

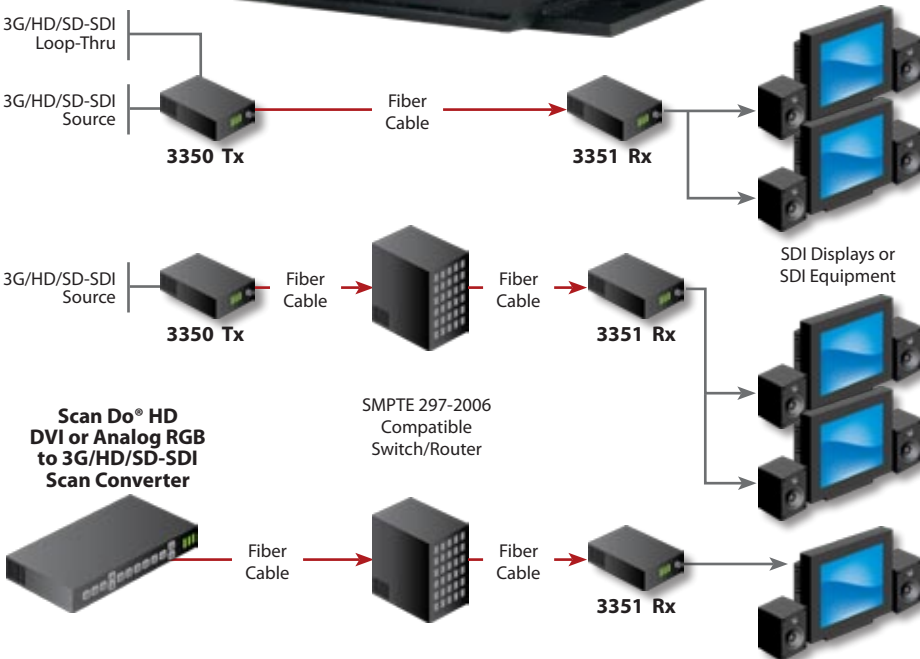


3350 3G/HD/SD-SDI Series

Broadcast quality 3G/HD/SD-SDI Transmission over one single mode or multimode fiber with full SMPTE compliance & embedded audio & data signal support.

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	→

Features

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

Transmitter features a re-clocked SDI loop through

Receiver features two re-clocked SDI outputs

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

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

14 dB Optical Link Budget @ 2.97 Gbps

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

Available in Box and Card versions

Card version compatible with the Fiberlink® 6000A Rack Card Cage

Designed and Manufactured in the USA by CSI

Ordering Information

Part Number	Description	Fiber Cores
3350-x7z	Transmitter	1
3351-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



CSI Communications Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

3350 3G/HD/SD-SDI Series

Fiberlink® 3350 Transmitter Specifications

Serial Video BNC Input

Number of Inputs	1
Data Rate Range	19.4 Mbps to 2.97 Gbps
Supported Standards	SMPTE 259M, 292, 297-2006, 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 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

Serial Video BNC Loop-Through Output

Number of Loop-Throughs	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

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®
3350 Transmitter**



The 3350 Transmitter provides a convenient re-clocked and equalized 3G/HD/SD-SDI Loop-Through!

Universal Power Supply makes the 3350 Series compatible with any region!

Compact enclosure makes installation in tight or prohibitive spaces a snap!

The 3351 Receiver delivers pristine output with two re-clocked 3G/HD/SD-SDI outputs!

**Fiberlink®
3351 Receiver**



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

The Fiberlink® 3350 Series is available in a card version that is compatible with the Fiberlink® 6000A Rackmountable Card Cage.

Fiberlink® 3351 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; -20 dBm at 1.485 Gbps -23 dBm at 270 Mbps;
Maximum Input Power	0 dBm

Serial Video BNC Outputs

Number of Outputs	2
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

Fiberlink® 3350 Series General Specifications

Indicators	Power, Data Rate lock (3G, HD, SD/DVB-ASI) Alarm (Card Version Only)
Box Version Dimensions	5.21 x 3.50 x 1.15 (in) 133 x 89 x 30 (mm)
Weight	6.9 ounces, 196 grams
Number of slots in 6000A Card Cage	1
Power	9-24 volts, AC or DC, 3350: 1.6 watts; 3351: 1.4 watts
Operating Temperature	-10° C to +50° C



3350 3G/HD/SD-SDI Series

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

Fiberlink®
3350 Transmitter



Fiberlink® Matrix
32x32 Optical Matrix



Fiberlink®
3351 Receiver



Fiberlink®
3351 Receiver



Fiberlink®
3351 Receiver

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

Learn more about the
Fiberlink® Matrix
at commspecial.com

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 3350 Transmitter to a 3351 Receiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3350 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.



3350 3G/HD/SD-SDI Series



Schedule
Contract GS-03F-5063C



Other 3G-SDI Products

Fiberlink Matrix

Fully configurable 32x32 Optical Matrix



Fiberlink 3360 3G/HD/SD-SDI & 4 Pairs of AES/EBU Digital Audio Series

SMPT E compliant 3G/HD/SD-SDI with 4 Pairs (8 Channels) of AES/EBU Digital Audio Embedding over one fiber



Scan Do® HD

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



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



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

Sales



Communications
Specialties, Inc.

631-273-0404 | commspecial.com
info@commspecial.com

UPDATED 4/7/2009

All specifications subject to change without notice. ©2009

Fiberlink, the starburst logo and Scan Do are registered trademarks of Communications Specialties, Inc. CSI and the triangle designs are trademarks of Communications Specialties, Inc.

