiber, FC/ST/LC 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 | 2 input on TX 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 |
| **SDI Output** | Number | 2 output on RX box |
| | Signal level | 800mV nominal |
| | Rise/fall time | <135ps @3G-SDI ,<80ps @6G UHD-SDI<br><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,<br>Fixed Full-HD Channels: – 3 dB at 72 MHz |
| | Connector | 75Ω BNC |
| **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 | LC/ST/FC |
| | Output Power | About +3 dB to -5dB |
| | Receiver sensitivity | -4dB for 10KM, 20KM optional |
| **Power and Environmental** | Operating temperature | -40℃～+45℃ |
| | Power Supply | 12V |
| | Power Consumption | About 10W |
| | EMI/RFI | FCC Part 15 Class A, EU EMC standard |
| | MTBF | >100000 hours |
| **Other** | Size | 18x16x30cm |
| | Weight | 3Kg (TX+RX） |

## Diagram