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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

16 June 2000

Ms. Magalie Roman Salas
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, DC 20554

Re: *Amendment to Notice of Ex Parte Communication: OT Docket No. 99-231*
Electronic Filing Confirmation 2000615006121

Dear Ms. Salas:

On 15 June 2000, I inadvertently electronically filed the enclosed ex parte letter without the attachments. Enclosed are the missing attachments.

I apologize for any inconvenience this may have caused.

Sincerely yours,

Pamela S. Ryon
Assistant to Scott Blake Harris

No. of Copies rec'd 072
List A B C D E

15 June 2000

Ms. Magalie Roman Salas
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, DC 20554

Re: *Notice of Ex Parte Communication: OT Docket No. 99-231*

Dear Ms. Salas:

On 14 June 2000, Dick Allen and Josh Tenuta of Apple, Inc., and undersigned counsel, held a series of meetings in the above-noted matter with: Clint Odom of Chairman Kennard's office and Adam Krinsky of Commissioner Tristani's office. In these meetings, Apple made the following points.

- (1) Apple is a consumer products company that does not manufacture RF equipment. Rather, it purchases RF equipment for use in its consumer products.
- (2) Last summer Apple unveiled its "Airport" products which allow its computers high-speed wireless connectivity to the Internet at low prices. The Airport product is based on the IEEE 802.11(b) standard. Since then, Apple has sold millions of computers for use in schools and at home with wireless equipment and software already installed.
- (3) The HomeRF proposal to modify the Part 15 rules would, if adopted, permit unacceptable interference to Apple's Airport products. It would, thus, undermine the substantial investment made both by Apple and its consumers in these products.
- (4) FCC precedent demonstrates that, when considering rules changes, the Commission routinely takes into consideration interference caused to Part 15 devices that comply with current rules.

Ms. Magalie Roman Salas

15 June 2000

Page 2

- (5) Moreover, adoption of a proposal that would cause such interference to advanced Part 15 devices that comply with existing rules would have the effect of drying up future investment in unlicensed communications technology. This too would do great harm to consumers.

- (6) Apple, with great reluctance, accepts the WECA compromise proposal, submitted in this proceeding on April 10th, as a way to allow the HomeRF proponents to accomplish some of their goals without causing harm to consumers.

In these meetings, Apple also made available the attached documents.

Respectfully submitted,

/s/

Scott Blake Harris

SBH:psr

cc: Clint Odom
Adam Krinsky



AirPort

Features

Wireless Internet access

- Internet access anywhere in the home or classroom without wires*
- Simultaneously share a single Internet connection among the computers in your home
- 56K modem for easy Internet access; DSL modem—ready for broadband connections
- Password protection and encryption capabilities to ensure security for your data and communications

Outstanding performance

- High-speed, 11-megabit-per-second data rate
- In the classroom, wireless Internet access at Ethernet speed
- 150-foot typical range, even through walls
- Based on IEEE 802.11 standard for maximum compatibility with existing equipment

Elegantly simple setup and ease of use

- Customer installable
- Setup Assistant has you on the Internet in minutes
- File sharing and file transfer without floppy disks or cables
- Fully integrated software and hardware solution
- No external parts to break or lose

*Requires an account with an Internet service provider.

Have you ever wanted the freedom to use your computer and surf the Internet from anywhere in your home? Or how about being able to use more than one computer to surf the Internet at the same time?

Now there's a simple, affordable way to bring the Internet to every room in your home. And every desk in the classroom. With no fuss and—even better—no cables.

Until recently, if you wanted to access the rich content of the Internet with more than one computer, you had two choices. You could order another telephone line for the second computer—and a second Internet account if you didn't want to have to wait your turn to go online. Or you could wire the computers together in a network. The big problem, of course, with wiring computers together is...the wiring. You'd have to drill holes in walls and run cables through the attic or down the hall to connect the computers—and if you want to move them later on you have to run additional wiring. You'd also have to set up and learn complicated networking software to allow both computers to share an Internet connection.

AirPort offers a much easier and more affordable alternative. Instead of using traditional cabling to create a network, AirPort is an 11-megabit-per-second wireless local area network (LAN) technology that provides efficient, reliable wireless communication between multiple computers and the Internet. With no ugly, messy cables to tie you down, you'll enjoy unprecedented freedom to move about the home or classroom.

