Apple ISDN NB Card

The Apple ISDN NB Card provides Macintosh II computers with basic rate connectivity to the Integrated Services Digital Network (ISDN). When used with the Apple ISDN software, the card provides users with access to a wide variety of services, such as centralized document, image, and video database applications; integrated screen-based telephony and office automation applications; and high-speed file transfer.

The Apple ISDN NB Card is an intelligent NuBus™ card with a 68000 microprocessor, 512K of RAM, and a multitasking operating system. Because of its independent processor, the Apple ISDN NB Card executes communications protocols with minimal access to the Macintosh II CPU. The Apple ISDN NB card implements the CCITT ISDN basic rate interface (2B+D) and supports a standard analog DTMF (dual-tone multifrequency) telephone. Used with the Apple ISDN software, the Apple ISDN NB card is compatible with the AT&T 5ESS and Northern Telecom DMS-100 ISDN switches.

The Apple ISDN NB Card and software support simultaneous voice and data circuit-switched connections. The Apple ISDN NB Card provides direct access to 64/56 Kbps for synchronous connections and supports the CCITT V.110 and V.120 rate adaption protocols for asynchronous connections.

The Apple ISDN NB Card and software are supported by the Macintosh Communications Toolbox, a high-level applications programming interface (API). The Communications Toolbox supports the new Telephone Manager, Apple ISDN Telephone Tool, and Apple ISDN Serial Tool. The Telephone Manager and ISDN tools provide access to a core set of telephone and data functions for developing and implementing integrated voice and data applications on the Macintosh.

Apple ISDN NB Card Features

> Simultaneous circuit-switched voice and data connection capabilities
> Software-selectable ISDN switch type and configuration
- - AT&T 5ESS
- - Northern Telecom DMS-100
> ISDN basic rate S-interface (RJ-45)
> Voice call control from a standard analog telephone attached to the Apple ISDN NB Card (RJ-11)
> Works on any Macintosh II computer running System 7
> V.120 and V.110 rate adaption support
> Macintosh Communications Toolbox support
- - Telephone Manager
- - Apple ISDN Telephone Tool
- - Apple ISDN Serial Tool
> External power sources
- - Apple ISDN Power Supply
- - power source 2 (PS2)

☒ Apple ISDN NB Card

Technical Specifications

Hardware
> NuBus card based on the Macintosh Coprocessor Platform
> 68000 processor with 512K of RAM
> RJ-45 connector for basic rate (2B+D) four-wire S-interface according to CCITT I.430 specification
> RJ-11 connector for support of standard DTMF telephone
> Connector for external power supply
> Built-in support for PS2 circuit power at the ISDN S-reference point

Software
> Compatibility with the AT&T 5ESS and Northern Telecom DMS-100 ISDN switches
> V.110 rate adaption data speeds supported: 600, 1200, 2400, 3600, 4800, 7200, 9600, 14400, and 19200 bps
> V.120 rate adaption data speeds supported: determined by the remote computer's terminal adapter, which also must use the V.120 protocol

System requirements
> A Macintosh II computer running System 7 (The Macintosh IIsi requires a NuBus adapter.)
> Basic rate interface lines that support one of the following ISDN basic rate lines or equivalent:
-- AT&T 5ESS
-- Northern Telecom DMS-100
-- an emulator or PBX that is compatible with one of the above switches
> A basic analog telephone with DTMF dialing
> A telephone cord to connect your telephone to the RJ-11 connector on the ISDN NB Card
> Network terminating resistor (It is recommended that a terminating resistor be used if there is more than 33 feet of cable between the network termination point [NT1] and the Apple ISDN NB Card.)

Ordering Information

Apple ISDN NB Card
Order No. M0125

With your order, you receive:
> Apple ISDN NB Card
> Apple ISDN software with support for the AT&T 5ESS and Northern Telecom DMS-100 switches
> *Apple ISDN NB User's Guide*
> RJ-45 cable
> Apple ISDN Power Supply
> Limited warranty statement

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