

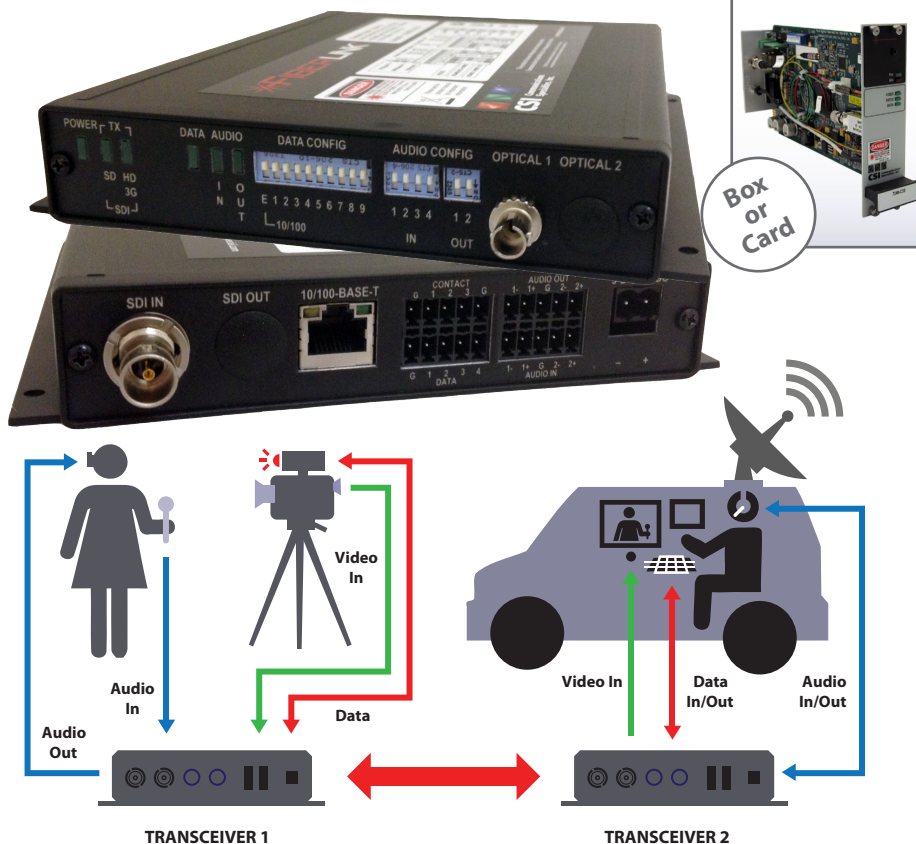


3390 3G/HD/SD-SDI Series

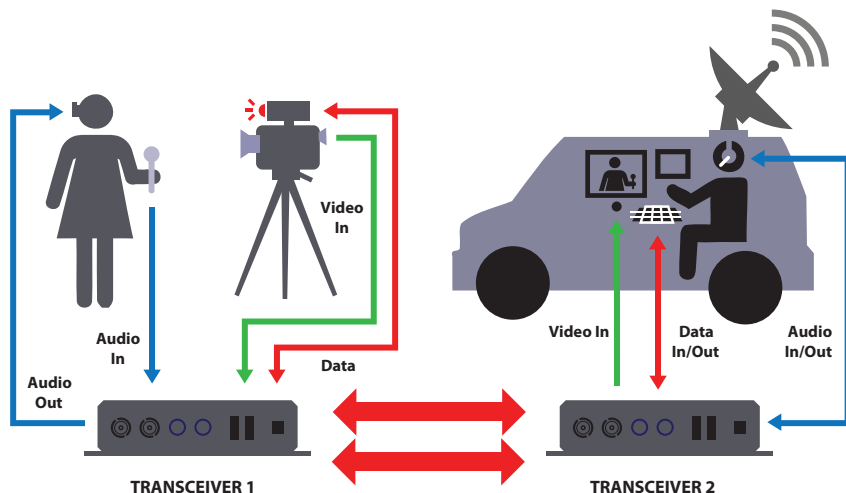
Broadcast quality 3G/HD/SD-SDI with two-way audio, data, Ethernet, and contact closure over one or two fibers in a compact box!