What's more, AirPort enables everyone at home to simultaneously surf different web sites and access e-mail through a single Internet service account. There's no more waiting for your turn to dial into the Internet. No additional telephone lines to install. And no more complicated setups. And in the classroom, there's no need to run new Ethernet cables. Students can move about the classroom freely with their computers. And learning takes place wherever it needs to, not just where the computer cable is located.

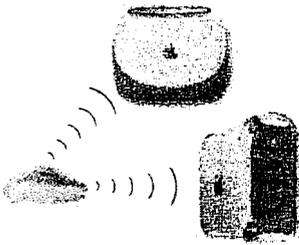
AirPort allows computers to communicate with one another up to 150 feet away—even through walls—so your wireless network can extend to every corner of the house or across several classrooms. AirPort also gives you high-speed file sharing, which means you can quickly move or share files between computers, all without having to rely on floppy disks or other media. Its fast transfer rate—up to 10 times faster than most home networking products—means AirPort can easily handle the most demanding file sharing, multiplayer gaming, and more.



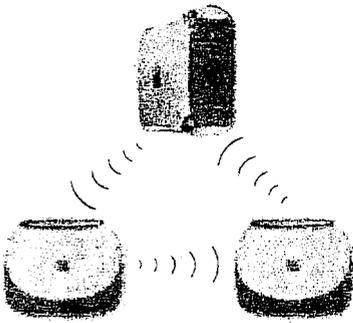
Technical Fact Sheet

AirPort

2



AirPort provides wireless Internet access for wireless-equipped Macintosh systems through the AirPort Base Station. Similar to the base station of a cordless telephone, the AirPort Base Station is a small device that combines a modem and wireless LAN technology to provide connections between your computers and the Internet.



Instead of communicating through a wired network, all AirPort-equipped Macintosh computers can communicate directly with each other without cables or complicated networking hardware. It's a much simpler way to transfer files to other computers without using floppy drives, cables, or infrared equipment. You can share files and play games wherever you happen to be.

AirPort delivers all of the components you need to set up your network in minutes:

- *An AirPort Card*—a card about the size of a credit card that fits easily into a conveniently located slot inside each wireless-ready Macintosh computer, plus all the software you need to set up and operate an AirPort network.

And either:

- *An AirPort Base Station*—a small device similar to the base station of a cordless telephone that plugs into your telephone outlet, DSL modem, or Ethernet network. It receives web pages and e-mail from the Internet and sends them to your computer without wires.

Or:

- *An AirPort Software Base Station*—an AirPort-enabled computer that acts as the wireless base station through its Internet connection. The AirPort software runs in the background on the computer to connect to other AirPort-enabled computers to the Internet.

And, of course, AirPort is a fully integrated hardware and software solution from Apple, designed to work seamlessly with Macintosh computers. Unlike other radio cards and antenna that are attached to the outside of the computer, the AirPort Card fits completely inside the computer—so you don't have to worry about external components breaking or disappearing. And because AirPort is based on industry standards, it can also be used in a cross-platform environment—the ideal solution for classrooms with different types of computers.

Best of all, because AirPort is so easy to install and set up, you're just minutes away from working and playing over the Internet.

AirPort at home

Imagine surfing the web from your sofa. Checking e-mail from your dining room. Enjoying a multiplayer game from your deck. With a transmission radius of approximately 150 feet, and more in certain environments, AirPort lets you put the computer where you want, not just where the phone jack is located. You'll especially appreciate the benefits of AirPort if you use a DSL line; it lets everyone in your home take full advantage of your single high-speed Internet connection.

The simplest and fastest way to set up an AirPort network is to plug an AirPort Card into your iBook or Power Mac G4 computer and an AirPort Base Station into your telephone jack. Within minutes, you'll be free to move from room to room while you use the Internet, or share files among the computers in your home without cables. The AirPort Base Station provides wireless Internet access to as many as ten computers equipped with AirPort Cards. This way, computers can communicate directly with each other or log on to the Internet from any room in the house.

