



Product Name	GAOTek SDI Fiber Converter Connector
Product SKU	GAOTek-CNT-105
Product URL	https://gaotek.com/product/gaotek-sdi-fiber-converter-connector/



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GAOTek SDI Fiber Converter Connector



1. Overview

The Mini-type Fiber Converter supports 1-channel Video (audio embedded) & Tally or Reverse RS485 signal transmitted via fiber optical cable and monitors the signal locally over an SDI loop output. E-link SDI Video over Fiber Converters includes one transmitter and one receiver for SDI signal.

2. Features

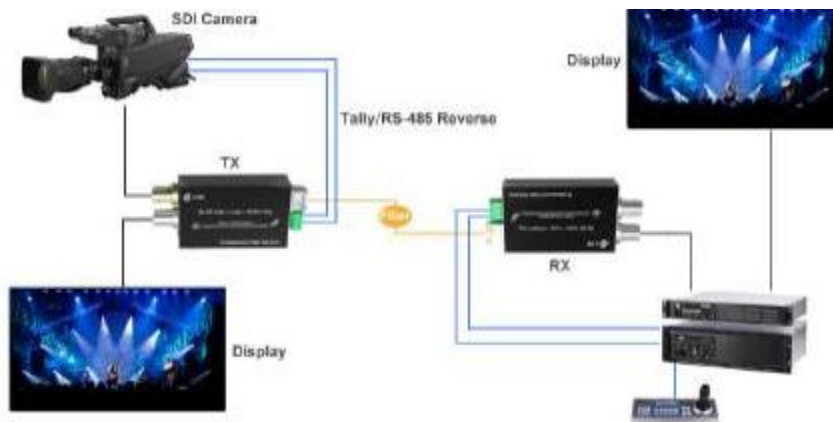
- Each channel includes 8-channel audio embedded;
- Automatic cable equalization, used for all rates below 3.2/12 Gb/s (Belden 1694A)
- Automatic re-clocking 270Mbit/s - 1.48Gbit/s - 3Gbit/s - 12Gbit/s

Based in New York City & Toronto, GAOTek Inc. is ranked as one of the top 10 global B2B technology suppliers. GAOTek ships overnight within the U.S. & Canada & provides top-notch support thanks to its 4 decades of experience.

- Directly compatible with HD-SDI camera systems ; Long transmission capability up to 80 km ;
- Hot swap and hot plug;
- Super optic dynamic range and free of adjustment;
- LED Status Indication to monitor the working conditions;
- Handle all Pathological patterns, fully digital non-compression broadcast level transmission

3. Application

- Animal films recording
- Live events broadcast over fiber
- High-performance (error-free) surveillance networks in Army or security;
- Intelligent Traffic Monitoring System
- Security systems
- Industrial monitoring (Electricity, Chemistry, Steel, Oil, Railway &, etc) Military Monitoring (Warehouse, Border, Guards, etc)
- Stadium (For LIVE HD video, and audio transmission)





4. Specifications

Parameter		
Video	Interface	BNC
	Input/output impedance	75Ω
	Input/output voltage	Typical: 1Vpp, Min 0.5Vpp, Max 1.5Vpp
	Bits Rate	Max 3.2/12Gb/s
Optical fiber	Fiber interface	LC
	Transmission distance	0~80Km
	Wavelength	Depends on SFP
Data	Physical interface	Industrial standard screw terminal
	Data type	Tally or Reverse RS485
	Frequency/Rate support	Max. 57600bps for RS485
Electrical	Power adaptor	DC 5V
	Power consumption	<5W
Environmental	Storage Temperature	-40°C ~ +80°C
	Working Temperature	-20°C ~ +70°C
	Humidity	0% ~ 95%

5. Interface and LED





6. Instruction of Installation

1. Before you install

Check the product upon receipt for any visible damage that may have been caused during shipment.

- 1) Package Content: SDI Fiber Transmitter x 1, SDI Fiber Receiver x 1, SFP Module x 1 pail, Power Adapter x 2, User Manual x 1
- 2) Please read the user's manual carefully before you install the product.
- 3) Please read the safety instructions carefully
- 4) Do not open the device;
- 5) Please note the label on the devices, T is a transmitter, and R is the receiver.

2. Procedure of installation

- 1) Connect the optical Transmitter and camera or other output device. And connect with fiber. Then power the device on.
- 2) Connect the optical Receiver and monitor. And connect with fiber. Then power the device on.

3. TALLY or Reverse Connection:

TALLY or RS485 Signal Output Connection: (Can drive the LED indicator directly)

TALLY	+	-
Reverse	Data+	Data-



7. Safety



BE CAREFUL!
WARNING THIS LABEL REMINDS YOU THIS EQUIPMENT
MAY DO HARM TO YOU.



TAKE CARE OF ELECTRIC SHOCK!
WARNING THIS LABEL REMINDS YOU THIS EQUIPMENT
MAY DO HARM TO YOU OR YOUR PROPERTY

8. Model Information

Model 01	Mini-type 3G-SDI to Fiber Converter with RS485/Tally and loop out, LC Fiber Connector 0~80km, including Transmitter and Receiver, used by pairs
Model 02	Mini-type 12G-SDI to Fiber Converter with Tally, Reverse RS485 and loop out, LC Fiber Connector 0~80KM, including Transmitter and Receiver, used by pairs
Model 03	Mini-type HD-SDI to Fiber Converter, LC Fiber Connector 0~120km, including transmitter and Receiver, used by pairs

Please verify all items are included in the box. If anything is missing, please contact the vendor.