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## Apple ISDN NB Card: Description (Discontinued)

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### TOPIC -----

This article describes the Apple ISDN NB Card, a discontinued product.

### DISCUSSION -----

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 it provides 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)

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