

FiberLink 3518/3519 4 Channel Bidirectional 3G/HD/SD-SDI (4K/UHD) Series

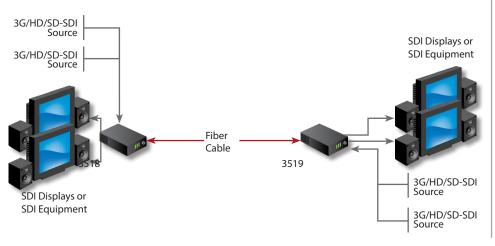


4 Channels of 3G/HD/SD-SDI or DVB-ASI Over One Fiber with 4K/UHD Resolution Support

The FiberLink 3518 series supports 4 channels of independent, bidirectional 3G/HD/SD-SDI or DVB-ASI, with or without embedded audio and data, and transmits it over one single mode fiber. Now, you can send two 3G/HD/SD-SDI signals upstream and two 3G/HD/SD-SDI signals downstream!

All SMPTE compliant signals are equalized and reclocked. Each unit features two reclocked,

non-inverting BNC outputs. The 3518 Series is compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 305M-2005, 310M-2004, 344M-2000 and DVB-ASI. The series is immune to pathological patterns over entire link budget and operating temperature range.



FEATURES

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

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 Single Mode

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 Artel SDI transmitters and receivers using Artel 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 Artel

SPECIFICATIONS

FiberLink® 3518 & 3519 Gene	ral 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

FiberLink® 3518/35	519 Transmitter S	pecifications
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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	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

FiberLink® 3518/3519 Receiver Specifications

Fiber Optic Input	
Connector	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

Operating Loss Budget & Maximum Usable Distance* High Power, Longer Distance Version

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

 $^{{}^*\!}Distance\ specifications\ are\ approximate,\ and\ are\ not\ guaranteed.\ Operating\ loss\ budget\ must\ not\ be\ exceeded.$







ade in the USA All specifications subject to change without notice. ©2017

Ordering Information

Part Number	Description	Fiber Cores
3518-x9S	Single Mode Transceiver	1
3519-x9S	Single Mode Transceiver	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



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