

## HD-SDI Fiber Optic Extender

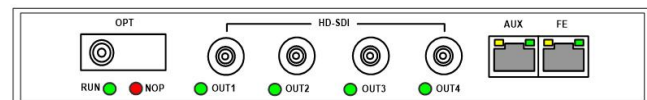
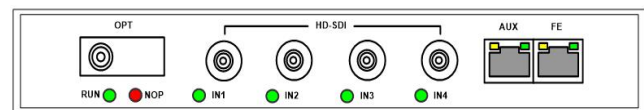
Model No: FLH40ND

### Description

Beijing Fiber Linker Communication Co., Ltd has been in video audio transmission system solution for almost 10 years. Our SDI fiber optic extender has been widely used in our domestic and overseas for broadcast TV transmission system. We could do SDI extender over fiber by CWDM, DWDM and TDM uncompressed solution with data, external audio Ethernet, tally and other functions. The fiber connectors could be ST, FC, SC, LC, SMPTE, LEMO type. We welcome any OEM request for SDI over fiber series.

### Features

1. 4-ch HD-SDI with 1-ch 100M Ethernet, 1-ch RS422
2. Two audio channels embedded in each SDI signal
3. Option: One auxiliary channel, which can be 2-channel bi-directional audio, or 2-channel unidirectional audio, or 4-channel unidirectional audio, or 2-channel contact closure input/output or 1-channel bi-directional contact closure, or 1-channel bi-directional RS422 , or 2-channel bi-directional RS232 channel
4. One bi-directional RS422 channel, full duplex, up to 115.2Kb/s baud rate
5. Embedded ESD and surge protection circuit to prevent damage from static and thunder
6. support digital standards SMPTE 292M, SMPTE 259M
7. With APC circuit to perform stable optical power
8. With NOP (No optical signal) alarm indications, output status indicator and input lock indicator



### Order Info

Model Number	Specification
FLH40ND	4-Ch forward HD-SDI, 1-ch full duplex RS422, 1-ch 100M Ethernet, single mode, single fiber, FC, stand alone, 20KM

### Application

Remote OB Van/Truck Video Feeds, Broadcast Studio Camera Feeds, TV station/video conference, broadcast live transmission, Medical/Surgical Room Broadcast, Building to Building video conference, video wall controller, commend center.

## Specification

<b>SDI In/Out</b>	Number	4 input on transmitter , 4 output on receiver
	TV signal standard	SMPTE 292M, 259M
	Resolution	1080P@30,25,24, 29.97, 23.98、 1080I@60,50,59.94、 720P@60,50,30,25,24, 59.94, 29.97, 23.98 and 625i、 525i format,  when input is 1080P@29.97, 23.98、 1080I@59.94、 720P@59.94, 29.97, 23.98, the output is 1080P@30, 24、 1080I@60、 720P@60,30, 24 respectively
	Equilibrium	0-100m @ 2.97Gb/s
	Signal level	800mV nominal
	Rise/fall time	200Ps nominal
	Overshoot	<10% amplitude
	Reflection loss	> 15dB
	Jitter	< 0.2UI
	Connector	75Ω BNC
<b>Ethernet</b>	1-ch RJ45, 10M/100M shared	
<b>Data</b>	1-ch RS422,full duplex, RJ45, ≤115200bps	
<b>Fiber Optic</b>	Channel	1 core
	Type/Distance	Single-mode/20KM standard, optional max 80KM
	Wavelength	1310nm/1550nm
	Connector	FC
	Output Power	About +5dB to -5dB
	Receiver sensitivity	-5dB for 20KM, optional max is -21dB
<b>Power and Environmental</b>	Operating temperature	-40°C~ +45°C
	Power Supply	12V DC
	Power Consumption	6W
	EMI/RFI	FCC Part 15 Class A, EU EMC standard
	MTBF	>100000 hours
<b>Other</b>	housing	Stand alone
	Weight	3Kg (TX+RX)
	Size	180mm x 123mm x 30mm

## Diagram

