



FiberLink® 3360 3G/HD/SD-SDI & AES/EBU Audio Series



Broadcast quality 3G/HD/SD-SDI & AES/EBU Digital Audio transmission over one single mode or multimode fiber with full SMPTE compliance.

The FiberLink 3360 Series allows you to transmit 3G, HD or SD-SDI as per SMPTE 424M-2006, 292 and 259 with the ability to embed up to 8 channels (4 pairs) of AES/EBU digital audio. Convenient switches on the 3360 Series transmitter allow the operator to embed each of the four pairs of audio independently, to strip previously serialized audio, or to pass it through without modification. At the receive end of the fiber optic link, the operator can

decide which audio pairs they need de-embedded.

Audio signals are not required to operate the FiberLink 3360 link and it can be used as a stand-alone 3G/HD/SD-SDI optical link. Previously serialized data is left intact throughout the entire transmission process and the 3360 Series is immune to pathological signals over the entire budget link and operating temperature range.

FEATURES

3G/HD/SD-SDI & 4 Pairs AES/EBU Audio over Fiber

Ideal Applications: Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!

Inserts up to 8 channels (4 pairs) of AES/EBU digital audio

Automatic Sample Rate Conversion (SRC) of audio inputs

75 ohm, unbalanced BNC audio interface per AES3id and SMPTE 276M

Transmitter can pass existing embedded audio or insert audio on a pair by pair basis

Compatible with FiberLink 3380 for conversion between digital and analog audio.

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

Receiver features a re-clocked SDI output

Designed for fiber optic interoperability with other SMPTE 297-2006 fiber optic compliant devices up to 2.97 Gbps

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

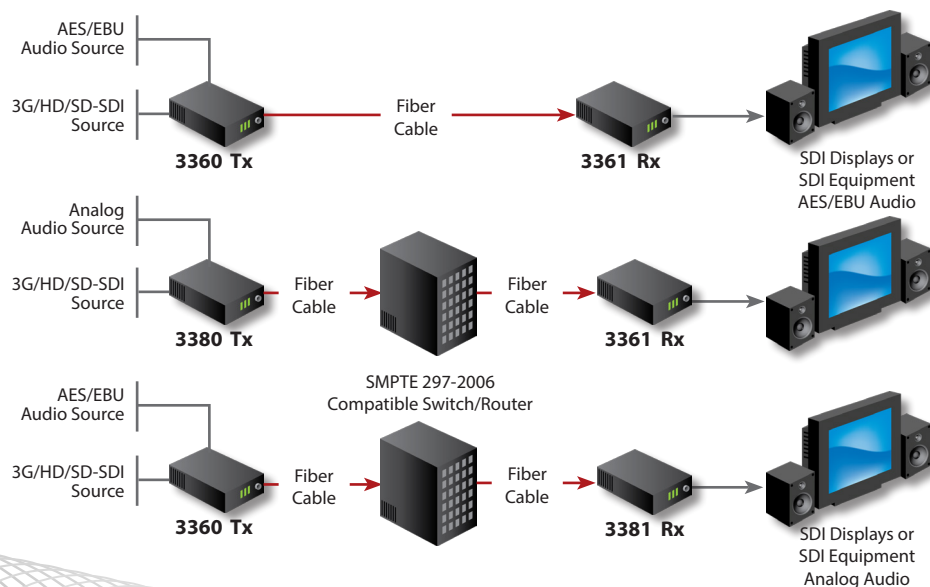
Compliant with SMPTE 259M-2006, 292-2006, 424M-2006, 297-2006, 276M

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

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

14 dB Optical Link Budget @ 2.97 Gbps

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



SPECIFICATIONS

FiberLink 3360 General Specifications

Indicators	Power, Data Rate lock (3G, HD, SD) Alarm (card version only)
Box Version Dimensions	6.5 W x 1.15 H x 8 L (inches) 165 W x 29 H x 203 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots in 6000A Card Cage	2
Power	9-24 volts, AC or DC, 3360: 8 watts, 27.30 BTU/Hr 3361: 2.5 watts, 8.53 BTU/Hr
Operating Temperature	-10° C to +50° C

FiberLink 3360 Transmitter: Serial Video BNC Input

Number of Inputs	1
Data Rate Range	270 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 424M-2006
Re-clocked Data Rates	270 Mbps (SMPTE 259M), 1.485 Gbps (SMPTE 292), 2.97 Gbps (SMPTE 424M-2006)
Equalization	Automatic up to 100m of Belden 1694A at 3.0 Gbps, 200m at 1.485 Gbps and 350m at 270 Mbps
Return Loss	>10dB up to 2.97 Gbps

FiberLink 3360 Transmitter: Optical Output

SMPTE 297-2006 Labeling	L-PC-ABCD-1310
Connector	LC receptacle, PC polish or ST
Wavelength	1310nm (nominal)
Emitter Type	FP Laser
Output Power (nominal)	-3.5 dBm at 270 Mbps; -3.5 dBm at 1.485 Gbps; -3.5 dBm at 2.97 Gbps
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

FiberLink 3360 Transmitter: Audio Specifications

Unbalanced, 75 ohms, BNC per AES3id and SMPTE 276M	
Channels	8 (4pairs)
Embedding	Selectable per pair
Sample Rate Conversion (SRC)	32-96 kHz input range converted to 48 kHz
SDI pre-embedded audio	All channels supported for pass through. Pairs 1 to 4 may be stripped selectable for each pair

FiberLink 3361 Receiver: Fiber Optic Input

SMPTE 297-2006 Labeling	PC-ABCD-1310-1550
Connector	LC receptacle, PC polish 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	0 dBm

FiberLink 3361 Receiver: Serial Video BNC Out

Number of Outputs	1
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 3361 Receiver: Audio Specifications

Unbalanced, 75 ohms, BNC per AES3id and SMPTE 276M	
Channels	8 (4pairs)
Output mute	Each audio output pair may be muted on a selectable basis

Operating Loss Budget and Maximum Usable Distance*

Fiber Type	Loss(dB)	Data Rate	Distance
Single Mode	0-14	2.97 Gbps	30 km
	0-17	1.485 Gbps	48 km
	0-20	270 Mbps	50 km
Multimode (62.5u)	0-14	2.97 Gbps	.8 km
	0-17	1.485 Gbps	1 km
	0-20	270 Mbps	2.5 km
Multimode (50u)	0-14	2.97 Gbps	1 km
	0-17	1.485 Gbps	1.3 km
	0-20	270 Mbps	3 km

*Distance specifications are approximate, based upon connecting a 3360 Transmitter to a 3361 Receiver, and are not guaranteed. Artel cannot estimate or guarantee operating loss budgets when the 3360 Series is used with other, non-FiberLink devices. Operating loss budget must not be exceeded.



Schedule
Contract GS-03F-016CA

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All specifications subject to change without notice. ©2016

Ordering Information

Part Number	Description	Fiber Cores
3360-x7z	Transmitter	1
3361-x7z	Receiver	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
z:	L LC Connector	ST Connector

Sales

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