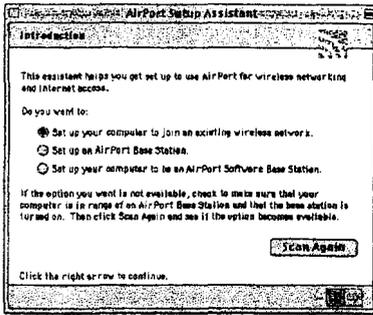


AirPort in the classroom

AirPort wireless networking offers educational institutions exceptional opportunities for increasing communication and collaboration. Not only does AirPort remove the constraints of having to locate computers in specific areas chosen by the network administrator, it enables educators to creatively integrate technology into their curriculum. Consider these possibilities:

- *Ethernet alternative.* When it comes to networking, one of the greatest challenges facing schools is existing facilities. Many schools must address asbestos issues, inflexible wiring configurations, or architectural details that need to be protected. In these cases, AirPort eliminates the need to run Ethernet cabling into every classroom. Simply by locating a base station in a lab or hallway near a classroom, you can provide wireless networking to iBook computers throughout the school.
- *Ethernet supplement.* AirPort also provides an effective solution for classrooms with Ethernet drops that may be poorly situated for instructional use. Instead of running more Ethernet cable in the room, educators can simply place an AirPort Base Station near existing Ethernet cable and a power outlet to extend the Ethernet network. Then students using iBook computers can collaborate more easily on projects, because they can move easily about the classroom without having to disconnect and reconnect cables.
- *Mobile lab.* It's easier to incorporate computers into daily learning when teachers have access to mobile carts with portable computers. A mobile cart that is equipped with a printer, charging station, and portable computers can easily be wheeled from room to room so students can use computers at their own desks regularly during the day. Wireless networking also makes classroom operation more efficient by eliminating the need to plug cables into each student's computer.

Another way to set up a wireless network is to use one AirPort-ready computer, such as a Power Mac G4 or an iBook, as your wireless base station. You simply run the setup utility software that comes with the AirPort Card—there's no need for an AirPort Base Station—and plug the computer into the telephone line or Ethernet network. The software directs the data to and from other computers on the wireless network and out to the Internet. This is an effective way to bring wireless Internet access to your desktop and portable computers.



With the AirPort assistant to walk you through setup, you're just minutes away from wireless Internet access.

AirPort on campus

AirPort gives students, faculty, and administrators unmatched access to the Internet and the campus LAN anywhere on campus. With AirPort Base Stations installed throughout the campus as part of the network infrastructure, institutions can deliver Internet access in lecture halls, classrooms, libraries, student unions, dormitories, and even outdoor quadrangles.

- *Anytime, anywhere collaboration.* Because an iBook with AirPort can easily network with other AirPort-enabled computers, communication and collaboration among faculty and students is now possible wherever they may be. The classroom is anywhere the class happens to be, even outdoors.
- *Modern classrooms.* By installing AirPort Base Stations in college classrooms, lecture halls, or auditoriums, students and faculty can collaborate wirelessly in ways never before possible. Simply plugging an AirPort Base Station into an existing network port enables the wireless exchange of files, e-mail, assignments, and chat sessions—all at Ethernet speeds. So administrators can finally stop thinking about expensive and disruptive hard-wired Ethernet classroom retrofits and focus on the learning process.

Elegantly simple setup and ease of use

Apple brings you wireless Internet access within minutes. The AirPort Setup Assistant uses your current Internet access settings to configure your wireless network settings. Once your computer is set up, launch your browser and you're online, no matter where you are located in your home or classroom.

Security

AirPort offers password protection and encryption capabilities to deliver a level of security equal to that offered by traditional cabled networks. Users are required to enter a password to log on to the wireless network—and, optionally, an additional password for access to each computer on the network. When transmitting information, AirPort uses 40-bit encryption to scramble data, so you know your communications are secure.

Only from Apple

Only Apple could make wireless networking this powerful and this simple, from integrated hardware to seamless software. Not only does AirPort give you the freedom to work and play where you like, it offers new ways to increase communication and collaboration, for more productive and creative work.



