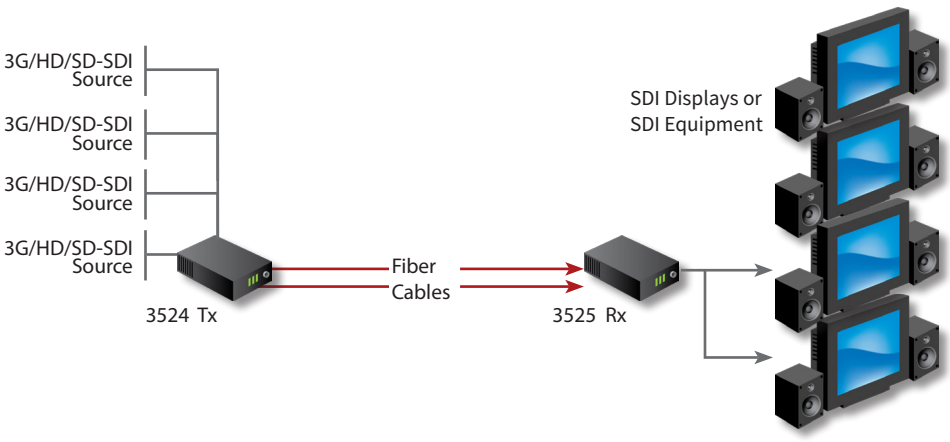
FiberLink® 3524/3525
4 Channel 3G/HD/SD-SDI (4K/UHD) Series

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

The FiberLink 3524 series supports 4 channels of independent 3G/HD/SD-SDI or DVB-ASI, with or without embedded audio and data, and transmits it over two single mode fibers. When using all four inputs, FiberLink 3524 supports 4K/UHD resolutions at 60 fps. FiberLink 3524 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.



FEATURES

4 Channel 3G/HD/SD-SDI (4K/UHD) over two Fibers

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

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

Available in Single Mode

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

Supports 4K/UHD resolutions up to 60 fps

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® 3524 & 3525 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, 3524: 5.0 watts, 17.66 BTU/Hr 3525: 4.0 watts, 13.64 BTU/Hr
Operating Temperature	-10º C to +50º C
MTBF:	72,000 Hours

FiberLink® 3524 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

Connectors	ST
Wavelengths	1310, 1550nm (nominal)
Emitter Type	FP/DFB Lasers
Output Power (nominal)	-4 dBm
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

FiberLink® 3525 Receiver Specifications

Fiber Optic Input

Connectors	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

Operating Loss Budget & Maximum Usable Distance*

Single Mode Standard Power Version (3524-x7z)

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-15	1.485 Gbps	48 km
	0-15	270 Mbps	50 km

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

Made in the USA

CE FC

GSA Schedule Contract GS-03F-016CA

UPDATED 11/10/2017

All specifications subject to change without notice. ©2017

Ordering Information

Part Number	Description	Fiber Cores
3524-x7S	Single Mode Transmitter	2
3525-x7S	Single Mode Receiver	2
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

T: +1 978-263-5775
sales@artel.com
customercare@artel.com
www.artel.com