

# **Fast Ethernet 100Base-FX PCI Adapter**

**User's Manual**

## 1. Overview

100FX is a PCI Fast Ethernet Board that fully complies with all IEEE 802.3u and 100Base-FX standards. Two LED indicators (LINK/ACT, FDX) on the bracket will help oversee the network/board link, activities, collision and full-duplex status.

## 2. Checklist

Before you start installing the 100FX, verify that the package contains the following items:

- 100FX Board
- LAN Driver Diskette
- This User's Manual

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

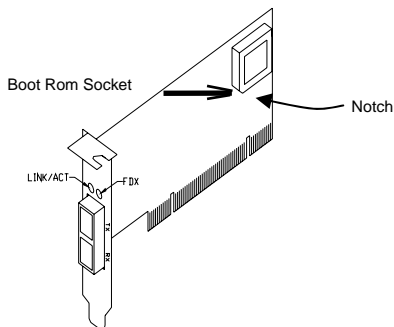


Fig. 1 Diagnostic LEDs and Boot ROM Socket

### 3. PCI Configuration

For motherboards with automatic PCI configuration:

- No specific setup is needed
- You can enter the system BIOS setup menu to view or specify the interrupt line of the PCI slots

For motherboards with bus master & interrupt jumpers:

- Enable bus master operation in a selected PCI slot and select an interrupt (IRQ) level using the appropriate motherboard jumper
- Enable I/O on the 100FX PCI slot

### 4. PCI Bus System & Configuration

- Ensure that the PCI machine does support master slots, INT multiple sharing and timing compatibility.

Do not install 100FX in PCI slave slots. Please refer to your PCI system manual and select the appropriate configuration settings.

- When installing multiple 100FX boards at the server station, you should correctly configure the IRQ settings of the PCI slot. Up to four 100FX boards can be installed in a PCI file server running NetWare system. The 100FX server boards share the same interrupt line with the driver supporting multiple INT services at a time. Each 100FX's IRQ should not conflict with other boards.
- Operation in full or half-duplex (**Default**) mode is configured by LAN driver options. The operating mode should match the remote link device's working status.
- You must use **EMM386** version **4.49** or **higher**, and install both **DOS & EMM386** that came from the same DOS package to avoid software problems.

### 5. Diagnostic LEDs & Boot ROM

The LINK/ACT LED lights when fiber cable connection is good and blinks to indicate the activity.

Collision and full-duplex LED report the board's operating status.

To add the Remote Boot feature to a workstation, you can insert the Boot ROM into the socket  
(See Fig.1).

## 6. Network Connection

100Base-FX network allows 512-bit time delay between any two node stations in a collision domain. The Fiber cable with devices' bit-time delay (round trip) is as below:

100Base-FX	DTE↔DTE	Class II Hub	Fiber Cable
	100	92	1.0/m

The overall bit-time of Fiber wires and devices must be within 512 bit in a segment. You may use Switching Hub to break up collision domain and extend the cabling distance.

### • Fiber Cable(multi-mode) Limitations:

Half-duplex Class II Hub	Node to Node	205m
	Node to Hub	100m
	Hub to Hub	5m
Half-duplex Switching Hub	Node to Node	412m
	Node to Hub	412m
	Hub to Hub	412m
Full-duplex Switching Hub	Node to Node	2Km
	Node to Hub	2Km
	Hub to Hub	2Km

## 7. Technical Specifications

- **Standard :** IEEE 802.3u Fast Ethernet 100Base-FX
- **Data Transfer Mode / Speed:**
  - PCI bus master

- Full or half-duplex(**Default**) mode
- 100Mbps speed
- **LED Indicators:** LINK/ACT, FDX on the bracket
- **Power Requirement** : 1.0A @+5V
- **Ambient Temperature** : 0 to 50°C
- **Humidity** : 5% to 90%
- **PCB Dimensions:** 22.5(H) × 80(W) × 138(D) mm
- **Complies with FCC Part 15 Class A and CE Mark**

Note: For connecting this device to Router, Bridge or Switch, please refer to the corresponding device's Technical Manual.