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TITLE

Power Mac G4 (AGP Graphics): Ethernet and Wireless
Networking Specifications

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TOPIC

This article provides the specifications for the Ethernet and wireless networking capabilities of the Power Mac G4 (AGP Graphics).

DISCUSSION

The Ethernet controller on the Power Mac G4 (AGP Graphics) is similar in function to previous 10/100 Megabit Ethernet controllers Apple has used. The main difference is with the controller itself. Apple originally used a DEC 21143 chipset for Ethernet. Ethernet and FireWire has since been rolled into the Uni-N chipset. Because it is a different hardware controller, you should only use Ethernet drivers that came with the Power Mac G4 (AGP Graphics) and not any versions from previous Macintosh computers.

Some of the other specs for the onboard Ethernet are:

- o IEEE 802.3 compliant
- o Maximum cable length: 100 meters (m)
- o Open Transport, Mac OS 8.5 or later, AppleShare, AppleTalk, NetWare for Macintosh, TCP/IP
- o Connector: RJ-45 for 10Base-T and 100Base-TX
- o Media, 10Base-T: Category 3 or better UTP on 2 pairs up to 100 m
- o Media, 100Base-TX: Category 5 UTP on 2 pairs up to 100 m
- o Channel speeds: IEEE Auto Negotiation of 10Base-T and 100Base-TX

About Wireless Networking

The Power Mac G4 (AGP Graphics) supports wireless networking using the optional AirPort Card. To participate in wireless networking, you need the following items:

- o Internal radio antenna - The radio antenna necessary for wireless networking is already installed inside your computer.
- o AirPort Card - This small card (about the size and shape of a credit card) is installed in the wireless networking slot inside the computer. If your computer did not come with an AirPort card, you can purchase one from your Apple-authorized dealer or from The Apple Store at <http://www.apple.com/store>.
- o Wireless network access point - To use your computer's wireless capabilities to access a computer network or Internet service provider, you need to connect a wireless access device to your network. This access device can be an AirPort Base Station (a standalone box with a wireless antenna and network and modem connections) or an AirPort Software Access Point (software running on a wireless-equipped computer).

Specifications for optional AirPort Card

Wireless Data Rate - 11 megabits per second (Mbps) maximum with fallback to 5.5, 2, and 1 Mbps

Range - 150 feet in typical use (varies with building construction)

Frequency band - 2.4 gigahertz (GHz)

Radio output power - 15 dBm (nominal)

Compatibility - 802.11 Direct Sequence Spread Spectrum (DSSS) 1, 2 Mbps standard

- 802.11 HR DSSS 11 Mbps draft standard

Document Information

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