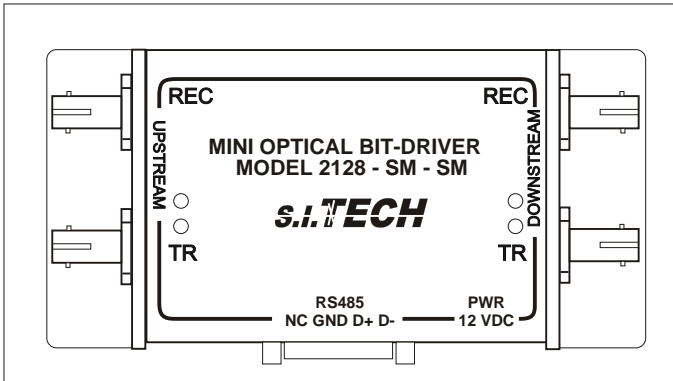


# Optical Mini Multidrop Bit-Driver



**Features:**

- RS-485 Multidrop
- Various speed options up to 200 Kbps
- Flange Mounting
- Multimode or single mode
- Asynchronous, simplex, half, full duplex

Fiber ports repeat data through the 2128 and drop/insert data on the RS-485 port. The RS-485 port inserts data onto both fiber ports and gets data dropped from either fiber port.

- Operation Mode:** Asynchronous half duplex
- Input/Output Interface:** RS-485, 2 wire port operating up to 200 Kbps or DB-9 Connector
- Transmission Line Interface:** ST connectors are standard for interfacing with fiber optic duplex cable (SMA option)
- Optical Power into a 62.5 Micron Core Optical Fiber:** 10 microwatts, 13 dB power budget @ 850 nanometers (1300 nm option)
- Receiver Sensitivity:** 500 nanowatts at less than  $10^{-9}$  bit error rate, 10 microwatts max.
- Operating Temperature:** 0 °C to 50 °C (-40 to +70 °C option-MM Fiber)
- Metal Enclosure:** 5.5 x 2.3 x 1.0 in (with flange) (13.97 x 5.84 x 2.54 cm) Panel or DIN rail mounting option
- Weight:** 0.4 lbs (182 grams)
- Input Power:** External with power supply (S.I. Tech #2121 - 110 VAC to 12 VDC)
- 230 Volt Version:** Use S.I.Tech 2164 power supply

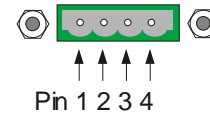
Meets FCC requirements of Class A, Part 15 Computing Devices Standard.  
Specifications subject to change without notice.



**RS - 485 CONNECTOR**

| Pin No. | Description |
|---------|-------------|
| 1       | NC          |
| 2       | Ground      |
| 3       | Data +      |
| 4       | Data -      |

**RS - 485 CONNECTOR**



**DB-9 OPTION**

- DB-9 Pinout  
3 - Data+  
9 - Data-  
1 & 5 - Ground

**OPERATING DISTANCE FOR FIBER OPTIC CABLE**

| Fiber Size (Microns) | Attenuation dB/Km | Distance Meters* | Distance Feet* |
|----------------------|-------------------|------------------|----------------|
| 50                   | 3.0               | 2000             | 6600           |
| 62.5                 | 4.0               | 2000             | 6600           |
| 10 SM                | 1.0               | 10000            | 33000          |

\* High power option available  
SM - Single Mode (1300nm) option (Temp -20 to +60 °C)

**ORDERING INFORMATION**

| Model Number | Description                               |
|--------------|---|
| 2128         | Multimode to Multimode, ST Connectors     |
| 2128-MM-SM   | Multimode to Single Mode, ST Connectors   |
| 2128-SM-SM   | Single Mode to Single Mode, ST Connectors |

**TYPICAL APPLICATION**

