



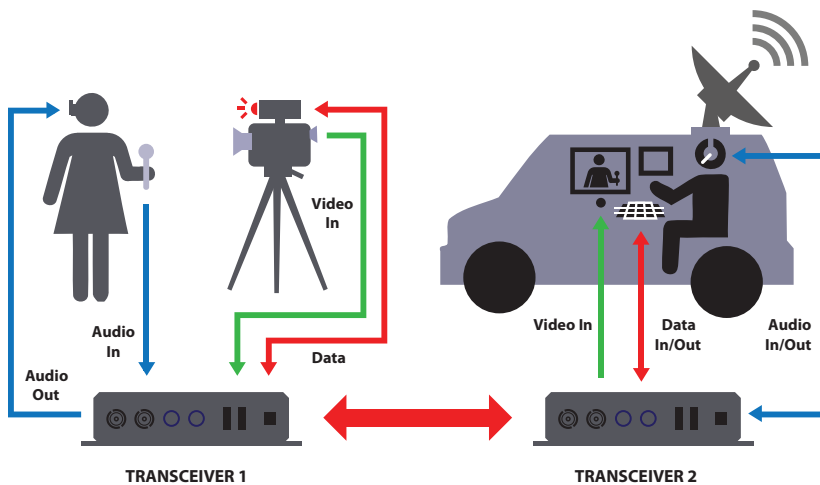
FiberLink® 3390 SDI Flex Series



Broadcast quality 3G/HD/SD-SDI with two-way audio, data, Ethernet, and contact closure over one fiber in a compact box!

The SDI Flex 3390 Series allows you to transmit 3G, HD or SD-SDI as per SMPTE 424M-2006, 292 and 259 as well as DVB-ASI. If you have previously embedded audio or data into your SDI signal, the SDI Flex will retain the audio and data, bit-for-bit, throughout the entire transmission process.

In addition to pristine, broadcast quality SDI, the FiberLink SDI Flex 3390 can transmit bidirectional audio, RS-Type data, Ethernet and even contact closure! Best of all, all channels are independent and available simultaneously!



One-Way SDI with Bi-Directional Audio, Data, IP, & Contact Closure on One Fiber

FEATURES

3G/HD/SD-SDI with Bidirectional Audio, Data, Ethernet and Contact Closure over Fiber

Ideal applications for: Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging

3G/HD/SD-SDI signal transmission with two-way audio, data, 10/100Base-T Ethernet and contact closure over one fiber.

All channels are independent and available simultaneously.

SDI signal is equalized and re-clocked prior to fiber optic transmission.

SDI output is re-clocked after optical reception. ASI signals also supported.

Compliant with all applicable SMPTE standards.

Wide operating temperature range: -10C to +50C. Available in Box and Card versions.

ST connectors available.

SPECIFICATIONS

General Specifications

Number of Fibers Required:	1 (3390/3391)
Indicators:	Power, 3G/HD/SD data rate, Audio activity, RS-Data Activity Ethernet LEDs on RJ-45 Connector Alarm (card version only)
Box Version Dimensions:	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight:	approx. 1 lb.; 0.45 kg
Slots in 6000A Card Cage:	2
Power:	9-24 volts, AC or DC 7.5 watts, 25.6 BTU/Hr
Operating Temperature:	-10° C to +50° C
MTBF:	27,000 Hours

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 424M-2006, 305M, 310M, 344M, DVB-ASI
Re-clocked Data Rates	270 Mbps (SMPTE 259M, DVB-ASI-270), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

Serial Video BNC Output

Number of Outputs	1
Signal Level	800mV ± 10%
DC Offset	0V ± 0.5V
Rise/Fall Time	< 135 ps at 2.97 Gbps per SMPTE 424M-2006; < 270 ps at 1.485 Gbps per SMPTE 292; 0.4 ns to 1.5 ns at 270 Mbps per SMPTE 259M
Overshoot	< 10% of amplitude
Timing Jitter	< 0.2 UI at 270 Mbps; < 1.0 UI at 1.485 Gbps; < 2.0 UI at 2.97 Gbps with color bar signal
Alignment Jitter	< 0.2 UI at 270 Mbps; < 0.2 UI at 1.485 Gbps; < 0.3 UI at 2.97 Gbps with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

Audio Specifications

Number of Audio Channels	2, balanced or unbalanced, bi-directional
Bits per sample/ Sampling Rate	24 bits, 52 kHz
Audio Connector	Removable terminal block
Switches	• Select input termination • Balanced or unbalanced input/output, selectable on a per-channel basis
Frequency Response	+0/-0.5 dB, 20 Hz - 20 kHz
Maximum Audio Level	+10 dBu
Signal-to-Noise Ratio (A-weighted)	95 dB referenced full scale (balanced)
THD	0.002%, 20Hz - 20 kHz, full scale
Channel Phase Differential	±0.1°
Crosstalk	-100 dB (1kHz)

Audio Specifications, Cont.

Audio Noise Level	-85 dBm
System Gain	Unity Gain, ±3%, input: balanced 600 ohms, 50 ohms source impedance ; output: balanced into 600 ohms.
Input Impedance	600 Ohms terminated, >24K ohms unterminated
Output Impedance	50 Ohms nominal
Audio to Video Diff. Delay (skew)	<300 usec

Ethernet Specifications

Port:	10/100 Base-T, RJ-45 connector, Configured as MDI
Speed:	10 Mbps & 100 Mbps Ethernet, Switch Selectable

Data Specifications

Data Channels	1 Channel, Bi-Directional
Data Bandwidth	DC to 115 Kb/sec, max.
Control Format	Switch selectable RS-232, RS-422 & RS-485 (4 wire or 2 wire);
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Signal Connectors:	Removable terminal block

Operating Loss Budget & Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-16	1.485 Gbps	40 km
	0-16	270 Mbps	40 km

*Distance specifications are approximate, based upon connecting a 3390 Transceiver to a 3391 Transceiver, and are not guaranteed. Artel cannot estimate or guarantee operating loss budgets when the 3390 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.



UPDATED 11/05/2017

All specifications subject to change without notice. ©2017



Ordering Information

Part Number	Description	Fiber Cores
3390-x7S	Transmitter	1
3391-x7S	Receiver	1

PDPS-1-pp Power Supply

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Part Number Suffix Codes:

x: B - Box Version C - Card Version

Sales



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