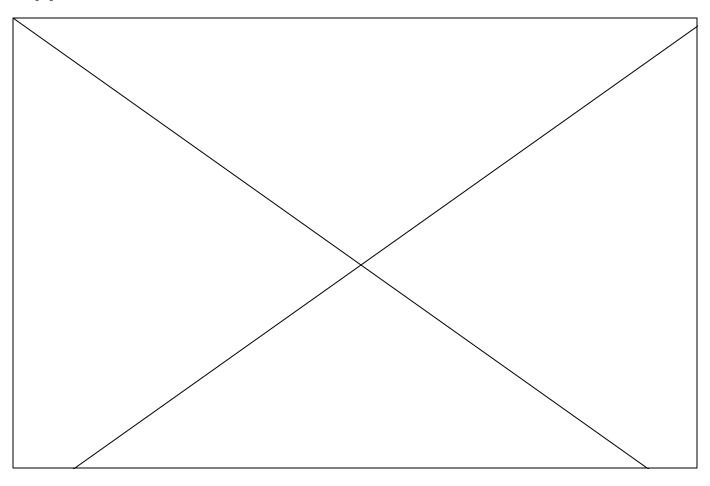
Apple Token Talk NB Card





Overview

The Apple® Token Talk® NBC ardis an expansion card that allows personal computers in the Macintosh Ilfamily of systems to connect to IBI Mand IBI M-compatible Token-Ringnetworks.

Because the card supports a variety of network environments, including Apple Talk®, 3270, APPC, and SMB, users can access local area network (LAN) and mainframe-based services connected to the Token-Ring.

The Apple Token Talk NBC ard is an intelligent NuBus interface card that has its own 68000 microprocessor, memory, and multitasking operating system. Operating independently of the main

Macintosh Il processor, the card supports the concurrent executionofmultiplenetworking protocolswithminimalaccessto the Macintosh Il processor and operatingsystem. It incorporates theindustry-standardTexas InstrumentsTMS380chipsetfor alToken-Ringaccessfunctions. Andbecauseallthecommunicationsprocessingisdoneonthe card, your Macintosh Ilisfree to runotherMacintoshapplications. The Apple Token Talk NB Card iscompatible with the IEEE 802.5 MediaAccessControl(MAC) standardforToken-Ringnetworks, aswellasthelEEE802.2Logical LinkControl(LLC)standardfor

higher-levelsoftwareaccessto 802.5facilities. The cardtransmits and receives data at 4 megabits persecond, and interoperates withother IEEE 802-compatible Token-Ring interface cards at the physical and data linklayers.

Features

Benefits

Connectionto IEEE802.5 and 802.2 industry-standard Token-Ring networks	 Provides Macintoshaccesstonetwork-based applications, services, and data. Supports the IBM cabling system.
 SupportforAppleTalkprotocolsand services 	 Allowsaccesstonetwork-basedservicesviaa single cabling system. Providesaccess to Apple Talkservices at 4 megabits per second.
TexasInstruments'TMS380TokenRing chipset	 EnsurescompatibilitywiththeIEEEandIBM Token-Ringstandards.
 BasedontheMacintoshCoprocessor Platform[§] 	 Handlesallcommunicationsprocessingfor the Macintosh II. Allows concurrent execution of multiple networking protocols.
SupportforAppleandthird-partynetwork services	Enables the user to choose from a range of network environments.

Token Talk Software and SMB File Transfer Utility (included with Apple Token Talk NB Card)

TokenTalk Software

Apple's Token Talksoftware, which is compatiblewith AppleTalk Phase 2, brings the advantagesofthe Apple Talknetwork system to standardToken-Ringnetworks.Personal computers in the Macintosh II family of systems can be connected to virtually any size Token-Ringnetworkorinternetworkwhile retaining accesstoallAppleTalk-basedresources, such as AppleLaserWriter®printersandAppleShare® file and print servers.

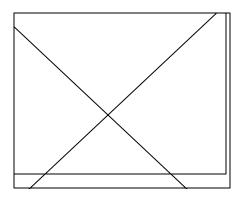
Aspartofthe Apple Talknetworksystem,

TokenTalkiscompletelytransparenttothe Macintoshuser. Aftertheuserinstalls Token-TalkviaasimpleMacintoshprogram,AppleTalk services appear as they would on any Apple Talk network. Through the Control Panel desk accessory, the user can easily establish a link to the Token Talknetwork. The Chooserdesk accessoryisthenusedtoselectAppleTalk networkservices.

