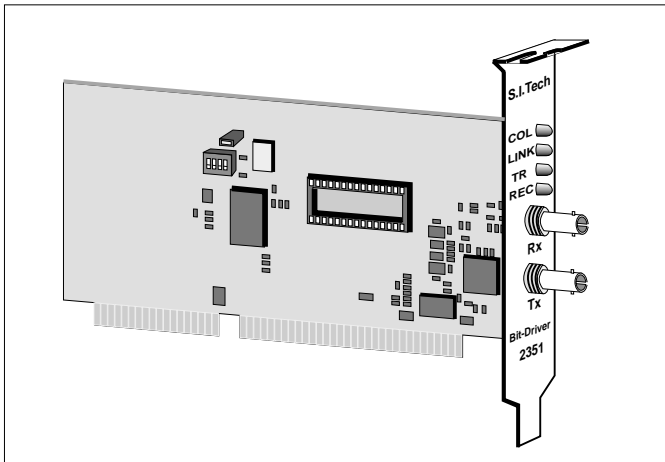


Ethernet Fiber Optic Bit - Driver[®]



Features:

- Low power consumption making it ideal for energy efficient systems
- Intel-Microsoft Plug 'n Play ISA compatibility SNMP compatible
- High performance Concurrent Processing early interrupt technology for increased network throughput
- LED status indicators for easy troubleshooting
- Flash upgrade for Flash Works manageability and Boot Room support
- Configuration utility auto senses IRQ setting, eliminating need to set jumpers or switches
- Multimode or singlemode option

S.I.Tech 2351 Ethernet to fiber Bit-Driver[®] is board level fiber optic communication product fully tested for compatibility with leading 16-Bit ISA bus computers including IBM AT's and compatibles, Providing complete compatibility to the widest variety of PC platforms though a proven buffered slave architecture, Desktop Management Interface (DMI) equipped drivers provide board client PC manageability.

The use of this board in a computer requires that a companion fiber optic transceiver (see fig. 1) be located at the termination end to any Ethernet medium, AUI, coax or twisted pair.

TRANSMISSION LINE INTERFACE

Operating distance is dependent upon optical fiber core diameter and the cables' optical attenuation. The table below indicates cables that may be used at any data rate. S.I.Tech offers complete links including fiber optic cable, connectors, cable assemblies, and Bit-Drivers[®].

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

* Single mode option-1300nm (observe network timing restrictions)

Optical unit connection: Connect 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.

- Operation Mode:** Ethernet IEEE 802.3
- On-Board Buffer Memory:** 32 KB
- Interrupts:** 3, 5, 9, 10, 11
- Ethernet Controller:** Intel 82595
- Input/Output Interface:** IBM PCs 25 & 30 (hardware compatibility) AT, EISA compatible
- Transmission Line Interface:** ST optical connector standard (SMA option)
- Transmission Distance:** 6600 ft. (2km), (5 km and 10 km option)
- Transmitter Output Power:** 15 Microwatts into 62.5/125 Micron fiber
- System Wavelength:** 820 nm (1300 nm Multi or Single mode Option)
- Data Rate:** 10 Mbps
- Bit Error Rate:** 10⁻⁹
- Receiver Sensitivity:** 1 Microwatts @ 820 nm
- LED Diagnostics:** TX/RX/Link/Col
- Operating Temperature:** 0 °C to 50 °C
- Size:** Half Card (3.5" X 6.5")
- Weight:** 8 oz. (0.25 grams)
- Input Power:** Powered from PC Bus-5 Watts @ 5V
- Software Compatibility:**
 - NDIS 2.01 DOS and OS/2
 - NDIS 3.0 WindowNT, Windows for Workgroups 3.11
 - Artisoft LANtastic
 - Novell Netware
 - Windows '95
 - IBM LANserver

UL & CSA listed. Meets FCC requirements of Class B, Part 15 Computing Devices Standard, IEEE 802.3 Ethernet Standard. Specifications subject to change without notice.

