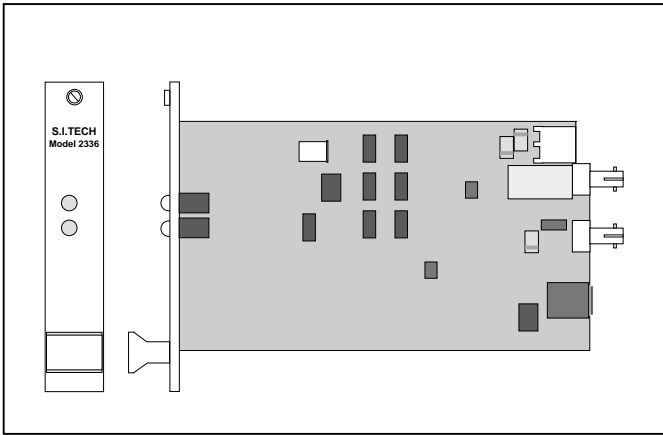


Twinax to Fiber Optic Bit-Driver[®] - IBM Systems 3/X & AS/400



The S.I.Tech Bit-Driver[®] is designed to work with IBM 3/X & AS/400 systems using twinax cable. Model 2836 Bit-Driver is a twinax to fiber optic transmitter/receiver full duplex product implementing IBM Protocol. Normal operating data rate is 1 Mbps.

This fiber optic Bit-Driver product eliminates many disadvantages of twinax, especially EMI/RFI, ground loops (electrical isolation with fiber), high attenuation (high signal loss), limiting distance between nodes of system (5000 feet max. twinax), and potential lightning damage outdoors between buildings.

S.I.Tech Model 2336 is a Eurocard product allowing easy change from twinax to fiber. Simply disconnect twinax and connect to model 2336 input/output port. Model 2336 is designed for use with series 3000 card cage.

- Operation Mode:** Synchronous, half or full duplex
1 Mbps, Serial Bi-phase data
- Input/Output Interface:** 100 ohm RJ-11 bulkhead jack,
- Transmission Line Interface:** 2 ST connector fiber optic receptacles (SMA option)
- Transmission Distance:** 6600 ft. (2 Km) (5 Km option)
- Transmitter Output power:** 30 microwatts into 50 micron fiber
- System Wavelength:** 820 nanometers (1300 nm option)
- Receiver Sensitivity:** 3 microwatts at less than 10^{-9} bit error rate
- Operating Temperature:** 0 °C to 50 °C
- Enclosure:** 19" Rack
- Card Size:** Eurocard 3.9" x 6.8" (9.9 X 7.3 cm)
- Weight:** 0.5 lb (200 grams)
- Input Power:** 110 or 230 VAC, 50/60 Hz into card cage power supply
- Stand Alone Version:** 2836

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**	1.0	7000	23000

* High power option available

** Single mode option (Maximum distance depends upon IBM timeout spec.)

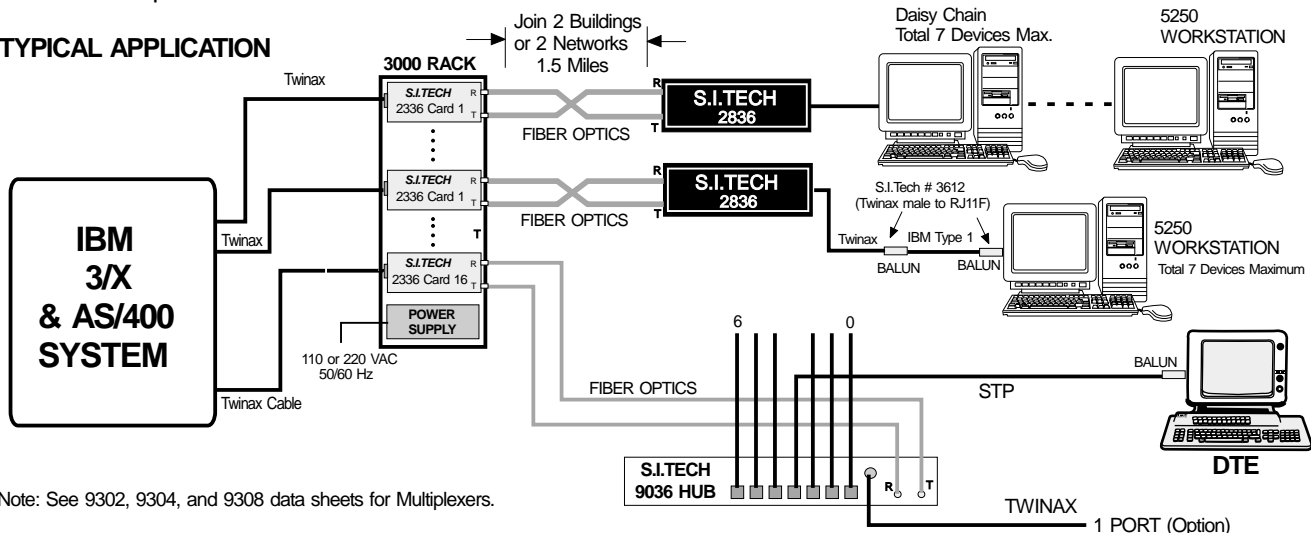
*Meets FCC requirements of Class A, Part 15 Computing Devices Standard.
Specifications subject to change without notice.*

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Optical Unit Connection: Connect the optical transmission line to the T and R receptacles. Note which cable channel goes to T or R by noting the cable imprint. On the other end, reverse the connections.

- IBM Specifications: Twinax 5000 ft. (1524 m) max; Local ports -7 devices max; Remote ports - 4 devices max; 5751 Cluster controller; 5251 remote terminal controller; 5294 and 5394 controllers.
- If other than twinax cable is used, impedance matching transformers (Balun) are needed.
- Some fiber types in short distance application may overload the receiver.

TYPICAL APPLICATION



Note: See 9302, 9304, and 9308 data sheets for Multiplexers.