Product Details

AirPort Specifications

Wireless data rate

- Up to 11 Mbps

Range

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

Frequency band

- 2.4 GHz

Radio output power

- 15 dBm (nominal)

Compatibility

- IEEE 802.11HR Direct Sequence Spread Spectrum (DSSS) 11 Mbps and 5.5 Mbps draft standard
- IEEE 802.11 DSSS 1 and 2 Mbps standard

Included software

- AirPort Setup Assistant to configure the computer for network access and set up an AirPort Base Station or Software Base Station
- AirPort application to change networks and check signal strength
- AirPort Control Strip module to quickly measure signal strength and change networks
- AirPort Utility for base station network administration

AirPort Card

Order No. M7600/A

Environmental requirements

- Operating temperature: 32° to 95° F (0° to 35° C)
- Storage temperature: -13° to 140° F (-25° to 60° C)
- Relative humidity (operating): 95% maximum
- Relative humidity (storage): 95% maximum, noncondensing
- Operating altitude: 0 to 10,000 feet (0 to 3,048 m)
- Maximum storage altitude: 15,000 feet (4,572 m)

AirPort Base Station

Order No. M7601/A

Interfaces

- RJ-11 connector for built-in 56K V.90 modem
- RJ-45 connector for built-in 10BASE-T Ethernet
- Wireless
- AC power

Mounting options

- Desktop
- Wall mount (bracket included)

Electrical requirements

- U.S. and Japan
 - Line voltage: 100–120V AC
 - Frequency: 50–60 Hz
- U.K., Europe, Australia
 - Line voltage: 200–240V AC
 - Frequency: 50–60 Hz

Environmental requirements

- Operating temperature: 32° to 95° F (0° to 35° C)
- Storage temperature: -13° to 140° F (-25° to 60° C)
- Relative humidity (operating): 20% to 80%
- Relative humidity (storage): 10% to 90%, noncondensing
- Operating altitude: 0 to 10,000 feet (0 to 3,048 m)
- Maximum storage altitude: 15,000 feet (4,572 m)

Size and weight

- Diameter: 6.9 inches (175 mm)
- Height: 3.2 inches (80 mm)
- Weight (without wall mount bracket): 1.65 pounds (750 grams)

The AirPort Base Station is recommended for up to 10 users. It includes a base unit, external power supply, telephone cord, wall mount bracket, and complete software.

System Requirements

- An AirPort-compatible Macintosh computer
- At least 32MB of RAM
- Mac OS 8.6 or later

Purchasing Options

You can purchase a Macintosh computer from the online Apple Store with the AirPort Card preinstalled. You can also purchase the AirPort Card separately from the Apple Store or your local reseller. For up-to-date information, visit www.apple.com/store.

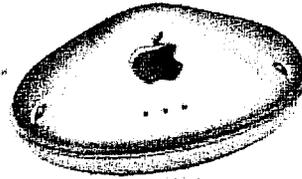
For More Information

For more information about these products, or to find out where to buy Apple products, visit www.apple.com/products on the World Wide Web or call 800-538-9696. To purchase these products from the Apple Store, go to www.apple.com/store.

Apple stands behind its products with world-class service and support. Offering quality parts, extended hardware service options, phone support, and support via the internet, we provide you with support choices that meet your needs. For more information, visit www.apple.com/support.

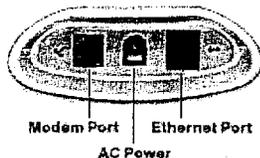
Apple Computer, Inc.

1 Infinite Loop
Cupertino, CA 95014
408-996-1010
www.apple.com



AirPort wireless technology provides fast relief from the biggest problem about being wired.

Tech Specs	At School	At Home	Network
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Like the base station of a cordless phone, the AirPort Base Station uses a physical connection to access the Internet and wireless connections to communicate with AirPort-enabled computers. The base station has an RJ-11 connector for the built-in 56-kilobit-per-second V.90 modem.* There's also an RJ-45 connector for the built-in 10BASE-T Ethernet connection that allows you to connect via Ethernet.

What do you think? Participate in a [survey](#) of AirPort Base Station customers.

1. _____

2. _____

3. _____

Say goodbye to that unsightly tangle of wires and cable snaking across your floor — and forget having to use your computer in an inconvenient spot just because that's where your phone jack or Ethernet port happens to be. Now there's an affordable way to bring the Internet to your home or classroom — without cables, additional phone lines or complicated networking hardware.