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!



One-Way SDI with Bi-Directional Audio, Data, Ethernet, & Contact Closure on One Fiber



One Way SDI with Bi-Directional Audio, Data, Ethernet, & Contact Closure on Two Fibers

| Signal | Channels | Direction |
|-----------------|----------|-----------|
| 3G/HD/SD-SDI | 1 | → |
| Audio | 2 | ↔ |
| RS-Type Data | 1 | ↔ |
| 10/100 Ethernet | 1 | ↔ |
| Contact Closure | 1 | ↔ |

Features

3G/HD/SD-SDI signal transmission with two-way audio, data, 10/100Base-T Ethernet and contact closure.

One-fiber and two-fiber versions for single mode and multimode fiber types.

All channels are independent and available simultaneously.

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

SDI output is re-clocked after optical reception.

ASI signals also supported.

Compliant with all applicable SMPTE standards.

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

Available in Box and Card versions.

ST or LC connectors available.

Sales



CSI Communications Specialties, Inc.

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

Fiberlink® 3390 Series General Specifications

General Specifications:

| | |
|----------------------------|---|
| Number of Fibers Required: | |
| 3390/3391: | 1 |
| 3392/3393: | 2 |
| Indicators: | Power, 3G/HD/SD data rate, Audio activity, RS-Data Activity Ethernet LEDs on RJ-45 Connector 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 3390/91: 7.5 watts, 25.6 BTU/Hr 3392/93: 7.5 watts, 25.6 BTU/Hr |
| Operating Temperature: | -10° C to +50° C |
| MTBF: | 27,000 Hours |

Serial Video BNC Input

| | |
|-----------------------|---|
| Number of Inputs | 1 |
| Data Rate Range | 19.4 Mbps to 2.97 Gbps |
| Supported Standards | SMPTE 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, 200m at 1.485 Gbps and 350m at 270 Mbps |
| Return Loss | >10dB up to 2.97 Gbps |

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 |



**3390 3G/HD/SD-SDI with audio, Data,
10/100 Ethernet, contact closure.**

Fiberlink® 3390 Transceiver



Front Panel LEDs quickly
reveal the 3390's
Video & Data
input status

Dip Switches allow for
quick configuration of
your data preferences

The 3391 Receiver Data
LEDs quickly reveal which
channels have data
present

Available as a box
or a card



Fiberlink® 3391 Transceiver

**The Fiberlink®
3390 Series is available in a
card version that is compatible
with the Fiberlink® 6000A
Rackmountable Card Cage.**

Audio Specifications

| | |
|------------------------------------|--|
| Number of Audio Channels | 2, balanced or unbalanced, bi-directional |
| Bits per sample/ Sampling Rate | 24 bits, 78 kHz |
| Audio Connector | Removable terminal block |
| Switches | <ul style="list-style-type: none"> Select input termination Balanced or unbalanced input/output, selectable on a per-channel basis |
| Frequency Response | +0/-0.5 dB, 20 Hz - 20 kHz |
| Maximum Audio Level | +10 dBu |
| Signal-to-Noise Ratio (A-weighted) | 95 dB referenced full scale (balanced) |
| THD | 0.002%, 20Hz - 20 kHz, full scale |
| Channel Phase Differential | $\pm 0.1^\circ$ |
| Crosstalk | -100 dB (1 kHz) |
| Audio Noise Level | -85 dBm |
| System Gain | Unity Gain, $\pm 3\%$, input: balanced 600 ohms, 50 ohms source impedance; output: balanced into 600 ohms. |
| Input Impedance | 600 Ohms terminated, >24K ohms unterminated |
| Output Impedance | 50 Ohms nominal |
| Audio to Video Diff. Delay (skew) | <300 usec |

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 | 1 Channel, 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 |

Contact Closure Specifications

| | |
|----------------------------|---|
| Contact Closure Input | Dry contact or TTL level referenced to GND |
| Contact Closure Output | Isolated reed relay contacts; 115 Volts AC; 50/60 Hz @ 0.2 A or 24 Volts DC @ 1 A |
| Contact Closure Connectors | Removeable terminal block |



3390 3G/HD/SD-SDI with audio, Data, 10/100 Ethernet, contact closure.

