B&E Technologies

FE-124 Fast Ethernet Adapter for PCI Bus

The FE-124 100TX Fast Ethernet Adapter CPI is a 32-bit LAN adapter for use in personal computers with a Peripheral Component Interconnect (PCI) computer bus.

This adapter is a dual-speed adapter and features a single connector for either a 10magabits per second (10Mbps) or a 100 megabits per second (100Mbps) IEEE 802.3u Ethernet network connection over unshielded twisted-pair (UTP) cable. The adapter can automatically negotiate the connection type and switch to either 10 Mbps or 100 Mbps, full or half duplex.

Adapter Features

The features of the Fast Ethernet PCI adapter include:
· High performance bus master operation with low processor utilization
· Boot ROM socket (QNX 4 Boot ROM available)
· Automatically senses 10 Mbps or 100 Mbps connection and configures the speed accordingly
· PCI revision 2.1 compliance, 32-bit PCI half-card
· Status LED indicates link up
· 100base-TX connection with UTP Category 5 cabling
· 10base-T connection with UTP Category 3,4, 5 cabling
· Auto negotiation or software configurable to operate in full-duplex mode, increasing aggregate bandwidth up to 20 Mbps and 200 Mbps
· QNX 4 network driver on the adapter driver diskette

Operating Environment
· Power: +3.3VDC @ 378mA max.
· Operating Temperature: 0ºC to 50ºC
· Storage Temperature: -25ºC to 70ºC
· Operating Humidity: 10% to 70% (non-condensing)
· Storage Humidity: 10% to 90% (non-condensing)

Product Specifications

Physical Specifications
· PCB mounted low profile RJ-45 connector
· LED indicator: link status
· Dimensions: 120mm x 58mm (4.72" x 2.28")

Warranty
·2 years

Installation Considerations
ETHERNET

Twisted Pair Cable
· Category 3 or better unshielded twisted pair
· Distance from node to hub: 100m (325 ft)
· Total network span: 500m (1320 ft) *Based on recommended maximum of 5 links and 4 repeaters between nodes.*

FAST ETHERNET

Twisted Pair Cable
· Category 5 unshielded twisted pair
· Distance from node to hub: 100m (325 ft)
· Total network span: 205m (670 ft)

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