

Mini 12G-SDI to Fiber Converter with Tally signal or Backward RS485



Overview

20100357/8 Series Mini-type **12G-SDI** Fiber Converter supports 1-channel 12G Video (audio embedded) & Tally signal(or Backward RS485) transmitted via fiber optical cable, and monitor the signal locally over a 12G loop output. E-link 12G Video over Fiber Converters includes one transmitter and one receiver for HDTV 4K*2K(**3840*2160@60Hz**), 1080P, 1080I, 720P.

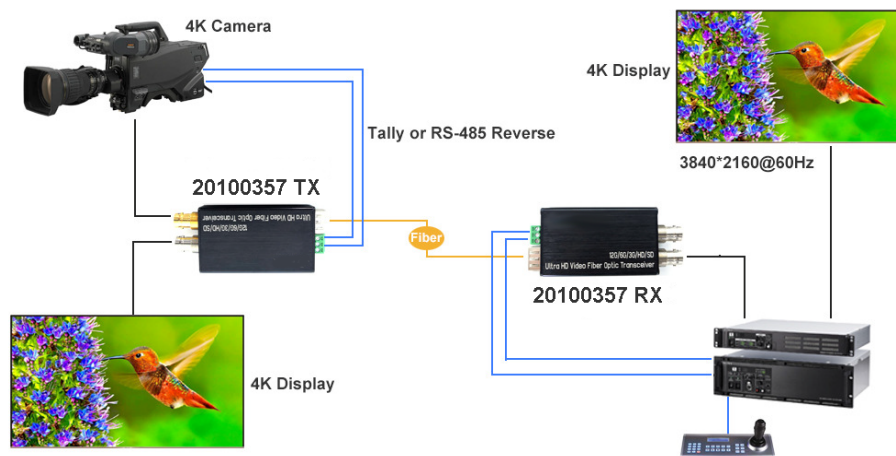
Features

- 1 channel 12G-SDI video & **Tally (or Backward RS485)** over optic fiber
- Each SDI channel includes 8-channel audio embedded
- SDI Input/LC Fiber Output/SDI Loop
- Automatic cable equalization to ensure signal integrity

- Supports **ST-2082-1(12G)**, **ST-2081-1(6G)**, ST-424(3G), ST-292(HD) and ST-259(SD)
- Compatible With DVB-ASI and AES10 (MADI)
- Integrated Reclocker Locks to SMPTE Rates of **11.88Gbps**, **5.94Gbps**, **2.97Gbps**, **1.485Gbps** or Divide-by-1.001 Subrates and 270 Mbps
- Directly compatible with **12G/6G/3G-SDI** camera systems
- Long transmission capability at least 10 km (6.2miles) , up to 80 km
- Terminal block power input for industrial application
- Supports hot swapping and hot plugging
- Full digital non-compression broadcast level transmission;
- super optic dynamic range and free of adjustment prior to use;
- fiber optic WDM/CWDM/DWDM technique;
- support HDTV **4K*2K(3840*2160@60Hz)**, 1080P, 1080I, 720P.
- industry level ultra-broad temperature range **(-40 °C~+85 °C)**,

Application

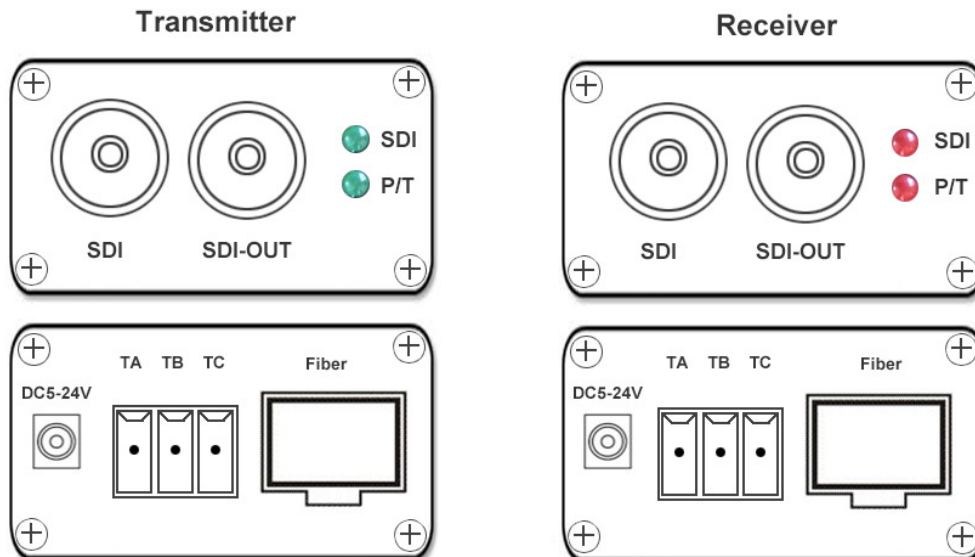
- UHDTV/4K/8K/HDTV/SDTV Video
- Digital Video Processing and Editing
- SMPTE-Compatible Serial Digital Interface
- Animal films recording;
- Live events broadcast over fiber
- High performance(error-free) surveillance networks in Army or security;
- Intelligent Traffic Monitoring System
- Industrial monitoring (Electricity, Chemistry, Steel, Oil, Railway & etc)
- Military Monitoring (Warehouse, Border, Guards,etc)
- Stadium (For LIVE HD video, audio transmission)



Technical Indexes

Formats	Supports ST-2082-1(12G), ST-2081-1(6G), ST-424(3G), ST-292(HD) And ST-259(SD)
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 Tally (optional)
Data type	Backward RS485 (optional)
Optical transmission bandwidth	270MHz~12GHz
Power	5-15 VDC
Power Consumption	2 W (Max.)
Dimensions (LxWxH)	80 x 40 x 20 (mm)
Storage Temperature	-40°C ~80°C
Operating Temperature	-40°C ~85°C

Panel



TALLY Connection:

Transmitter TALLY Signal Output Connection: (Can drive the LED indicator directly)

	TA	TB	TC
LED Type	LED -	LED +	LED- (TA reverse output)

Receiver TALLY Signal Input Connection: (LED load type is only suitable for OC drive LED - driver)

	TA	TB	TC
LED Load Type		LED -	LED +
Switching Value type	Com	NC/NO	

RS485 Connection:

Transmitter RS485 Signal Output Connection

	TA	TB	TC
RS485	A	B	

Receiver RS485 Signal Input Connection

	TA	TB	TC
RS485	A	B	GND

Ordering Information

Model	Description
20100357	Mini-type 12G-SDI to Fiber Converter with Tally and loop out, SMF, LC Fiber Connector 20KM, including Transmitter and Receiver, used by pairs
20100358	Mini-type 12G-SDI to Fiber Converter with Reverse RS485 and loop out, SMF, LC Fiber Connector 20KM, including Transmitter and Receiver, used by pairs