Accessories



Fiberlink® 6656 Visible Light Source

The Fiberlink 6656 is a light-weight, hand-held tool used to quickly troubleshoot faults in the continuity of both single-mode and multimode fibers. High-intensity visible laser allows for visible fault location of breaks and microbends in both single-mode and multimode fibers



Fiberlink® 6650 Optical Power Meter

The Fiberlink 6650 Optical Power Meter is a high accuracy, high resolution, microprocessor controlled optical power meter. 65 dB dynamic range; calibrated to measure 850, 1300, 1310 and 1550nm. Works with multi-mode and single mode fiber. Graphical LCD display with intuitive user interface with simple 2-key operation.



Fiberlink® 6652/6654 Light Sources

The Fiberlink® Light Source offers a laser output at selectable wavelengths, allowing for convenient, on-site testing of fiber networks during construction and maintenance procedures.



Fiberlink® 6658

The Fiberlink® Optical Length Meter Measures the length of both single mode and multimode fiber with accuracy of ± 2.5 meters. Generates a pulsed signal for use with fiber identifiers. Easy-to-read bright red 7-segment LED display. Comes equipped with industry preferred ST connectors.

Fiber Optic Output

| | |
|---------------------------------|-------------------------------------|
| Connector | LC or ST |
| Wavelengths Used 2-Fibers: | 1310nm, 1490nm, 1550nm |
| Wavelengths Used 1-Fiber: | 1510nm, 1530nm, 1550nm, 1570nm |
| Emitter Type | Laser |
| Output Power (<i>nominal</i>) | -3.0 dBm |
| SDI Re-clocking | At 270 Mbps, 1.485 Gbps & 2.97 Gbps |

Fiber Optic Input

| | |
|---------------------------|--|
| Connector | LC or ST |
| Wavelength | 1100 - 1620 nm |
| Minimum Input Sensitivity | -17 dBm at 2.97 Gbps -19 dBm at 1.485 Gbps -19 dBm at 270 Mbps |
| Maximum Input Power | 0 dBm |

Operating Loss Budget & Maximum Usable Distance*

| Fiber Type | Loss(dB) | Data Rate | Distance |
|-------------------|----------|------------|----------|
| Single Mode | 0-14 | 2.97 Gbps | 30 km |
| | 0-16 | 1.485 Gbps | 40 km |
| | 0-16 | 270 Mbps | 40 km |
| Multimode (62.5u) | 0-14 | 2.97 Gbps | 0.8 km |
| | 0-16 | 1.485 Gbps | 1 km |
| | 0-16 | 270 Mbps | 2.5 km |
| Multimode (50u) | 0-14 | 2.97 Gbps | 1 km |
| | 0-16 | 1.485 Gbps | 1.3 km |
| | 0-16 | 270 Mbps | 3 km |

*Distance specifications are approximate, based upon connecting a 3390 Transceiver to a 3391 Transceiver, and are not guaranteed. CSI cannot estimate or guarantee operating loss budgets when the 3390 Series is used with other, non-Fiberlink devices. Operating loss budget must not be exceeded.

Ordering Information

| Part Number | Description | Fiber Cores |
|-------------|--------------|-------------|
| 3390-xyz | Transmitter | 1 |
| 3391-xyz | Receiver | 1 |
| 3392-xyz | Transmitter | 2 |
| 3393-xyz | Receiver | 2 |
| PDPS-1-pp | Power Supply | |

Part Number Suffix Codes:

| | | | | | |
|-------------|--------------|-------------|-------------|-------------|--------------|
| x: B | Box Version | y: 3 | Multimode | z: L | LC Connector |
| C | Card Version | 7 | Single Mode | S | ST Connector |

Power Supply Suffix Codes (pp) for AC Line Cord:

| | | |
|--------------------|---------------------|-------------|
| NA - North America | AU - Australia | EU - Europe |
| JP - Japan | UK - United Kingdom | |



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Schedule
Contract GS-03F-5063C

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See website for terms and conditions.

Sales



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