

Technical Datasheet

Mini 12G-SDI Video to Fiber Optical Converter

Overview

Mini 12G-SDI video to fiber optical converter supports 1-channel 12G-SDI Video/Data or Tally signal transmitted via fiber optical cable, and monitor the signal locally over a 12G-SDI loop output, 12G-SDI video over fiber converter includes one transmitter and one receiver for 4K 12G-SDI signal.

Features

1. 1 channel 12G-SDI Video/Data & Tally over optic fiber
2. Each SDI channel includes 1-channel audio embedded
3. SDI input/LC fiber output/SDI Loop
4. Automatic cable equalization to ensure signal integrity
5. Supports 12G / 6G / 3G / HD / SD
6. Compatible with DVB-ASI and AES10 (MADI)
7. Integrated reclock locks to SMPTE rates of 11.88Gbps, 5.94Gbps, 2.97Gbps, 1.485Gbps or divide-by-1.001 sub-rates and 270Mbps
8. Directly compatible with 12G/6G/3G-SDI camera systems
9. Long transmission capability at least 10 km
10. Type C 5V power input
11. Supports hot swapping and hot plugging
12. Full digital non-compression broadcast level transmission
13. Super optic dynamic range and free of adjustment prior to use
14. Fiber optic WDM/CWDM/DWDM technique
15. Support HDTV 4K*2K(3840*2160@60Hz), 1080P, 1080I, 720P.



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Application

UHDTV/4K/8K/HDTV/SDTV Video

Digital Video Processing and Editing

SMPTE-Compatible Serial Digital Interface

Animal Films Recording

Live Events Broadcast Over Fiber

High Performance(error-free) Surveillance Networks in Army or Security

Intelligent Traffic Monitoring System

Industrial Monitoring (Electricity, Chemistry, Steel, Oil, Railway & etc.) Military Monitoring (Warehouse, Border, Guards, etc.)

Stadium (For LIVE HD Video, Audio Transmission)

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Formats	SMPTE-2082-1/ SMPTE-2081-1 /SMPTE-424 /SMPTE-292 /SMPTE-259
Compatible	Compatible With DVB-ASI and AES10 (MADI)
Input	1 x 12G-SDI on BNC
Output	1 x LC optical fiber ; 1 x 12G-SDI loop-out on BNC
Supported Resolution	HDTV 4K*2K,1080P,1080I,720P
Resolution Range	3840*2160@60Hz
Input cable Specification	70m@12G SDI Belden 1694A
Output Cable Specification	70m@12G SDI Belden 1694A
Data Type	Backward RS485 or Tally (optional)
Optical Transmission Bandwidth	270MHz~12GHz
Power	Type C 5V
Power Consumption	2 W (Max.)
Dimensions (LxWxH)	70 x 55 x 25 (mm)
Storage Temperature	-20°C ~ +75°C
Operating Temperature	-40°C ~ +85°C

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Connection Diagram

