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## Apple PCI Token Ring Card: Description & Specifications (5/96)

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TOPIC -----

This article provides the description and specifications for the Apple PCI Token Ring Card.

DISCUSSION -----

### Features

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The Token Ring Solution for PCI Macintosh, The Apple PCI Token Ring Card, provides Apple Workgroup Servers and Power Macintosh models equipped with a Peripheral Component Interconnect (PCI) slot with the ideal Token Ring connectivity solution for all of your networking needs. It supports a wide range of protocols, including AppleTalk, TCP/IP, and IPX, allowing the use the Apple PCI Token Ring Card with other network systems, such as Netware and AIX.

NOTE: The Apple PCI Token Ring Card supports IPX protocols. However, as of April 1996, the MacIPX control panel from Novell depends on NuBus specific APIs to locate networking cards. Therefore, the current MacIPX software does not support the Apple PCI Token Ring Card.

### High Performance

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Featuring a compact (6.88-inch) design, the Apple PCI Token Ring Card provides exceptional performance at a highly affordable price. When used with network software that has been optimized for maximum performance, this card offers a cost-effective, flexible Token Ring solution for connecting Power Macintosh computers to Apple Workgroup Servers and other PCI-equipped personal computers or to mainframes. The Apple PCI Token Ring Card offers access to a variety of network services such as file servers, client/server applications, mainframe services, electronic mail, and databases.

- Offers optimal efficiency in client and server environments through its use of the high-performance IBM chip set
- Allows concurrent execution of multiple networking protocols to optimize network performance
- Ships with Apple Open Transport architecture and DLPI network driver software

- Supports full 32-bit bus mastering data interfaces for maximum throughput
- Can be used in configurations ranging from an individual card in a single system to multiple-card, server-based configurations
- Supports PCI bus speeds of up to 132 megabytes per second

#### Full Compatibility

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The Apple PCI Token Ring Card uses the IBM Token Ring chip set, which ensures its compatibility and inter-operability with all IBM Token Ring networks that operate at 4 or 16 megabits per second. Used in conjunction with a Power Macintosh with the DOS Compatibility Card\* installed or a Power Macintosh running Insignia Solutions SoftWindows DOS/Windows emulation software, this card can provide a seamlessly integrated cross-platform solution to all of your application and networking needs.

\* The Apple PCI Token Ring Card is not compatible with Apple's PCI DOS Compatibility Card.

- Works with the following Macintosh and Performa models with a PCI slot:
  - Power Macintosh 7200/120 computers
  - Power Macintosh 5400 Performa computers
  - Power Macintosh 7500, 7600, 8500, and 9500 series computers
  - Workgroup Server 7250
  - Workgroup Server 8550 series computers
- Complies with IEEE 802.5 and 802.2 standards
- Uses the IBM Token Ring chip set, which provides complete compatibility with IBM environments
- Supports a variety of popular networking protocols, including AppleTalk, TCP/IP, IPX, SNA, and OSI
- Easily integrates into multi-vendor environments
- Adapts to any standard Token Ring cabling environment
- Offers compatibility with any Intel or DEC Alpha systems equipped with a PCI local bus slot

#### Easy Installation

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This convenient, easy-to-install card requires no configuration, features superior network performance, and affords the flexibility of connection to both LAN and mainframe-based services. So if your goal is seamless inter-operability in multi-vendor environments, Apple PCI Token Ring Card can help you to achieve it.

- Installs quickly and easily in a single step
- Ships with multilingual software, which makes it ready for use with different language versions of the system software
- Provides automatic sensing of Token Ring network speed: automatically inserts at 4 or 16 megabits per second, as appropriate

#### Specifications

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System Requirements

- One available PCI slot
- IBM Type 3 cabling (unshielded twisted pair) or IBM Type 1 cabling (shielded twisted pair) with use of an external adapter
- Industry-standard Token Ring Multistation Access Unit (MAU)

Connector

- RJ-45 connector for attaching to Type 3 cabling

Transmit/Receive Data Rate

- 4- or 16-megabit-per-second maximum data rate

Environmental Requirements

- Operating temperature: 50 to 104 degrees F (10 to 40 degrees C)
- Humidity: 25% to 95% noncondensing at a temperature range of 25 to 40 degrees C

Power Dissipation

- Rated at 4 W, maximum 5 W, average 3.5 W
- Maximum current draw is 1 amp at 5 volts

Token Ring Controller

- IBM Token Ring Controller 73G2692

Standards Compliance/Agency Approvals

- FCC Class A, CE Mark, VCCI
- PCI 2.1 compatible, IEEE 802.5 and 802.2

Article Change History:

- 30 May 1996 - Updated 7200 compat info.
- 14 May 1996 - Updated with more detailed compatibility info.
- 19 Apr 1996 - Added note on MacIPX software.

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