It's called AirPort, the cutting-edge wireless technology that delivers fast, reliable communications between multiple computers and the Internet. And, as thousands of Mac users in schools and homes have discovered to their

AirPort 1.2 Update
Download this new update, which delivers enhanced performance, compatibility, and new features including support for closed networks, plus the full version of the software base station.



Affordably priced
The AirPort Card has a suggested retail price of \$99. The AirPort Base Station has a suggested retail price of \$299. You can buy them from the Apple Store.

Working Wireless
Mounting a camera and PowerBook above the basket at a Los Angeles Lakers playoff, Mark J. Terrill of the Associated Press describes how AirPort enabled remotely shooting hoop-view photos. "Just as the transfer started, a line of Laker Girls set themselves up three feet in front of me ... I glanced back down at the PowerBook

See how AirPort works with this QuickTime [demo](#). (200 K)

Very Big AirPort

Can it scale? Eighteen linked AirPort base stations delivered email and the Internet to as many as 450 simultaneous users in a two-square-block area at Apple's Worldwide Developers Conference 2000.



EarthLink

Apple and [EarthLink](#) have teamed up to provide reliable high-speed Internet access to Mac customers. Enjoy unlimited Internet access, Mac-friendly tech support, chats and instant messaging, a member magazine that keeps you up to date on web trends, a personal start page, tons of free software and more. And, best of all, AirPort works great with EarthLink.

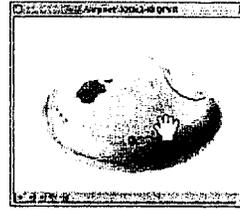
delight, AirPort lets you use your [iBook](#), [iMac](#), [PowerBook](#) or [Power Mac G4](#) for work, play, sending and receiving email, and getting on the Internet — wirelessly — from anywhere in your home, dorm or classroom. Without cables, or additional phone lines, or complicated networking hardware. AirPort enables several users to be online at the same time — simultaneously surfing different web sites, accessing e-mail and swapping files — through a single Internet service account.

Powerhouse performance

The result of an 18-month collaboration between Apple and Lucent Technologies, AirPort is changing the way people work and play and communicate. Because AirPort is a powerhouse in the performance department. The wireless data rate, for instance, is a scorchingly fast 11 megabits per second — up to 10 times faster than the most popular home networking products — for up to 10 simultaneous users per base station. With AirPort, you can wirelessly transfer files from your computer to another AirPort-equipped iBook, iMac, PowerBook or Power Mac G4 from up to 150 feet away — no floppy disks required. And as for games, imagine the possibilities: not only can you play multiplayer games with family members around the house, you can even play with friends across the street.

Based on the IEEE 802.11

and again to my surprise the transfer continued." Terrill's article appears in Sports Shooter, an Internet publication for pro sports photographers.



See the [AirPort Base Station](#) in QuickTime VR.

 [AirPort Fact Sheet](#)
Requires Adobe [Acrobat Reader](#)

 [AirPort FAQ](#)
Requires Adobe [Acrobat Reader](#)

 [AirPort Wireless Networking: A Technical Overview](#)
Requires Adobe [Acrobat Reader](#)

Direct Sequence Spread Spectrum (DSSS) worldwide industry standard, AirPort allows for interoperability with other 802.11-based equipment. And because AirPort uses radio signals to communicate through solid objects (unlike infrared signals that require an unobstructed line of sight to make a connection), you can surf the Internet even when good ol' Sparky is standing in front of you wagging his tail, blocking your view of the base station.

Easy to set up and easy to use

Because Apple designed the hardware and software — and designed them to work smoothly together — you'll find AirPort simple to set up and use. Start with the AirPort Card and the AirPort Base Station (similar to the base station of your cordless telephone, the AirPort Base Station includes a 56K modem for your phone line, plus an Ethernet port in case you have access to an Ethernet network).

You can install an AirPort Card on your computer and access the Internet via the AirPort Base Station, or AirPort-enable an iBook, iMac, PowerBook or Power Mac G4 by installing the new AirPort software base station.

