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

## Features

- ► 4 channel 3G/HD-SDI video transmission over optic fiber
- ► Automatic cable equalization to ensure signal integrity
- ► Automatic reclocking 270Mbit/s - 1.48Gbit/s-3Gbit/s
- ► Directly compatible with 3G/HD-SDI camera systems and support 4Ch Loop output
- ► Long transmission up to 20 km (12.5miles) (Other distance Optional)
- ► Supports 4Ch Tally
- ► Full digital non-compression broadcast level transmission;
- ► Support 1Ch backward RS485 and 4Ch Tally;
- ► Working temperature range (-10℃~+55℃)

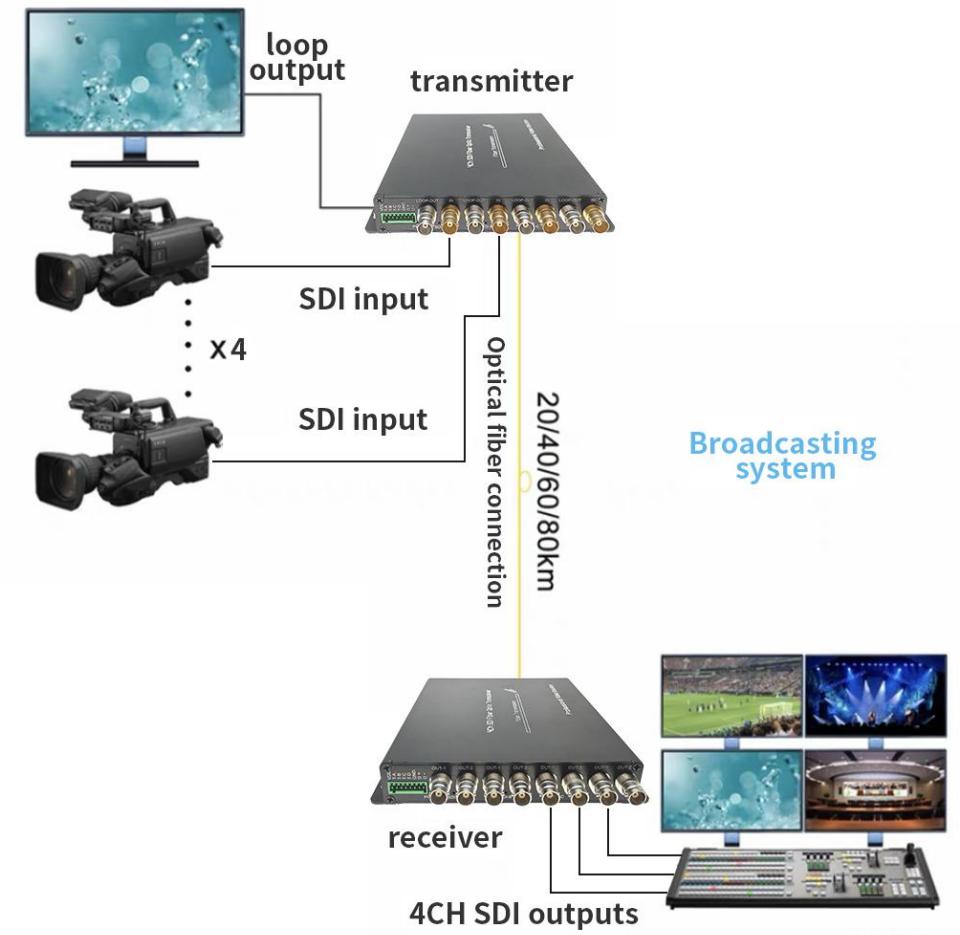


## Overview

LNK-3GSDI-4V1DT Series supports 4-channel HD/3G-SDI standard high-definition video signal and RS485 and Tally signal transmitted via single fiber optical cable. 3G-SDI Video over Fiber Converters includes one transmitter and one receiver for 1080P 3G-SDI signal. 3G-SDI Fiber Converters can transmit 4-Ch 3G-SDI Video signal through a single optical fiber, and it support Loop output, 4Ch Tally and backwards RS485. The video quality is non-compressed broadcast level. It's widely used in broadcast field.

## Application

- Live events broadcast over fiber
- High performance(error-free) surveillance networks in Army or security;
- Large video wall system
- 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

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|---|---|
| **SDI Input** | SMPTE 424M, SMPTE 292M, SMPTE 259M, DVB-ASI, DVB-SSI and Telecom/Datacom |
| | 270Mbit/s - 1.48Gbit/s – 3Gbit/s |
| | Input number: 4 |
| | Reflection loss: >15DB |
| | Equilibrium: 0-150m @3Gb/s |
| | Connector: BNC |
| **Optics** | Channel: 1 |
| | Type: single-mode |
| | Transmission distance: 20km (Other distance Optional) |
| | Reflection loss: > 15dB |
| | Dithering: < 0.2UI |
| | Connector: FC/UPC (SC, LC, ST optional) |
| **SDI Output** | Output number:4 |
| | Signal level: 800mV nominal |
| | Rise/fall time: 200ps indication |
| | Overshoot: < 10% amplitude |
| | Reflection loss: >15dB |
| | Dithering: < 0.2UI |
| | Connector: 75Ω BNC |

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|---|---|
| **Data** | 1Ch RS-485 (full/half duplex) and support NRZ, RZI and Manchester |
| | Max. 57600bps for RS485 |
| | Connector: Industrial standard screw terminal |
| | 4Ch Tally: A, B , C, D |
| **Power and environmental indication** | Operating temperature: -10℃～＋55℃ |
| | Power Input: 1A@12VDC |
| | EMI/RFI: meet FCC Part 15 Class A, EU EMC standard |
| | Average time trouble-free: >100000 hours |
| **SDI video format supports** | 625/25PAL; 525/29.97NTSC; 525/23.98NTSC; 720p50; 720p59.94; 1080P23.98/24/30/50/60; 1080i 23/24/30/50/59.94; |

## Ordering Information

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|---|---|
| ZP-HDSDI-4V1D4T | 4-Ch HD-SDI Video with Loop output + 1Ch backward RS485 + 4Ch Tally, SM 20km, FC, including 1 transmitter & 1 receiver, used by pairs |
| ZP-3GSDI-4V1D4T | 4-Ch 3G-SDI Video with Loop output + backward RS485 + 4Ch Tally, SM 20km, FC, including 1 transmitter & 1 receiver, used by pairs |