FS

4 Channel & 16 Channel HD-SDI Extender

4 Channel & 16 Channel Unidirectional HD-SDI Extender over SM Optical Fiber for 20km

Overview

4 Channel/16 Channel Unidirectional HD-SDI Extender can simultaneously transmit 4 Channel/16 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.

4 Channel/16 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.
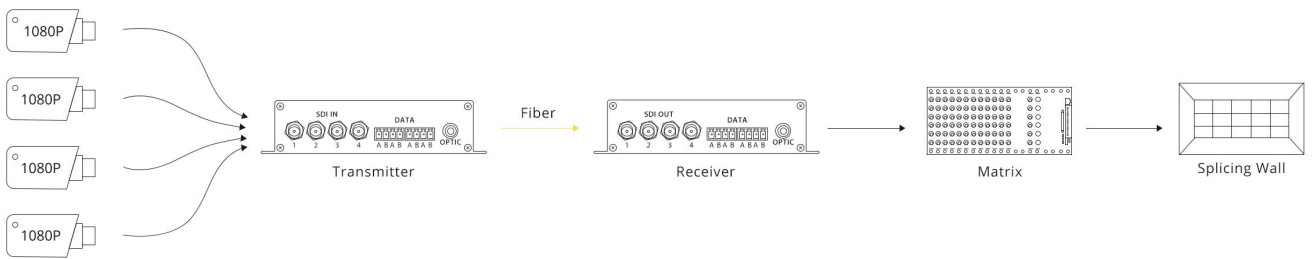
Benefits

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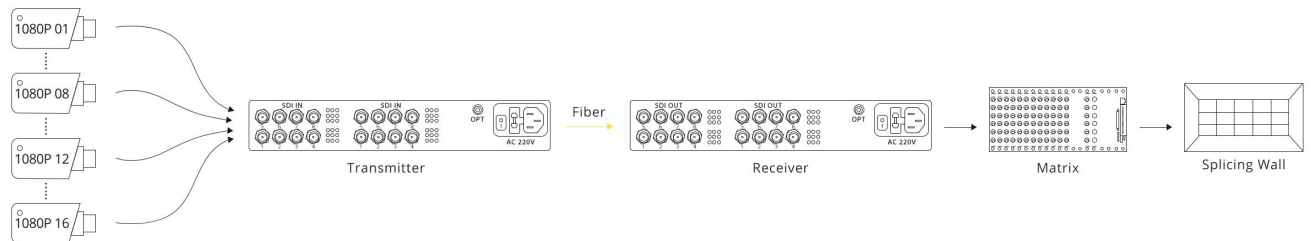- Non-compression Coding Technology

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

4 Channel HD-SDI Extender

16 Channel HD-SDI Extender

Technical Specification

4 Channel and 16 Channel Unidirectional HD-SDI Extender come with an outstanding performance and quality. Here's a look at the details.

Characteristics

	FS3040	FS3016
Optical		
Fiber Type	Single-mode/Multimode Fiber	Single-mode fiber (9/125um)
Fiber Connector	FC	FC
Distance	20KM (Single-mode Fiber), 1KM (multimode Fiber)	20KM (Single-mode Fiber)
Wavelength	CWDM Wave	CWDM Wave
Fiber Power	-9 to +3dBm	-6 to +5dBm
Receiver Sensitivity	-5 to -24dBm	-5 to -24dBm
Video		
Video Interface Number	4 Channels	16 Channels
Physical Interface	BNC	BNC
Tx Input level	>500mVp-p	>500mVp-p
Rx Output level	1-1.2Vp-p	1-1.2Vp-p
Bandwidth of Video	50M (720P) 100M (1080P)	50M (720P) 100M (1080P)
Differential Phase	≤ 2	≤ 2
Differential Gain	≤ 2%	≤ 2%
Input/Output Impedance	75 Ω	75 Ω
Surge Protection	10/700us:(1-1.5kv)	10/700us:(1-1.5kv)
Sampling Digit	10 Bit	10 Bit
Sampling Frequency	60Mhz	60Mhz
Data (Optional)		
Physical Interface	The Industry Standard Connecting Terminal	The Industry Standard Connecting Terminal
Interface Signal	Optional RS485/RS422/RS232/Manchester	RS485/RS422/RS232/Manchester

Characteristics

	FS3040	FS3016
Data (Optional)		
Baud Rate	≤115,200bps	≤115,200bps
BER	< 10 -9	< 10 -9
Operation Mode	Full duplex / half duplex	Full duplex / half duplex
Environmental Specifications		
Operation Temperature	-40℃～+50℃	-40℃～+50℃
Storage Temperature	-40℃～+85℃	-40℃～+85℃
Relative Humidity	0-95% (No Condensation)	0-95% (No Condensation)
Mean Time Between Failures (MTBF)	≥100,000 Hours	≥100,000 Hours
EPS	DC 12V	90VAC-245VAC to 12V
Warranty		
Warranty	1 Year	1 Year

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

FS

UK

America

Germany

China

Singapore

Australia

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