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Apple Ethernet NB Card: Specifications

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TOPIC -----

This article gives technical specifications for the Apple Ethernet NB Card.

DISCUSSION -----

The Apple Ethernet NB Card provides physical and link level access to data communications networks meeting IEEE 802.3 and 802.2 Logical Link Control (LLC) type 1 standards. Several networking protocols can be used with the Ethernet NB Card.

Configurations

- AppleTalk protocol, Macintosh OS, EtherTalk software
- AppleTalk protocol, A/UX, EtherTalk for A/UX software
- TCP/IP protocol, Macintosh OS, MacTCP software
- TCP/IP and NFS, A/UX, B-NET software

Connector

- Apple Ethernet

Transmit/Receive Data Rate

- 10-megabits-per-second maximum data rate

Processor

- Motorola 68000 running at 10 megahertz

RAM

- 512K standard, expandable to 1MB with Apple order No. M0145LL/A, or 2.5MB with third-party memory expansion modules

Environmental Requirements

- Operating Temperature
50° F to 104° F (10° C to 40° C)

- Humidity
20% to 95% noncondensing at a temperature range of
25° C to 40° C

Ethernet Controller

- National Semiconductor DP83932 (SONIC)

System Requirements

- Macintosh II family

In addition to the Apple Ethernet NB Card and accompanying software, the following are required to connect one of the Macintosh II family of personal computers to an Ethernet network:

- One available NuBus slot in the computer. Or, with the Macintosh IIsi, a NuBus Adapter Card. Macintosh system software version 6.0.4 or later; or A/UX system software version 2.0 or later.
 - If you're using AppleTalk network services, the network must use AppleTalk Phase 2 protocols.
 - An Apple Ethernet Cable System media adapter.
- Apple Ethernet Thin Coax Transceiver
Provides plug-and-play networking in a high-performance Ethernet environment. The Ethernet NB Card, the Apple Ethernet Thin Coax Transceiver, and the 2-meter segment of thin coaxial cable included with the Transceiver are all you need to connect your Macintosh NB computer to an Ethernet network. No terminators or other Ethernet hardware is required.

The Apple Ethernet Self-Terminating Cable -- 5 Meter and Apple Ethernet Self-Terminating Cable -- 13-Meter Plenum, or other RG 58 A/U thin coaxial cable, can be used to connect devices that are more than 2 meters apart.

- Apple Ethernet Twisted-Pair Transceiver

The Apple Ethernet Twisted-Pair Transceiver is used to connect the Ethernet NB Card to an Ethernet network using unshielded twisted-pair cable.

To use Ethernet with unshielded twisted-pair media, you need an IEEE 802.3 10BASE-T-compatible hub, sold separately from third-party vendors.

- Apple Ethernet AUI Adapter

The Apple Ethernet AUI Adapter provides the Ethernet NB Card with a standard IEEE 802.3 Attachment Unit Interface (AUI). The AUI can be used to connect the Ethernet NB Card to an external transceiver.

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