



HD-SDI To Fiber Converter

HD-SDI0401

◆ 4 channel HD-SDI with 1channel RS485 Data to fiber converter

➤ Features

- Compatible with HD-SDI and ASI signals, SDI / ASI signal adaptive
- Meet SMPTE259M, SMPTE297M, SMPTE310, SMPTE305 (SDTI) standard
- Automatically adapt SDI143 Mbps, 177 Mbps, 270Mbps, 360 Mbps, 540Mbps, 1.48Gbit rate
- High-precision PCR correction, the average PCR jitter is usually maintained at 20 ~ 60ns
- Transmitter output power 0 ~ -14dBm (loss determined according to the actual chain of transmission power)
- By Pathological (extremely harsh environments) Test
- Support 1080P 30HZ / 1080I / 720P; suitable for HD-SDI monitoring system and the broadcasting system.
- Full surface mount technology
- Industrial design, high reliability
- Support customization and OEM

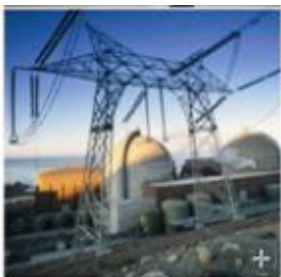


➤ Introduction

The HD-SDI0401 is a high performance, and reliable, 4-channel HD-SDI video optical transceiver, which perform real-time, loss-free and high-quality HD-SDI transmission (audio embedded) over an optical line. Besides, HD-SDI0401 provides one bi-directional RS485 data channel, and optional audio/contact closure/RS422/RS232 data transmission, which can be widely used in TV live broadcast, high-definition video conference, high-definition video monitoring, intelligent transportation system and public security system.

➤ Application

- Urban Intelligent Traffic Monitoring System (ITS), Safe City
- Highway monitoring system, electronic road monitoring, capture system
- Large industrial enterprise security monitoring system, network multifunction system
- Remote multimedia teaching / campus monitoring, video conferencing systems
- Long-distance radio and television, high-quality video and audio transmission system
- Building intercom, military communications, military surveillance



➤ Specification

Optical	
Wavelength	1310nm
Output Power	-8~ -3dBm
Optic fiber	50/125u multimode, 62.5/125u multimode, 9/125u single mode
Rx sensitivity	-22dBm
Optical connector	FC,ST,SC (optional)
Distance	0~500M (multi mode) / 0~20Km (Single mode)
HD-SDI	
Connector	BNC
Bit rate	1.485Gb/s and 270Mb/s auto adaptive
Impedance	75Ω
Return loss	>15dB
Output level	800mVp-p ± 10%
Standard	Comply to SMPTE-292M HD-SDI and SMPTE-259M SD-SDI standard
Data	
Data protocol	RS-485(2 lines),RS232,RS422 and so on
Baud rate	0~115.2Kb/s
Error rate	< 10 ⁻⁹
Duplex	Half-duplex
Connector	Standard terminal lead
Other	
Input Power	5V DC
Power consumption (maximum)	3W
Operating temperature	-40 ℃ to 85 ℃
Storage temperature	-45 ℃ to 95 ℃
Operating humidity	5 ~ 95% (non-condensing)
Net Weight	800g per pair
Case material	Aluminum
Size	208X208X25mm

➤ Ordering Information

Model NO.	Description
HD-SDI0400	4channel HD-SDI to fiber converter
HD-SDI0401	4 channel HD-SDI with 1channel RS485 Data to fiber converter

➤ **Connection diagram**

