



4-Channel 3G-SDI Fiber Converter (with RS485 & Tally)

Features

- ▶ 4-channel 3G-SDI video, compatible with 3G/HD/SD-SDI standards
- ▶ Integrates RS485 (full/half duplex) and 4-channel Tally signals
- ▶ Single-mode single-fiber transmission, 20km standard (customizable)
- ▶ Non-compressed video, low jitter, broadcast-grade performance
- ▶ Optional Gigabit Ethernet, wide operating temperature range, high reliability (MTBF >100,000h)



Product Description

This 4-channel 3G-SDI fiber converter transmits 3G-SDI HD video, RS485 data and 4-channel Tally signals via a single-mode fiber. It offers non-compressed broadcast-level video quality, with loop output function, and is paired with transmitter & receiver for stable professional broadcast applications.



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Product Specification

SDI Input	<ul style="list-style-type: none">- Standard: ST-424(3G), ST-292(HD), ST-259(SD)- Data Rate: 270Mbit/s - 3Gbit/s- Input Port: 4×BNC- Reflection Loss: >15dB- Equalization: 0-150m @3Gb/s
SDI Output	<ul style="list-style-type: none">- Output Port: 4×75Ω BNC- Nominal Signal Level: 800mV- Rise/Fall Time: 200ps typical- Overshoot: <10% amplitude- Reflection Loss: >15dB- Jitter: <0.2UI
Optical Module	<ul style="list-style-type: none">- Fiber Type: Single-mode- Channel: 1- Transmission Distance: 20km (customizable)- Connector: FC/UPC (SC/LC/ST optional)- Reflection Loss: >15dB- Jitter: <0.2UI
RS485	<ul style="list-style-type: none">- Protocol: Full/Half Duplex, NRZ/RZI/Manchester- Max Baud Rate: 57600bps- Connector: Industrial screw terminal
Tally Signal	4 Channels (A/B/C/D), industrial screw terminal connection
Ethernet (Optional)	<ul style="list-style-type: none">- Standard: 10/100/1000M- Connector: RJ45
Power Supply	12VDC, 1A
Mechanical Parameters	<ul style="list-style-type: none">- Size: 22×17×3cm- Net Weight: 0.6kg- Gross Weight: 3kg
Environmental	- Operating Temperature: -10°C ~ +55°C
Supported SDI Video Formats	625/25PAL; 525/29.97NTSC; 525/23.98NTSC; 720p50/59.94; 1080i 23/24/30/50/59.94; 1080P23.98/24/30/50/60