



FiberLink® 3370 3G/HD/SD-SDI & Data Series



Broadcast quality 3G/HD/SD-SDI & up to 2 channels of RS-Type Data plus 10/100 Base-T Ethernet over one single mode fiber!

The FiberLink 3370 Series allows you to transmit 3G, HD or SD-SDI as per SMPTE 424M-2006, 292 and 259 with the ability to transmit 10/100 Base-T Ethernet and two channels of RS-Type data over one single mode fiber. All data channels are available simultaneously and convenient switches on the 3370 Series transmitter allow the operator to configure each of the two pairs of data independently.

Data signals are not required to operate the FiberLink 3370 link and it can be used as a stand-alone 3G/HD/SD-SDI optical link. Previously serialized audio that is present SDI stream is left intact throughout the entire transmission process. The 3370 Series is immune to pathological signals over the entire budget link and operating temperature range.

FEATURES

3370 3G/HD/SD-SDI & 2 Channels of RS-Type Data plus 10/100 Ethernet

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

Transmit up to 2 channels of bi-directional RS-Type data.

Transmit 10/100 Base-T Ethernet

All data and ethernet channels available simultaneously

SDI signal is equalized and re-clocked prior to fiber optic transmission

Receiver features a re-clocked SDI output

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

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

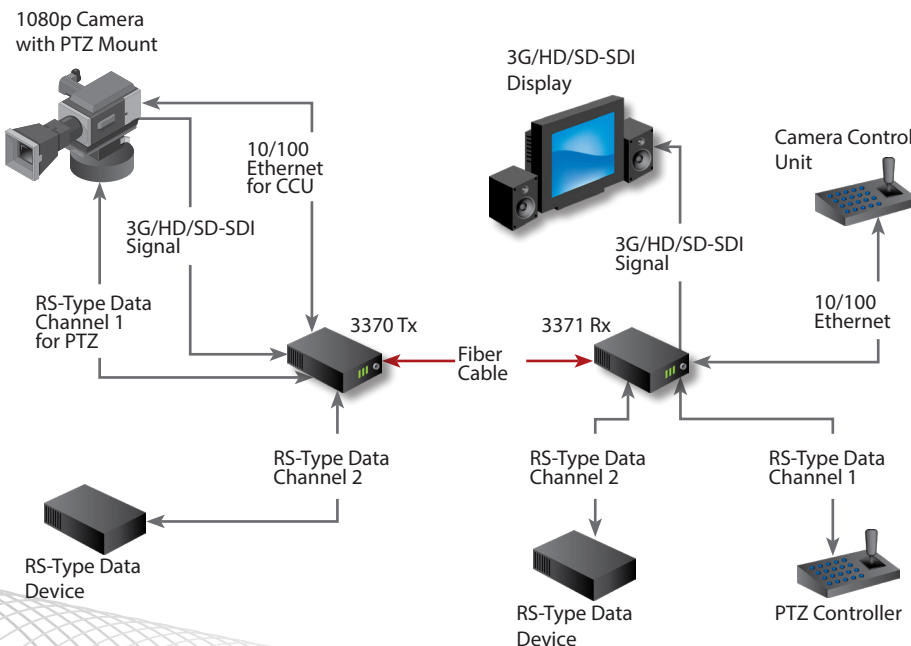
Supports one single mode fiber

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

14 dB Optical Link Budget @ 2.97 Gbps

Available in Box and Card versions

ST connectors



SPECIFICATIONS

General Specifications

Number of Fibers Required:	1 fiber for single mode fiber
Indicators:	Power, Data Rate lock (3G, HD, SD), Alarm (card version only), RS-Data Channel 1, RS-Data Channel 2 & Ethernet LEDs on RJ-45 Connector
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 3370: 4.8 watts, 16.4 BTU/Hr 3371: 4.65 watt s, 15.87 BTU/Hr
Operating Temperature:	-10° C to +50° C
MTBF:	36,000 Hours

Ethernet Specifications

Port:	10/100 Base-T, RJ-45 connector, Configured as MDI
Speed:	10 Mbps & 100 Mbps Ethernet, Switch Selectable

Data Specifications

Data Channels	2 Channels, Bi-Directional
Data Bandwidth	DC to 115 Kb/sec, max.
Control Format	Switch selectable RS-232, RS-422 & RS-485 (4 wire or 2 wire);
Protocols	NRZ, NRZI, RZ, Manchester, Bi-phase
Signal Connectors:	Removable terminal block

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

*Distance specifications are approximate, based upon connecting a 3370 Transmitter to a 3371 Receiver, and are not guaranteed. Artel cannot estimate or guarantee operating loss budgets when the 3370 Series is used with other, non-FiberLink devices. Operating loss budget must not be exceeded.

FiberLink 3370 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 3370 Transmitter: Optical Output

Connector	ST
Wavelengths Used	1310nm, 1490nm, 1550nm
Emmitter Type	FP Laser
Output Power (nominal)	-4.5 dBm
SDI Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps

FiberLink 3371 Receiver: 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	0 dBm

FiberLink 3371 Receiver: Serial Video BNC Output

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 with color bar signal
Re-clocking	At 270 Mbps, 1.485 Gbps & 2.97 Gbps



UPDATED 11/04/2017

All specifications subject to change without notice. ©2017



Schedule
Contract GS-03F-016CA

Ordering Information

Part Number	Description	Fiber Cores
3370-x7S	Transmitter	1 (SM)
3371-x7S	Receiver	1 (SM)
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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