* Actual modem speeds lower; speed depends on connection rate and other factors.

[Home](#) > [Hardware](#) > PowerBook



AirPort has a way of making you feel at home.

Tech Specs	At School	At Home	Network
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Chicago Tribune

"AirPort lets up to 10 AirPort-equipped Macs connect to the Internet. And they can do so from about 150 feet away. That means you can jump wirelessly onto the Internet from just about anywhere in your house."

—James Coates
[Chicago Tribune](#)

"It configures easily, in most cases, and it works well. It's ideal for networking two or more desktop Macs, or for roaming with a portable Mac while staying online."

—Julio Ojeda-Zapata
[St. Paul Pioneer Press](#)

One of the first things AirPort does is give you your place back—or at least an appreciable part of it. Because from now on you won't have to shudder inwardly every time you see that ugly tangle of wires—and you won't have to go out of your way to avoid tripping over them, either.

Esthetic considerations aside, AirPort really comes into its own when you have just one Internet account* and everyone wants to get online simultaneously: it lets you share a single Internet connection among the Macs in your home. For instance, Mom can tour the Louvre, while Dad traces an ancestor from an online repository of 600 million names. And Sis can check out the American Memory film collections in



While the Windows world scrambles to catch up with AirPort, Apple offers its customers a superb way to share Internet connections among a house, or school, full of desktops and laptops, all of them blissfully untethered from the phone wires and power bricks needed for conventional analog and DSL modems.



AirPort for the home

AirPort is an ideal solution for families who want to share a single Internet connection—for surfing the web, accessing email, or enjoying multiplayer games. Because AirPort was designed for home and education users, it's simple to set up and easy to use.

Imagine surfing the web from your sofa. Checking email from your dining room. Enjoying a multiplayer game from your deck. With a transmission

QuickTime, while Junior explores a website that shows how stuff works. All on the same line, at the same time.

Snarling wires

Before wireless technology, the way to create a home network was to wire computers together. To route cables, you'd drill holes in walls and guide the cables through. To share files, you had to learn complicated networking software. And to provide Internet access to a second computer, you had to order a second phone line.

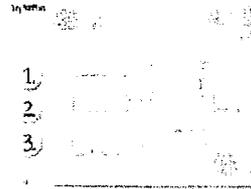
Apple offers a much easier and more affordable alternative. AirPort is an 11-megabit-per-second wireless local area network (LAN) technology that provides efficient, reliable wireless communication between multiple computers and the Internet. With no pesky cables to tie you down.

Fast and flexible

With AirPort, you can access the Internet from wherever you want in your house—not just from your network connection. AirPort delivers high-speed file sharing at transfer rates up to 10 times faster than most home networking products. It brings you fast, secure, and affordable Internet access while allowing multiple computers to share a single Internet connection simultaneously.

Two things make AirPort the coolest thing to hit the home

radius of approximately 150 feet—and more in some environments—AirPort lets you put the computer where you want, not just where the phone jack is located.



See how AirPort works with this QuickTime [demo](#). (200 K)

since air-conditioning: the AirPort Card and the AirPort Base Station. The AirPort Card is available for all new Macintosh computers—[iMac](#), [iBook](#), [Power Mac G4](#) and [PowerBook](#). The same card is used in all AirPort-ready computers, and you can install this credit-card-size card yourself. It comes with all the software needed to set up and operate an AirPort network.

AirPort for the home

AirPort is an ideal solution for families who want to share a single Internet connection—for surfing the web, accessing email, or enjoying multiplayer games. Because AirPort was designed for home and education users, it's simple to set up and easy to use.

Imagine surfing the web from your sofa. Checking email from your dining room. Enjoying a multiplayer game from your deck. With a transmission radius of approximately 150 feet—and more in some environments—AirPort lets you put the computer where you want, not just where the phone jack is located.

*Requires an account with an Internet service provider.

[Home](#) > [Hardware](#) > [Airport](#) > Home

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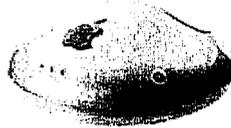
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1-800-MY-APPLE



\$99 makes you a card-carrying member of the digerati.

AirPort Card, that is. And, come to think of it, you could probably pay for the AirPort Base Station with what you'd save by not having to install a second phone line.



