

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!



Orderir	ng Informa [.]	tion				
Part Num	ber Desc	ription			Fibe	er Cores
3518-x3z	Multi	mode Transce	eiver (H	igh Power, Lo	nger Distance)	1
3519-x3z	Multi	mode Transce	eiver (H	igh Power, Lo	nger Distance)	1
3518-x9z	Single	e Mode Trans	ceiver (High Power, I	onger Distance)	1
3519-x9z	Single	Single Mode Transceiver (High Power, Longer Distance) 1				
PDPS-1-pp	o Powe	r Supply				
NA - North JP - Japan		AU - Austr UK - Unite	alia		EU - Europe	
Part Num	ber Suffix Cod	es:				
x: B	Box Version	z: L	LC	Connector		
-	Card Version	S	ст	Connector		

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

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 $+50^{\circ}$ 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





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Fiberlink® 3518/3519 Transmitter Specifications

Serial Video BNC Input

	Number of Inputs	2
Data Rate Range1Supported StandardsS33Re-clocked Data Rates2D122EqualizationA11	Data Rate Range	19.4 Mbps to 2.97 Gbps
	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 (nominal)	+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 ± 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

Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com



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!

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	e, and are not guarantee	d. Operating loss budget must r	not be exceeded.	

BERLIN VIDED, AUDIO & DATA OVER FIBER

Bidirectional 3G/HD/SD-SDI Series



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



Learn more about the industry's largest selection of fiber optic transmission products at 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.



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