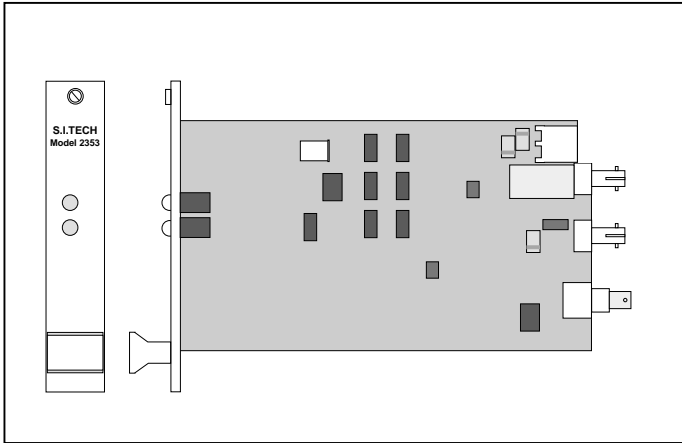


Arcnet to Fiber Optic Card



The S.I.Tech 2353 Bit-Driver[®] card is designed to work with coaxial cable "Arcnet". Model 2353 is a coax to fiber optic transmitter/receiver full duplex product implementing "Arcnet" networking scheme. The normal operating data rate is 2.5 Mbps.

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

S.I.Tech Model 2353 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 2853 stand alone Bit-Drivers[®].

Operation Mode: Asynchronous, simplex or full duplex, 2.5 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)

Minimum Sensitivity: 3 microwatts @ 820 nanometers

Bit Error Rate: 10⁻⁹

Operating Temperature: 0 °C to 50 °C

Enclosure: 19" rack (holds 16 cards)

Card Size: Eurocard 3.9" x 6.8" (9.9 x7.3 cm)

Weight: 0.5 lb. (200 grams)

Input Power: 110 or 230 VAC, 50/60 Hz

Stand Alone Version: 2853

OPERATING DISTANCE FOR FIBER OPTIC CABLE

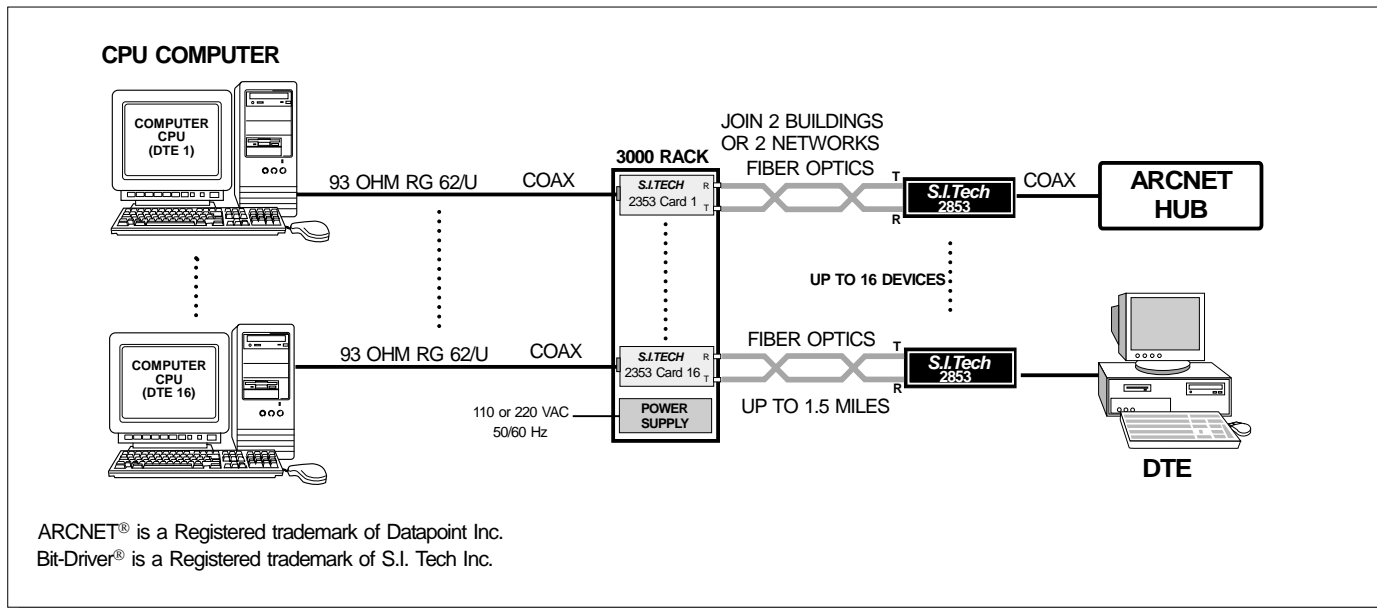
| Fiber Size (Microns) | Attenuation dB/Km | Distance Meters | Distance Feet |
|----------------------|-------------------|-----------------|---------------|
| 50 | 3.0 | 2000 | 6600 |
| 62.5 | 4.0 | 2000 | 6600 |
| 100 | 5.0 | 2000 | 6600 |
| 10 SM* | 1.0 | 7000 | 23000 |

*Single mode 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.

Note: Some fiber types in short distance applications may overload the receiver.

*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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