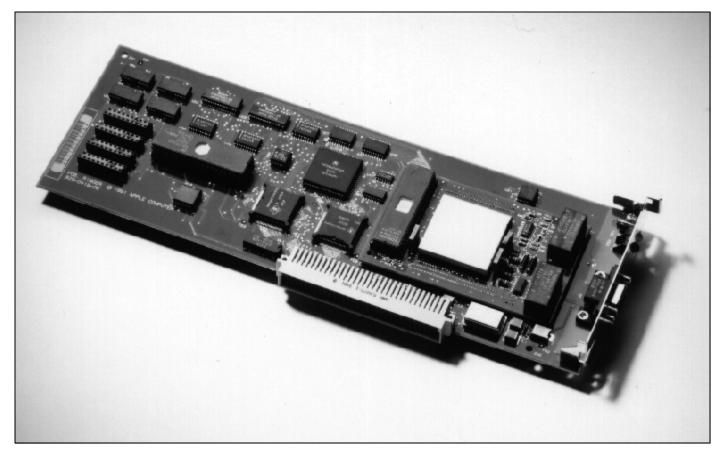
X AppleTokenRing4/16NBCard



The Apple Token Ring 4/16 NB Cardis abus master network interface card that allows Macintosh computers with NuBus^s expansion slots to connect to Token Ringnetworks that operate at either4or16megabitspersecond (Mbps). The cardisbased on the Macintosh Coprocessor Platform, and includes its own Motorola 68000 microprocessor,512KofRAM,and A/ROSE, a real-time, multitasking operating system that runs on the card. The card operates independently of the main Macintosh processor, executing multiple networking protocolsornetworkapplication

programs concurrently. This maximizes both system and network performance.

The Token Ring 4/16 NBC ard uses the IBM Token Ring chip set, ensuring compatibility and interoperability with all IBM Token Ring networks that operate at 4 or 16 Mbps. The card also supports a variety of software environments, including Apple Talk, 3270, and APPC. This flexibility provides users connected to Token Ring networks with access to both local area network (LAN) and mainframebased services.

Features

Apple Token Ring 4/16 NB Card

- > Connection to IEEE 802.5 and 802.2 industrystandard Token Ring networks
- Software-switchable4and16Mlbpsspeeds
 IBMToken Ringchipset;DB-9connector
- formatting to IBM-type cabling
- > IncludesTokenTalksoftware
- > Password-protectedspeedselection, timer settings, and locally administered address
- All Macintosh Coprocessor Platform Cards
- > Multiprocessor, bus master architecture
- > Motorola68000 microprocessor
- > 512KRAM, expandable to 2.5MBRAM
- > AppleReal-timeMultitaskingOperating SystemEnvironment(AROSE)

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Technical Specifications

Hardware

- > Chipset: IBMToken Ring
- > Connector: DB-9connectorforattachingto IBMType 1 cabling. External adapters for Type 3 cabling are available from other vendors
- > Processor: Motorola68000runningat10Mhz
 > Busintorfaco: NuBushusmostor
- > Businterface: NuBusbusmaster
- > Memory:512KofRAM,expandableto2.5 megabytes
- > Powerrequirements:1.5ampsat5volts Certification:FCCClassA;VDE
- > Expansion memory: When increasing memory on the card, the following specifications must be met.

Type:DynamicRAM

Size:256Kx4(for expanding to 1MB) or 1MBx4(for expanding to 2.5MB) Configuration:4bitswide

PadkageZIP

Speed:120nsorfaster

Toexpandthe Token Ring4/16NBCard memory to 1 MB, order the Macintosh Coprocessor Platform Memory Expansion Kit (see details below under "Ordering Information and Related Products"). Or, obtain the following parts: Mitsubishipart/V5M44C256L-12

HitachipartHM514256ZP-12

Apple Token Ring 4/16 NB Card

OrderNo.M0415LL/A

To expand the Token Ring 4/16 NBC ard memory to 2.5 MB, obtain the following parts: Toshiba part TC 514400z-10 Texas Instruments part TMS 44400-12 SD

Software

- > Application interface: AppleTalk, Apple3270 API, APPC verbinterface
- > LLCimplementation: Type1andType2
- > Routing:SupportsIBMsourcerouting

Software - Configurable Card Settings

- > Transmission speed: 4or16megabitsper second
- > Token Ringaddress: burned-in or locally administered address
- Timers: Response (T1), Acknowledge (T2), and Inactivity (Ti)
- > Cardsettingscanbepassword-protected

Token Ring Cabling Specifications Shieldedtwisted-pair (IBMType1 cabling)

- Maximumdistancefrommultistationaccess unit (MAU) to device (lobe length)=300 meters
- > Maximum distance between two MAUs (trunk length) = 200 meters
- > Maximum devices perring=260

Unshieldedtwisted-pair(IBMType3cabling)

- > Maximum distance from MAU to device (lobe length)=100 meters
- > Maximum distance between two MAUs (trunk length)=120 meters
- > Maximum devices per ring=72

Ordering Information and Related Products

With your order, you'll receive:

- > AppleTokenRing4/16NBCard TalkanTalkaaftuvarainatallardial
- > TokenTalksoftwareinstallerdisk
 > Apple Token Ring4/16NBCardUser's Guide

Related Products For3270terminalemulationand/orAPPC services, order: Apple SNA-ps Gateway version 1.1 or later. SNA-ps requires at least 1 megabyte of RAMon the card.

Toincreasememory,order: MacintoshCoprocessorPlatformMemory ExpansionKit.OrderNo.M0145LL/A

You can also use products from other vendors to increase the memory on the card. See details under "Hardware" above.

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