

PRELIMINARY SPECIFICATIONS - SUBJECT TO CHANGE



3380 3G/HD/SD-SDI & 2 Pairs of Analog Audio Series

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

Ideal Applications:

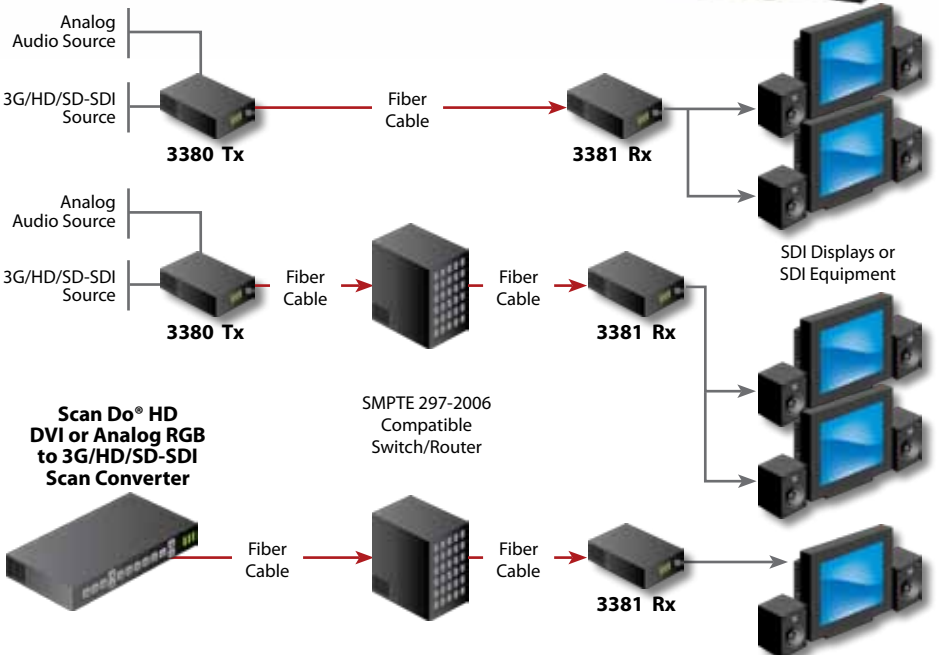
Broadcast or corporate studios, OB Vans, Rental & Staging, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, surgical or medical imaging and more!



Signal	Channels	Direction
3G/HD/SD-SDI	1	→
Analog Audio	4 (2 Pairs)	→

Features

- Inserts up to 4 channels (2 pairs) of Analog Line Level audio
- Balanced and unbalanced audio support
- Transmitter can pass existing embedded audio or insert audio on a pair by pair basis
- 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
- Available in Box and Card versions



Ordering Information

Part Number	Description	Fiber Cores
3380-x7z	Transmitter	1
3381-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 **z:** L LC Connector
 C Card Version S ST Connector

Sales

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Fiberlink® 3380 Series 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
Number of slots in 6000A Card Cage	2
Power	9-24 volts, AC or DC,
Operating Temperature	-10° C to +50° C

Fiberlink® 3380 Series Audio Specifications

Number of Audio Channels	4, balanced or unbalanced
Embedding	Selectable by pair
SDI Pre-Embedded Audio	All channels supported for pass-through Pairs 1 and 2 may be stripped and selectable for each pair
Frequency Response	20 Hz - 20 kHz, +0/-0.5 dB
Bits-per-Sample/Sampling Rate	24 bits; 96 kHz
Maximum Audio Level	+24 dBu
SNR (A-Weighted)	95 dB
THD+N	0.002%, 20 Hz - 20 kHz
Channel Phase Differential	±0.1°
Crosstalk	Min. 95 dB (1 kHz)
Input Impedance	600 Ohms terminated; >24 k Ohms unterminated
Output Impedance	50 Ohms
Audio Connectors	Removable screw terminal
Switches	Dip switches to select input termination, balanced or unbalanced input/output. Selectable on a per-channel basis



3380 3G/HD/SD-SDI & 2 Pairs of Analog Audio Series

Fiberlink® 3380 Transmitter



Front Panel LEDs quickly reveal the 3380's Video & Audio input status

Dip Switches allow for quick configuration of your audio embedding preferences

Front Panel Audio LEDs quickly reveal which pairs have audio present

The 3381 Receiver allows you to choose which audio pairs to de-embed or mute



Fiberlink® 3381 Receiver

The Fiberlink® 3380 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Operating Loss Budget & 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 3380 Transmitter to a 3381 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3380 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

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**3380 3G/HD/SD-SDI & 2 Pairs of
Analog Audio Series**

**Smart & Simple 3G/HD/SD-SDI
Signal Routing with
Fiberlink Matrix**

Fiberlink®
3380 Transmitter



Fiberlink® Matrix
32x32 Optical Matrix



Fiberlink®
3381 Receiver



Fiberlink®
3381 Receiver



Fiberlink®
3381 Receiver

**Learn more about the
Fiberlink® Matrix
at commspecial.com**

Fiberlink® 3380 Transmitter Specifications

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 494M)
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

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 (<i>nominal</i>)	-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® 3381 Receiver Specifications

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; -22 dBm at 1.485 Gbps -24 dBm at 270 Mbps;
Maximum Input Power	0 dBm

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; < 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

Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix



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Schedule Contract GS-03F-5063C



Learn more about the industry's largest selection of fiber optic transmission products at commspecial.com

Fiberlink 3350 3G/HD/SD-SDI Series

SMPTE compliant 3G/HD/SD-SDI over one single mode or multimode fiber optic core



Backed by a 30-day satisfaction guarantee and a three-year limited warranty on parts and labor. See website for terms and conditions.

Scan Do® HD

Computer Video to 3G/HD/SD-SDI Scan Converter



Sales



CSI Communications Specialties, Inc.

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