AirPort Specifications

Wireless data rate

- Up to 11 Mbps

Range

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

Frequency band

- 2.4 GHz

Radio output power

- 15 dBm (nominal)

Compatibility

- IEEE 802.11HR Direct Sequence Spread

AirPort Base Station

Order No. M7601/A

Interfaces

- RJ-11 connector for built-in 56K V.90 modem
- RJ-45 connector for built-in 10BASE-T Ethernet
- Wireless
- AC power

Mounting options

- Desktop
- Wall mount (bracket included)

Electrical requirements

AirPort Card

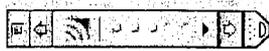
Order No. M7600/A

Environmental requirements

- Operating temperature: 32° to 95° F (0° to 35° C)
- Storage temperature: -13° to 140° F (-25° to 60° C)
- Relative humidity (operating): 95% maximum
- Relative humidity (storage): 95% maximum, noncondensing
- Operating altitude: 0 to 10,000 feet (0 to 3,048 m)

Spectrum (DSSS) 11 Mbps and 5.5 Mbps draft standard

- IEEE 802.11 DSSS 1 and 2 Mbps standard



Included software

- AirPort Setup Assistant to configure the computer for network access and set up an AirPort Base Station or Software Base Station
- AirPort application and AirPort Control Strip module to quickly measure signal strength and change networks
- AirPort Utility for base station network administration

- U.S. and Japan
 - Line voltage: 100–120V AC
 - Frequency: 50–60 Hz
- U.K., Europe, Australia
 - Line voltage: 200–240V AC
 - Frequency: 50–60 Hz

Environmental requirements

- Operating temperature: 32° to 95° F (0° to 35° C)
- Storage temperature: –13° to 140° F (–25° to 60° C)
- Relative humidity (operating): 20% to 80%
- Relative humidity (storage): 10% to 90%, noncondensing
- Operating altitude: 0 to 10,000 feet (0 to 3,048 m)
- Maximum storage altitude: 15,000 feet (4,572 m)

Size and weight

- Diameter: 6.9 inches (175 mm)
- Height: 3.2 inches (80 mm)
- Weight (without wall mount bracket): 1.65 pounds (750 grams)

The AirPort Base Station is recommended for up to 10 users. It includes a base unit, external power supply, telephone cord, wall mount bracket, and complete software.

- Maximum storage altitude: 15,000 feet (4,572 m)

System Requirements

- An AirPort-compatible Macintosh computer
- At least 32MB of RAM
- Mac OS 8.6 or later

Purchasing Options

You can purchase a Macintosh computer from the online Apple Store with the AirPort Card preinstalled. You can also purchase the AirPort Card separately from the [Apple Store](#) or your local reseller.

[Home](#) > [Hardware](#) > [Airport](#) > Specs

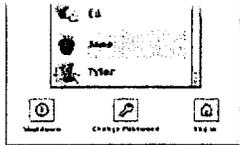
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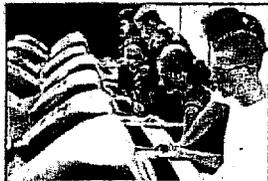
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Class Act.



Just for network administrators

Although AirPort was designed to be simple to set up and easy to use, it also contains many advanced network administration features for managing larger networks. For instance, it offers password access control and encryption. Users are required to enter a password to log on to the AirPort network — and, optionally, an additional password for access to any other computer on the network. When transmitting information, AirPort uses 40-bit encryption to scramble data.



Now you can create a wireless network in your classroom with AirPort-enabled computers and an AirPort Base Station.

Suddenly, the Internet is everywhere. With AirPort Base Stations installed throughout as part of the network infrastructure, schools can offer wireless Internet access in classrooms, lecture halls and libraries. And because AirPort-enabled iBooks, iMacs, PowerBooks and Power Mac G4s can connect wirelessly with each other, today's classroom can be anywhere the class happens to be — even under a tree.



Forget expensive retrofits

By installing AirPort Base Stations in college classrooms, lecture halls or auditoriums, students and faculty can collaborate wirelessly in whole new ways. Simply plugging an AirPort Base Station into an existing network port enables the wireless exchange of files, email and assignments — all at Ethernet speeds. So administrators can stop worrying about disruptive — and expensive — hard-wired Ethernet classroom retrofits and focus on the learning process instead.



