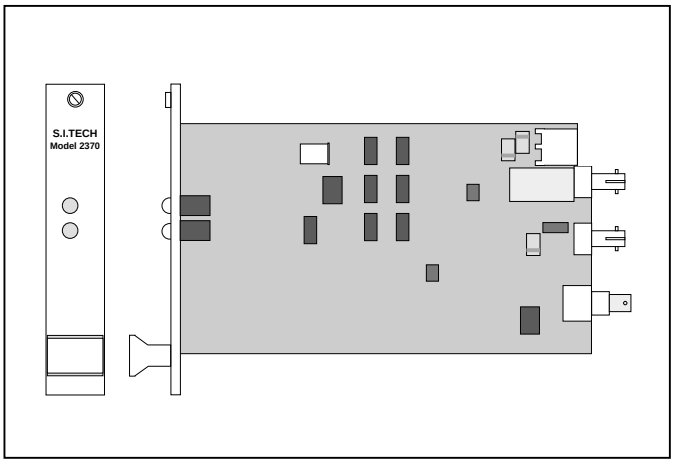
Model 2370

S.I.TECH

Coax to Fiber Optic Bit-Driver® Card



The S.I.Tech 2370 Bit-Driver® Card is designed to work with 93 ohm coaxial cable (RG 62/U type) used by IBM in SNA environment. It is ideally suited to replace coaxial cable between IBM 3274 and 3276 controllers and 3278 terminals. It can also be used between IBM 3299 multiplexer and a remote multiplexer. The normal operating data rate is 2.35 Mbps.

This fiber optic Bit-Driver product eliminates many disadvantages of coax, especially EMI/RFI, high attenuation (high signal loss), limiting distance between workstations (2000 feet coax), ground loops (electrical isolation with fiber), and weight.

S.I.Tech Model 2370 is a Eurocard product allowing easy change from coax to fiber. Simply disconnect the BNC connector and plug into the input/output port. It is fully compatible with the stand alone 2870 Bit-Driver®.

Note: SNA is IBM System Network Architecture.

Operation Mode: Synchronous, simplex or full duplex, 2.35 Mbps
Input/Output Interface: 93 ohm coaxial cable BNC bulkhead jack
Transmission Line Interface: 2 ST connector fiber optic receptacles(SMA option)
Transmission Distance: 6600 ft. (2.0 Km) (5 Km option)
Transmitter Output Power: 30 microwatts into 50 micron fiber
Wavelength: 820 nanometers (1300 nm option)
Receiver Wavelength: 820 nanometers (1300 nm option)
Receiver Sensitivity: 3 microwatts at less than 10^{-9} bit error rate
Operating Temperature: 0 ^{o}C to +50 ^{o}C
Enclosure: 19" Rack (Holds 16 cards)
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: 2870

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

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OPERATING DISTANCE FOR FIBER OPTIC CABLE

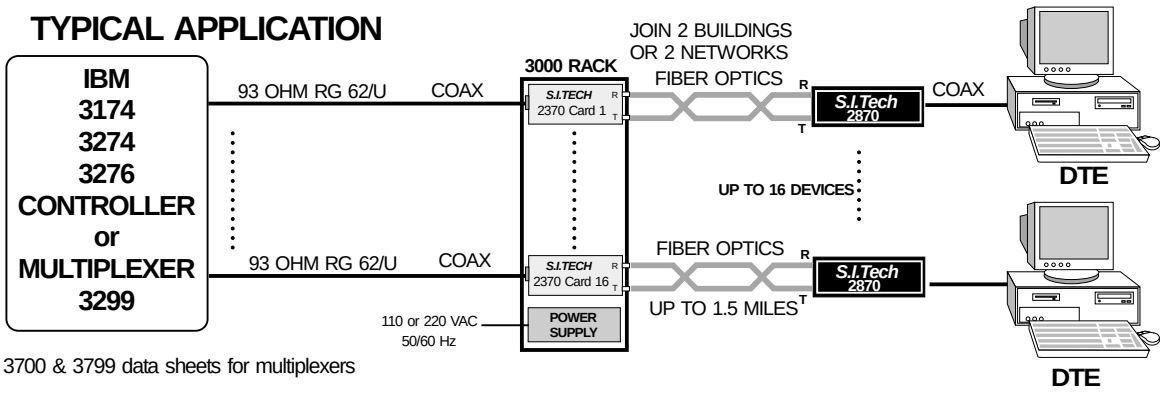
Fiber Size (Microns)	Attenuation dB/Km	Distance Meters	Distance Feet
50	3.0	2000	6600
62.5	4.0	2000	6600
10 SM*	1.0	7000	23000

*Single mode (1300nm) option
(Check Network Timing Restrictions)

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 cable imprint. On the other end, reverse the connection.

Notes: Some fiber types in short distance applications may overload the receiver.
If other than coax cable is used, use balun (impedance matching transformer).

TYPICAL APPLICATION



Note: See 3700 & 3799 data sheets for multiplexers

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