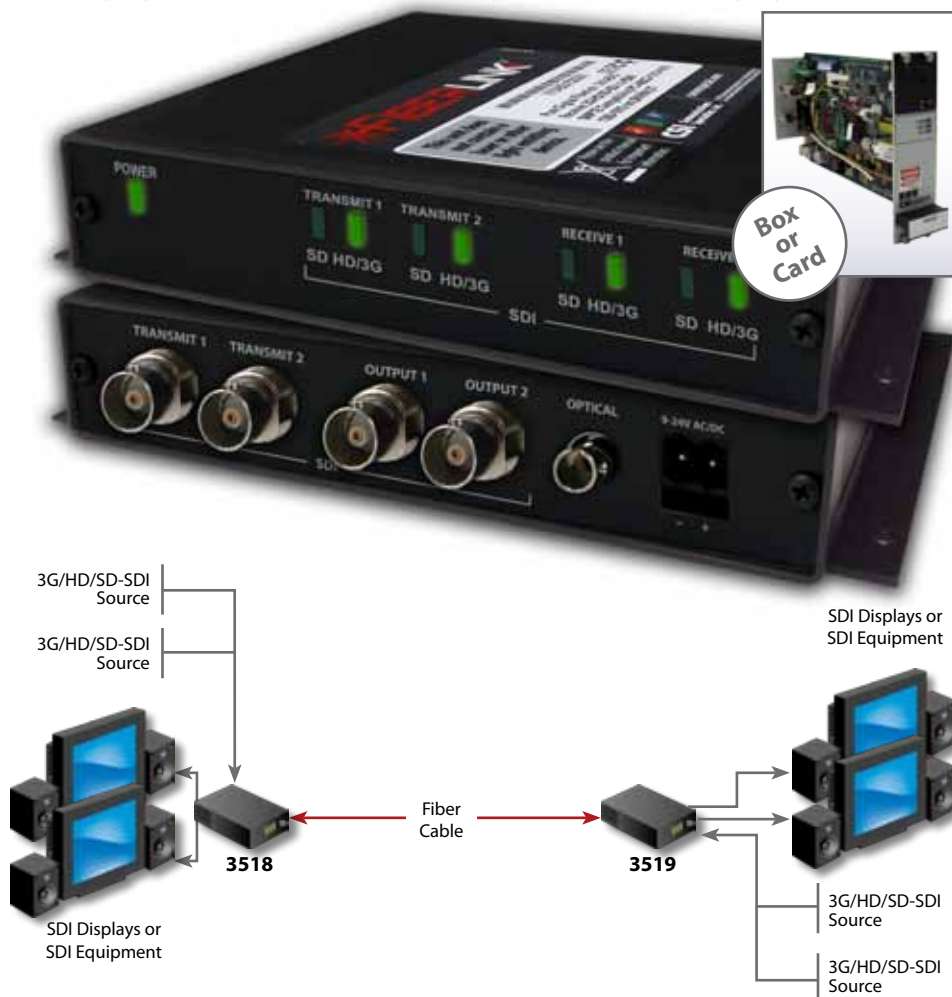




## 4 Channels of Bidirectional 3G/HD/SD-SDI or DVB-ASI Over One Fiber

### Ideal Applications:

Broadcast or corporate studios, OB Vans, film & production, rental & staging, stadiums and theaters, surgical or medical imaging and more!



Signal	Channels	Direction
3G/HD/SD-SDI or DVB-ASI	4	↔

### Features

Supports 4 Channels: two upstream, two downstream

Signals are equalized and re-clocked prior to fiber optic transmission

Re-clocked SDI output

Immunity to pathological patterns over entire link budget and operating temperature range

Compliant with SMPTE ST 425-3, 259M-2006, 292-2006, 424M-2006

Supports transmission of SMPTE 305M-2005, 310M-2004, 344M-2000, DVB-ASI

Available in both Single Mode and Multimode (62.5u & 50u) versions

Supports 3G/HD/SD-SDI inputs with or without embedded audio and data

19 dB Optical Link Budget @ 2.97 Gbps for High Power, Longer Distance version

Wide operating temperature range: -10° C to +50° C

Compatible with all CSI SDI transmitters and receivers using CSI CWDM products

Available in Box and Card versions

Card version compatible with the Fiberlink® 6000A Rack Card Cage

Designed and Manufactured in the USA by CSI

### Ordering Information

Part Number	Description	Fiber Cores
3518-x3z	Multimode Transceiver (High Power, Longer Distance)	1
3519-x3z	Multimode Transceiver (High Power, Longer Distance)	1
3518-x9z	Single Mode Transceiver (High Power, Longer Distance)	1
3519-x9z	Single Mode Transceiver (High Power, Longer Distance)	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      z: L LC Connector  
C Card Version      S ST Connector

