

1 Channel HD-SDI Extender

Mini 1 Channel Unidirectional HD-SDI Extender over SM Optical Fiber for 20km



Overview

Mini 1 Channel Unidirectional HD-SDI Extender can simultaneously transmit 1 channel HD-SDI video over one single-mode optical fiber. Electronic and optical adjustments are never required. LED indicators are provided for instantly monitoring system status. Devices are available for either standalone or rack-mount installation, which is suitable for different working environment.

Mini 1 Channel Unidirectional HD-SDI Extender adopts the advanced uncompressed HD composite video and high velocity digital optical transmission technologies, which convert the composite signals to optical signals to achieve long distance for the HD CCTV installation.

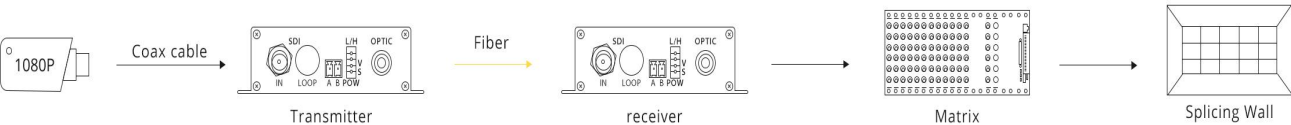
Benefits

- Plug and Play, Simple Installation
- Industrial Wide Range of Operational Temperature
- Automatically Identify Formats of Input Videos
- LED Indicators Informs the Functional Mode
- Non-compression Coding Technology

Application

- City Traffic Monitoring System
- Public Security, Safe City Monitoring System
- Highway Security Protection, Charging System
- Building, Campus Monitoring Net
- Industrial Monitoring (Airport, Chemical Industrial, Steel, Oil, Railway, Water Conservancy, Mine, etc)
- Military Monitoring (Storehouse, Frontier Defense, Guard, Nation Defense, etc)
- Electric Power, Oilfield, Television Program Transmission System
- Gymnasium (Live Video, Audio Transmission)

Connection Diagram



Technical Specification

FS3010MD Mini 1 Channel Unidirectional HD-SDI Extender comes with an outstanding performance and quality. Here's a look at the details.

Characteristics

	FS3010MD
Optical	
Fiber Type	Single-mode/Multimode Fiber
Fiber Connector	FC
Distance	20KM (Single-mode Fiber), 1KM multimode Fiber)
Wavelength	1310nm, 1550nm, or CWDM Wave
Fiber Power	-9 to +3dBm
Receiver Sensitivity	-5 to -24dBm
Video	
Video Interface Number	1 Channel
Physical Interface	BNC

Characteristics

	FS3010MD
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Optical

Tx Input level	>500mVp-p
Rx Output level	1-1.2Vp-p
Bandwidth of Video	50M (720P) 100M (1080P)
Differential Phase	≤ 2
Differential Gain	≤ 2%
Input/Output Impedance	75 Ω
Surge Protection	10/700us:(1-1.5kv)
Sampling Digit	10 Bit
Sampling Frequency	60Mhz

Data (Optional)

Physical Interface	The Industry Standard Connecting Terminal
Interface Signal	RS485 Manchester
Baud Rate	≤115,200bps
BER	< 10 -9
Operation Mode	Reverse

Environmental Specifications

Environmental Temperature	-40℃~+50℃
Storage Environment	-40℃~+85℃
Relative Humidity	0-95% (No Condensation)
Mean Time Between Failures (MTBF)	≥100,000 Hours
EPS	DC 12V

Warranty

Warranty	1 Year
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Ordering Information

FS P/N	ID NO.	Description
FS3010MD	#32827	Mini 1 Channel Unidirectional HD-SDI over Optical Fiber Transmitter and Receiver Set
FS3040	#32623	4 Channel Unidirectional HD-SDI over Optical Fiber Transmitter and Receiver Set
FS3016	#32751	16 Channel Unidirectional HD-SDI over Optical Fiber Transmitter and Receiver Set