TheTokenTalksoftwareprovidesthe extendedfeatures of Apple Talk Phase 2.

AppleTalkPhase2permitsuserstobuildsingle networksofmorethan64,000Macintosh personal computers, and internetworks of more than 16 million Macintosh computers. And the TokenTalksoftwaredeliversAppleTalknetwork services concurrently with other Token-Ring services, such as MacDFT sor MacAPPCs.

Using network routers, such as the Apple Talk Internet Router, Token Talkalso allows easy user access to services on Local Talk and Ether Talk networks.



Features

- SupportforAppleTalkPhase2protocols runningover802.5Token-Ringnetworks
- Integration into the Macintosh desktop environment
- Supportforsource-routingbridges
- User-installable

Benefits

 BringsAppleTalkservicestoMacintosh usersinToken-Ringenvironments.

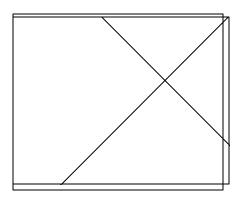
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- Provides consistency in network installation, connection, and access.
- AllowsTokenTalkuserstoleverage their investmentin IBMToken-Ringbridges.
- Installsquicklyandeasily.

SMBFileTransferUtility The SMB File Transfer Utility software allows usersofMacintoshandIBM-compatible

personalcomputerstoexchangefilestoshare information in their work groups. Apple

MacintoshllsystemsattachedtoaToken-Ring networkcanaccessinformationonIBMPCLAN Program SMB (Server Message Block) file servers.UserscanmountSMBvolumesand transferfiles between their Macintosh II systems and the mounted volumes. The SMB File Transfer Utility uses the Apple File Exchange application (included) to transfer and translate filesbetweenMacintoshandMS-DOSformats.



Features

- **SMB**protocols
- The Apple File Exchange application
- **Benefits**
 - Allows Macintosh computers to access IBM PCLANProgramSMBfileservers.
 - RunsconcurrentlywithTokenTalksoftware andotherTokenRingservices
 - Makesiteasiertosharedatabetween difference operating environments.
 - Allowsfiles to be translated into an application-specificformat
- Adeskaccessoryforaccessingfilesonthe SMBserver
- Allowseasymountinganddismountingof SMBservervolumes.



Apple Token Talk NB Card

System Requirements	TousetheAppleTokenTalkNB Card, you'll need: Apersonal computer in the Macintosh Il family of systems One or more of the following applications: -TokenTalksoftware (AppleTalk	servicesoverToken-Ring) -SMB File Transfer Utility software (file transfer to and from SMB servers) -MacDFT software (3270 emulation over Token-Ring) -MacAPPC software (APPC	supportoverToken-Ring) TokenTalksoftwareandSMBFile TransferUtilitysoftwarearein- cludedwiththeAppleTokenTalk NBCard.MacDFTsoftwareand MacAPPCsoftwareareavailable separatelyfromApple.
Technical Specifications	Connectors DB-9connectorforattachingto theIBMcablingsystem Externaladapter(availablefrom othersuppliers) for use with Type 3cabling Interface NuBus; plugsintoany Macintosh Ilcomputer	Processor	Power dissipation
Ordering Information	Apple TokenTalk NB Card	OrderNo.M0237	Withyourorder, you'll receive: Apple Token Talk NBC ard User Confidence Test disk Token Talk Installer disk Token Talk User's Guide SMB File Transfer Utility disk SMB File Transfer Utility Software User's Guide
	Otherplatforms supported by the Apple Token Talk NBC ard Torun five-session 3270 emulation on the Apple Token Talk NBC ard, you'll need to order the MacDFT software. Torun MacAPP Cover Token Ring, you'll need the MacAPP Csoftware.	Please refer to the following product sheets for descriptions of features and ordering information about these Apple Products: Apple Coax/Twinax Card (M0063LL/A)	- MacDFT(M0064LL/A) - MacAPPC(M0238LL/A)

June 1989. Productspecifications are subject to change without notice. Printed in U.S.A. M0062LL/A