### Sales



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[info@commspecial.com](mailto:info@commspecial.com)



## 4 Channels of Bidirectional 3G/HD/SD-SDI or DVB-ASI Over One Fiber

### Fiberlink® 3518/3519 Transmitter Specifications

#### Serial Video BNC Input

Number of Inputs	2
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE ST 425-3, 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, 140m at 1.485 Gbps and 180m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

#### Optical Output

Connector	LC or ST
Wavelengths	1510, 1530, 1550, 1570 (nominal)
Emitter Type	DFB Laser
Output Power ( <i>nominal</i> )	+2 dBm
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

### Other Members of the Fiberlink® 3500 Series Family

#### 4 Channels of Bi-Directional 3G/HD/SD-SDI Over One Fiber!



Fiberlink® 3528 Series delivers two channels of 3G/HD/SD-SDI upstream and two channels of 3G/HD/SD-SDI downstream!

#### 2 Channels of 3G/HD/SD-SDI Over One Fiber!



Fiberlink® 3512-3513 Series delivers two channels of 3G/HD/SD-SDI with support for 4K/UHD resolutions up to 30 fps!

## Fiberlink® 3518/3519 Receiver Specifications

### Fiber Optic Input

Connector	LC or ST
Wavelength	1100 - 1620 nm
Minimum Input Sensitivity	-17 dBm at 2.97 Gbps; -20 dBm at 1.485 Gbps -21 dBm at 270 Mbps;
Maximum Input Power	-1 dBm

### Serial Video BNC Outputs

Number of Outputs	2
Signal Level	800mV $\pm$ 10%
DC Offset	0V $\pm$ 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

### Fiberlink® 3518 & 3519 General Specifications

4K / UHD Support	up to 30 fps using 2 inputs
Link Timing Difference	0.3nS/km of fiber
Indicators	Power, Data Rate lock (SD, HD/3G) Alarm (Card Version Only)
Box Version Dimensions	6.5 W x 1.15 H x 6 L (inches) 165 W x 29 H x 152 L (mm)
Weight	12.3 ounces, 382 grams
Slots in 6000A Card Cage	2
Power	9-24 volts, AC or DC, 3518: 5.0 watts, 17.66 BTU/Hr 3519: 4.0 watts, 13.64 BTU/Hr
Operating Temperature	-10° C to +50° C
MTBF:	72,000 Hours



### Bidirectional 3G/HD/SD-SDI Series

#### Other Members of the Fiberlink® 3500 Series Family

#### 4 Channels of 3G/HD/SD-SDI Over One Fiber!



Fiberlink® 3514-3515 Series delivers two channels of 3G/HD/SD-SDI with support for 4K/UHD resolutions up to 60 fps!

#### Bi-Directional 3G/HD/SD-SDI Over One Fiber!



Fiberlink® 3516-3517 Series delivers one channel of 3G/HD/SD-SDI upstream and one channel of 3G/HD/SD-SDI downstream!

**Learn more about the industry's largest selection  
of fiber optic transmission products at  
[commspecial.com](http://commspecial.com)**

## High Power, Longer Distance Version

### Operating Loss Budget & Maximum Usable Distance\*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	3-19	2.97 Gbps	60 km
	3-20	1.485 Gbps	65 km
	3-20	270 Mbps	70 km
Multimode ( 62.5u )	3-19	2.97 Gbps	.8 km
	3-20	1.485 Gbps	1 km
	3-20	270 Mbps	2.5 km
Multimode ( 50u )	3-19	2.97 Gbps	1 km
	3-20	1.485 Gbps	1.3 km
	3-20	270 Mbps	3 km

\*Distance specifications are approximate, and are not guaranteed. Operating loss budget must not be exceeded.

## Other 3G-SDI Products

### Fiberlink 3380 3G/HD/SD-SDI & 2 Pairs of Analog Audio Series

SMPTE compliant 3G/HD/SD-SDI with 2 Pairs (4 Channels) of Analog Audio Embedding over one fiber



### Bidirectional 3G/HD/SD-SDI Series



Learn more about the industry's largest selection of fiber optic transmission products at [commspecial.com](http://commspecial.com)



Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

## Sales



**CSI** Communications Specialties, Inc.

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