

Optical Asynchronous/Synchronous Modem



Features:

- Full duplex Asynchronous/Synchronous 64 Kbps with control signals
- 6600 ft. (2Km) maximum distance capability
- 0 °C to + 50 °C operating range
- ST fiber receptacle
- RS232 Interface

RS - 232 CONNECTOR PINS UTILIZED BY 2036 BIT - DRIVER FEMALE (DCE)

Pin No.	Description	Symbol	DTE DCE
1	Protective Ground	Ground	←→
2	Transmitted Data	TXD	→
3	Received Data	RXD	←
4	Request to Send	RTS	→
5	Clear to Send	CTS	←
6	Data Set Ready	DSR	←
7	Signal Ground	Sig. Gnd.	←→
8	Data Carrier Detect	DCD	←
15	DCE Transmit Clock	TxClock	←
17	Receive Clock	Rx Clock	←
20	Data Terminal Ready	DTR	→
24	DTE Transmit Clock (Ext)	TXQ	→

- Operation Mode:** Asynchronous/Synchronous, full duplex with control signals
- Input/Output Interface:** RS-232-C
- Transmission Line Interface:** ST connector is standard for interfacing with fiber optic duplex cable (SMA option)
- Optical Power into a 62.5 Micron Core Optical Fiber:** 10 microwatts, 15 dB power budget @ 850 nanometers (1300nm option)
- Receiver Sensitivity:** 300 nanowatts at less than 10⁻⁹ bit error rate
- Operating Temperature:** 0 °C to 50 °C
- Weight:** 4.0 lb (1.8 kg)
- Metal Enclosure:** 7.5" X 7.0" X 3.0" (19 X 17.8 X 7.6 cm)
- Input Power:** 105 to 130 VAC, 50 to 500 Hz, 10 W
- 220 Volt Version:** Model 2036V

Function Switch Settings

0	External Clock, Sync Mode
1	64 kbps, Sync Mode
2	56 kbps, Sync Mode
3	38.4 kbps, Sync Mode
4-8	Unused
9	9.6 kbps, Sync Mode
10-13	Unused
14	Slave
15	Async Mode from 2.4 kbps to 64 kbps

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	7000	23000

* Single mode option

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

TYPICAL APPLICATION

