

E-430/E440

*Ethernet Adapter
User's Manual*

Networking the future

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FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a class B device, pursuant to Part 15 of FCC rules. These limits are designed to provide reasonable protection. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. Operation of this equipment in a residential area may cause harmful interference, in which case, the user will be required to correct the interference at the user's own expenses.

CE declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN55022 class A for ITE and EN50082-1, the essential protection requirement of the Council Directive/CE on the approximation of the Member States relating to Electromagnetic compatibility.

Trademarks

All products and Brand names are trademarks and/ or registered trademarks of their respective companies.

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Introduction

Thank you for purchasing our NuBus/LC PDS card. Each is very user friendly and installation is a snap. This manual will walk you through the installation process and set-up.

The NuBus/LC PDS Ethernet adapter is a high performance adapter which supports Plug and Play and fully auto-configures to your system.

The adapter supports full-duplex mode. Full duplex mode can be used to obtain throughput up to 20Mbps when connect to an FastEthernet Switching Hub.

Hardware Supported

LC PDS:

- Macintosh Color Classic family with a LC PDS slot.
- Macintosh LC family with a LC PDS slot.
- Macintosh Quadra family with a LC PDS slot.
- Macintosh Performa family with a LC PDS slot.
- Power Macintosh family with a LC PDS slot.

NuBus:

- Macintosh II family with a NuBus slot.
- Macintosh Centris family with a NuBus slot.
- Macintosh Quadra family with a NuBus slot.
- Macintosh Performa family with a NuBus slot.

Chapter 1 Introduction

Operating System Supported

Your system must be 7.0 or higher to install the proper driver.

Please note that if your system is 7.5.2 or before. You must change a default setting in your computer. (see software installation)

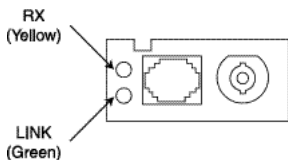
If your system is 7.5.3 or higher and does not contain an **Open Transport** extension. You must download it from the **Apple Computer's** web site. (see Software Installation)

Features

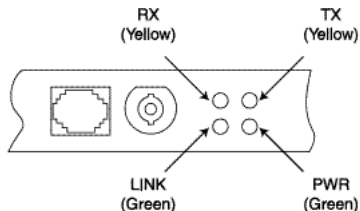
- Designed for NuBus or LC PDS Macs. Delivers optimal network performance.
- LC PDS & NuBus 16-bit architecture
- Complies with IEEE 802.3 10BASE-T (Combo & T-only) & 10BASE-2 (Combo)
- Supports Full Duplex on switch hubs
- Network media: UTP-3,4,5/STP-1 for 10BASE-T (Combo & T-only)
BNC for 10BASE-2 (Combo)
- LED indicators for installation verification and diagnostic purposes
- FCC Class A, CE Class A

LED Indicators

LC PDS: Link and RX (see figure 3)



NuBus: Link, RX, TX, and PWR (see figure 4)



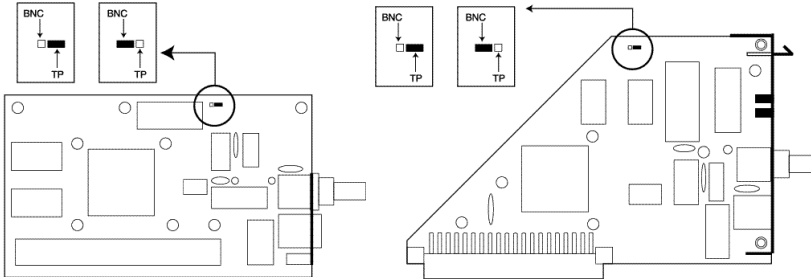
LED Indicator Functions:

- Link Lit - Indicates Connection is OK.
 Unlit - Indicates no Connection.
- RX Blinking - the Ethernet card is receiving data
- TX Blinking - the NuBus card is transmitting data
- PWR Lit - Power on.
 Unlit - Power off.

Chapter 2 Installation

Jumper Settings (for combo only)

If you have a BNC cable (resembles a cable TV co-axial cable) the jumper should cover the left 2 pins. (See diagram below). If you have a TP cable (resembles a telephone line plug) the jumper should be set covering the 2 right side pins. (See diagram).



Hardware Installation

When you unwrap each card from its anti-static bag be sure to hold the card by the edge only and do not touch the gold pins inside the interface bus.

- Power off the Macintosh but keep it plugged in.
- Open the Macintosh case and remove the access port cover. (see owners manual)
- Because computers are sensitive to static shock please ground yourself by touching a non-working part of the computer chassis.
- Slide the adapter through the access port and press it firmly into the slot. Do not wiggle the adapter from side to side.
- Close the Macintosh case and turn the power on.

Software Setup

Your system must be 7.0 or higher to install the proper driver. If your system is 7.5.2 or below with no “**Open Transport**,” you must have the “**EtherTalkPhase 2**” Extension. Follow the steps below:

- Choose **Control Panels** from the Apple menu. (click on the tiny apple on the top left of your screen to display)

- Double click on the **Network** icon
- Click once on the **EtherTalk** icon.



- Close the window.

If your system is 7.5.3 or above with no “**Open Transport Software**,” you must download software from **Apple Computer**’s web site. When you have finished installing “**OpenTransport**” follow the steps below.

- Choose **Control Panels** from the Apple menu. (click on the tiny apple on the top left of your screen to display)
- Double click on the “**AppleTalk**” icon
- Select “**Ethernet**” in the “**Connect via**” menu.



- Close the window.

Specifications

- **Media:** 10BASE-T (Combo&T-only) RJ-45 STP-1/UTP-3,4,5
10BASE-2 (Combo) BNC RG-58
- **Standard:** IEEE 802.3 10Mbps
- **Transmission Rate:** 20/10Mbps at Full/Half Duplex mode
- **LED Indicators:** Link (E430 E440), RX (E430 E440), TX (E440), PWR (E440)
- **Certifications:** FCC Class A
CE Class A
- **Weight:**

LC PDS(E430 Combo)	80g
LC PDS(E430 T only)	105g
NuBus(E440 Combo)	120g
NuBus(E440 T only)	95g
- **Temperature:**

Operating 0°C~55°C	32°F~131°F
Storage -40°C~70°C	-40°F~158°F
- **Humidity:**

Operating 10%~80%
Storage 5% ~90%