



# FIBERLINK®

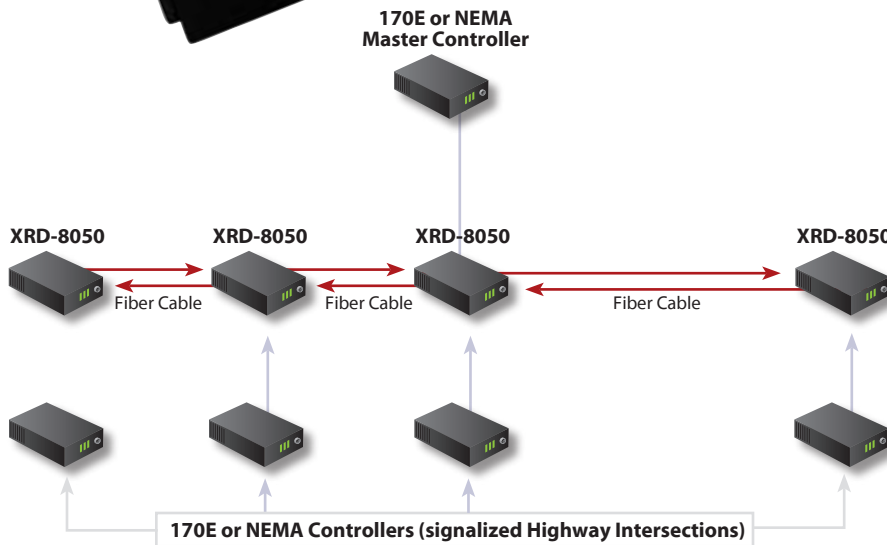
Designed & Manufactured by  
CSI New York

## XRD-8050

Fiber optic data transmission for CALTRANS 170 or 179 series and NEMA traffic signal controller applications

### Ideal Applications:

Intelligent Transportation, Traffic and Control



| Signal         | Channels | Direction |
|----------------|----------|-----------|
| CALTRANS /NEMA | Dual     | ↔         |

### Features

Implements a fiber optic master/local data bus for traffic signal controller networks

Works with CALTRANS 170-Series, CALTRANS 179-Series and NEMA controllers

Each transceiver, plus power supply, must be purchased separately

Units are "daisy-chained" in a linear multi-drop configuration

User-adjustable anti-streaming time-out feature

12-hour internal battery back-up

Meets CALTRANS and NEMA traffic signal control equipment environmental requirements

### Ordering Information

| Part Number | Description                            | Number of Fibers |
|-------------|--|------------------|
| XRD-8050-1  | Transmitter Box, 850 nm, Multimode     | 4                |
| XRD-8050-3  | Transmitter Box, 1310 nm, Multimode    | 4                |
| XRD-8050-7  | Transmitter Box, 1310 nm, Single Mode  | 4                |
| XP-1000AW   | 115 volts AC, 50/60 Hz plug-in adaptor |                  |
| XP-1001W    | 230 volts AC, 50/60 Hz plug-in adaptor |                  |

### Sales



**Communications  
Specialties, Inc.**

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## Data Specifications

|                               |                         |
|-------------------------------|-------------------------|
| Number of Channels            | 1                       |
| Number of Outputs per Channel | 2                       |
| System Protocol:              | RS-232                  |
| Control Signals:              | RTS, CTS, DTR, DCD, DSR |
| Transmission Format           | Asynchronous            |
| System Bandwidth              | 0-150 Kb/sec            |
| Signal Connectors             | DB-25S                  |

## General Specifications

|                            |   |
|----------------------------|---|
| Number of Fibers           | 4   |
| Operating Temperature      | -37 to +74°C ambient  |
| Operating Power (per unit) | +12 to +18 volts DC or AC<br>@ 300 mA max. provided by external<br>power source |
| Dimensions                 | 7 W x 5 H x 2 L (inches)<br>128 W x 127 H x 51 L (mm)                           |
| Weight                     | approx. 1 lb.; 0.45 kg  |
| Optical Connectors         | ST: multimode; FCPC: single mode  |
| Optical Wavelength         | 850 or 1310 nm  |
| Optical Fiber              | 50 or 62.5 micron multimode fiber<br>8/10 micron single mode fiber              |
| Indicator LEDs             | Anti-streaming, TD1, RD1, TD2, RD2,<br>power                                    |
| Shock                      | Per military specification<br>MIL-STD-810D, Method 514.1,<br>equipment class G  |

## About CSI

Communications Specialties, Inc. (CSI) is an award-winning manufacturer of Pro A/V products for the distribution, conversion or transmission of television and computer video signals, including fiber optic transmission systems, scan converters and video scalars. The company was founded in 1983 by veterans of the broadcast industry. Since then, CSI has managed to consistently design innovative products that are used worldwide by Fortune 500 Companies in a variety of markets such as Broadcast/Professional A/V, Video Conferencing, Education, Home Theater, Security, ITS, Industrial Monitoring, and more!

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**GSA** Schedule  
Contract GS-03F-5063C

## Operating Loss Budget & Maximum Usable Distance\*

| Fiber Type  | Loss(dB) |
|-------------|----------|
| 50 micron   | 0-12     |
| 62.5 micron | 0-15     |
| 8/10 micron | 0-17     |

For system to operate properly, operating loss budget must not be exceeded.

## Want to learn more about fiber?

Log on to [commspecial.com](http://commspecial.com)  
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for Pro A/V Professionals by  
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## Sales



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