

# Optical Ruggedized Asynchronous Mini Bit - Driver<sup>®</sup>



## FEATURES

- 0.3 to 115.0 Kbps asynchronous operation on fiber optic cable simplex or duplex operation
- Distance capability (See chart)
- -40 °C to +85 °C operating range (-20 to +60 °C SM)
- ST connector receptacle (SMA option)
- DTE or DCE switch selectable (See table below)
- Direct or Loop mode switch selectable (See typical application drawing)
- Status indicator LEDs: RS-232, Tx & Rx for fiber
- Universal power option 85 to 260 VAC/DC

- Operation Mode:** Asynchronous, simplex or full duplex
- Input/Output Interface:** RS-232-C, DB-9 female  
Asynchronous 0.3 to 115 Kbps
- Transmission Line Interface:** ST connector is standard for interfacing with fiber optic duplex cable (SMA option)
- Optical Power into a 50 Micron Core Optical fiber:** 30 microwatts, 10 dB power budget @ 850 nm (660 & 1300 nm option)
- Receiver Sensitivity:** 3 uw at less than 10<sup>-9</sup> bit error rate
- Operating Temperature:** -40 °C to +85 °C (-20 to +60 °C SM)
- Metal Enclosure:** 1.25" X 1.825" X 6.00"  
(3.17 X 4.76 X 15.24 cm)
- Input Power:** 10 - 32 VDC external source, S.I. Tech #2121 or 2164 (Universal power option)
- Weight:** 0.60 lbs. (270 grams)

RS-232 Connector Pins Utilized by 2617 Mini Bit-Driver (DB-9 FEMALE)

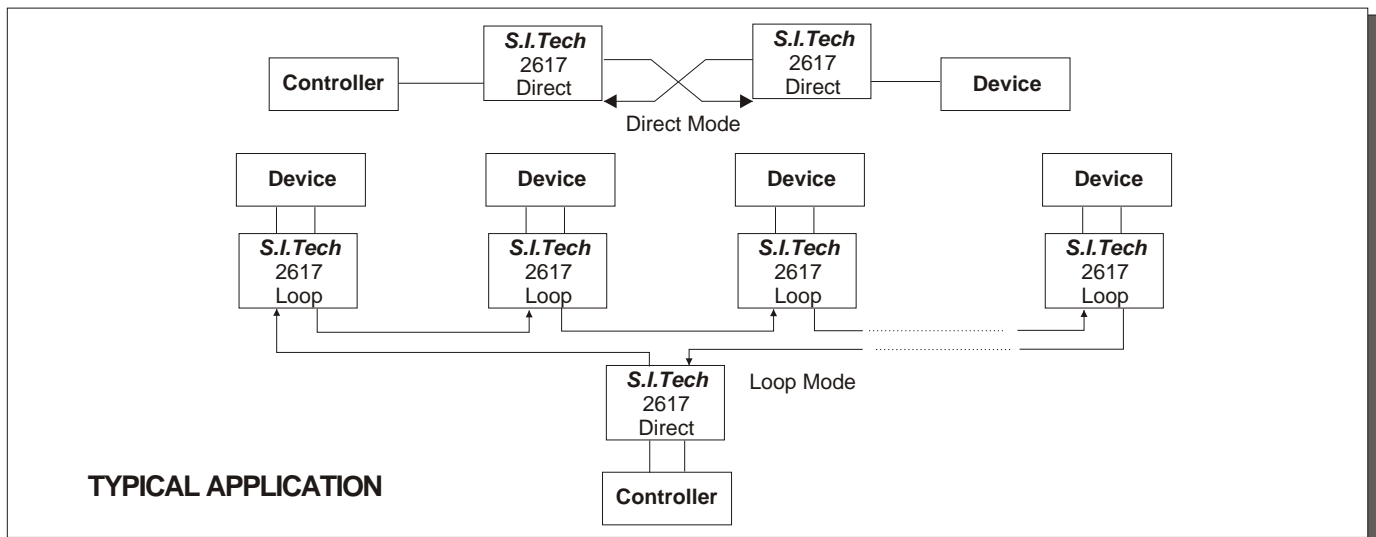
DB-9 (DCE)	DB-9 (DTE)	2617	Description	Symbol	Signal Direction
1	1	N/C			
2	3	Data out	Received Data	RD	From DCE
3	2	Data in	Transmitted Data	TD	To DCE
4	4	Loop to 6	Data Terminal Ready	DTR	To DCE
5	5	Signal GND.	Signal GND.	SG	Common
6	6	Loop to 4	Data Set Ready	DSR	From DCE
7	7	Loop to 8	Request to Send	RTS	To DCE
8	8	Loop to 7	Clear to Send	CTS	From DCE
9	9	N/C			

OPERATING DISTANCE FOR FIBER OPTIC CABLE

Fiber Size (Microns)	Attenuation dB/km	Distance Meters	Distance Feet
1000	200	100	330
50	3.0	3500	10000
62.5	4.0	5600	17000
10 SM	1.0	7000	23000

SM - Single mode (1300nm) option | 1000 Micron fiber with 660nm High Power Option (20dB)

UL listed. Meets FCC requirement of Class A, Part 15 Computing Devices Standard.



TYPICAL APPLICATION