

3G-SDI Fiber Optic Extender

Model No: FLS160P

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. 16-ch 3G-SDI/ASI video with embedded audio and 1000M/100M Ethernet over one fiber
2. Compatible with HD-SDI, SD-SDI, DVB-ASI
3. Support broadcast SDI pathological signal
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
9. LED status indicators monitor the critical parameters
10. We could make it as your requested specifications



Order Info

| Model Number | Specification |
|--------------|---|
| FLS160P | 16-Ch unidirectional 3G-SDI/ASI with embedded audio, single mode, single fiber, FC or ST, 1-ch 1000M/100M Ethernet, 1U rack mount, 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 | 16 input on TX |
| | 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 | 16 output on RX |
| | Signal level | 800mV nominal |
| | Rise/fall time | 200Ps nominal |
| | Overshoot | <10% amplitude |
| | Reflection loss | > 15dB |
| | Jitter | < 0.2UI |
| | Connector | 75Ω BNC |
| Ethernet | 1-ch duplex 10/100/1000Mbps RJ45 | |
| Fiber Optic | Channel | 1 |
| | Type/Distance | Single-mode/20KM standard, optional max 80KM |
| | Wavelength | CWDM 18 wavelength |
| | Connector | FC/PC (ST/PC optional) or OEM SMPTE LEMO |
| | Output Power | About +5dB to +8dB |
| | Receiver sensitivity | -8dB for 20KM, optional max is -24dB |
| Power and Environmental | Operating temperature | -40°C ~ +45°C |
| | Power Supply | 90VAC to 245VAC |
| | Power Consumption | 12W |
| | EMI/RFI | FCC Part 15 Class A, EU EMC standard |
| | MTBF | >100000 hours |
| Other | Rack mount | 1.5U |
| | Weight | 8Kg (TX+RX) |

Diagram

