



FiberLink® 3514 and 3515 Series 4 Channel 3G/HD/SD-SDI (4K/UHD) Series



The FiberLink 3514 series supports 4 channels of independent 3G/HD/SD-SDI or DVB-ASI, with or without embedded audio and data, and transmits it over one single mode or multimode fiber.

When using all four inputs, FiberLink 3514 supports 4K/UHD resolutions at 60 fps. FiberLink 3514 is capable of transmitting two 4K/UHD signals at 30 fps simultaneously.

All SMPTE compliant signals are equalized and reclocked. Each receiver features four reclocked, non-inverting BNC outputs. The 3514 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.

FiberLink 3514 Series is ideal for any broadcast or professional video application: broadcast studios, sporting events, confidence monitoring, OB vans, video conferencing and more!

FEATURES

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

Signal is equalized and re-clocked prior to fiber optic transmission

Receiver features four re-clocked SDI outputs

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

Compliant with SMPTE ST 425-3, ST 425-5, 259M-2006, 292-2006, 424M-2006

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

Supports both Single Mode and Multimode (62.5u & 50u) fiber types

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

Supports 4K/UHD resolutions up to 60 fps

Standard & High Powered, long distance transmitter versions available

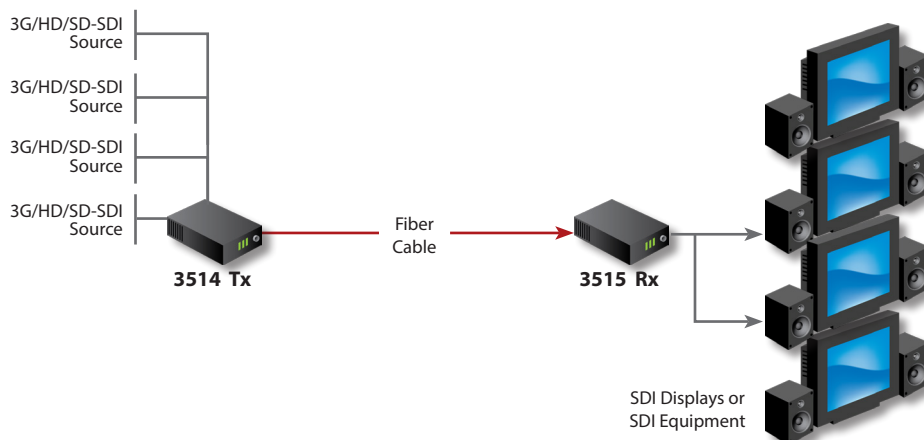
Wide operating temperature range: -10° C to +50° C

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 3514 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	4
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE ST 425-3, ST 425-5, 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	1511, 1531, 1551, 1571nm (nominal)
Emitter Type	DFB Laser
Output Power (nominal)	-4 dBm for Standard Power Version (3514-x7z)
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 GbpsA

FiberLink 3515 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	4
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

FiberLink 3514 & 3515

General Specifications

4K / UHD Support	up to 60 fps using all 4 inputs up to 30 fps using 2 inputs
Link Timing Difference	1nS/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, 3514: 5.0 watts, 17.66 BTU/Hr 3515: 4.0 watts, 13.64 BTU/Hr
Operating Temperature	-10° C to +50° C
MTBF:	72,000 Hours

Operating Loss Budget & Maximum Usable Distance*

Standard Power Version (3514-x7S)

Fiber Type	Loss (dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	50 km
	0-15	1.485 Gbps	55 km
	0-15	270 Mbps	55 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-15	1.485 Gbps	1 km
	0-15	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-15	1.485 Gbps	1.3 km
	0-15	270 Mbps	3 km



Schedule
Contract GS-03F-016CA

UPDATED 11/10/2017

All specifications subject to change without notice. ©2017

Ordering Information

Part Number	Description	Fiber Cores
3514-x7S	Transmitter (Standard Power)	1
3515-x7S	Receiver (Standard Power)	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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