Connect PC notebooks
 Because AirPort complies with IEEE 802.11 (the worldwide industry standard for wireless communications that allows for interoperability among 802.11-compliant equipment), a number of companies sell products that allow a PC notebook to be used in an AirPort network.



With AirPort, faculty and students can work together on group projects or class assignments without being close to a network connection. Projects that require research on the Internet don't need to wait for scheduled time in the computer lab. With AirPort, teachers can bring a mobile computer lab to the classroom, student union, library, or even outdoors.

No longer does a class have to go to the computer lab to work on projects or do research on the Internet. With AirPort, the network administrator can set up a mobile computer lab on a cart that goes to the students instead. Whenever the mobile computer lab is wheeled into a classroom, the base station is ready to be plugged into the wall with no additional work required by the teacher. When the computers are started up, the AirPort software detects the base station in the classroom — and there you have your network.



Examples abound

As 15,000 K-12 educators learned at the 2000 Florida Educational Technology Conference (FETC) in Orlando, AirPort wireless technology enables teachers to use computers in more learning situations, more effectively — without needing a Pentagon-sized budget, or spending more



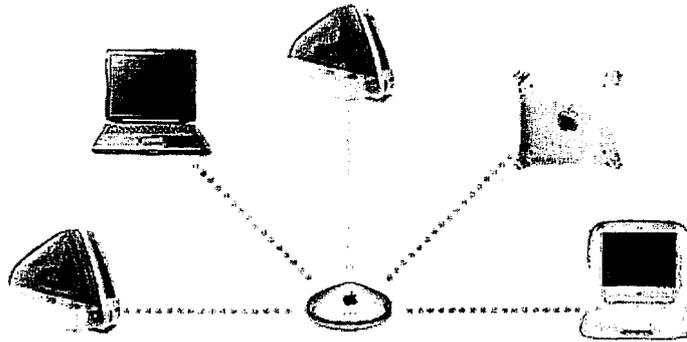
Extending Ethernet connectivity

AirPort is a great way to extend Ethernet connectivity in cases where retrofitting is problematic. One of the biggest problems a school faces is what to do about existing facilities. Many schools must address asbestos issues, inflexible wiring configurations or architectural features that need to be protected. In such cases, AirPort eliminates the need to run Ethernet cabling into every classroom. By locating a base station in a lab or hallway near a classroom, you can provide wireless networking to computers throughout the school.

time on manuals than they do on their course materials.

In Colorado's Douglas County School District, for example, students at Saddle Ranch Elementary School are connecting their AirPort-enabled iBook computers to a wireless network. The Atchison School District in Atchison, Kansas, looks forward to extending its wireless networking capabilities. Incidentally, the district's test scores have gone up. Coincidence? Meanwhile, Lakeside Academy of Math, Science & Technology — a 530-student K-5 magnet school in Hamilton County, Georgia — is reducing cable clutter with 37 iBooks and 10 AirPort Base Stations. And 21st Century Academy, a magnet school in Hamilton County, Tennessee, has created a wireless network for its 43 iBooks with five strategically located AirPort Base Stations. AirPort also is slated to play a role in North Carolina State's Distance Learning Smart Classroom project. The college's MobileCart program will feature 20 wireless laptops on a cart—and connected to two AirPort hubs. The MobileCart can be rolled into any classroom so that instructors can use the Internet to teach from wherever they are.

[Home](#) > [Hardware](#) > [Airport](#) > Classroom



Creating an AirPort network is as easy as using a Macintosh.

AirPort makes it easy
We've made AirPort networking as easy as using a Macintosh. Once you've set up your computers to access the Internet via modem or Ethernet and tested the connection, you're ready to go:

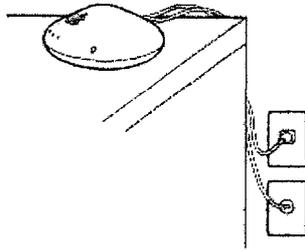


Step 1: Pop an AirPort Card
in a new iBook, iMac, PowerBook or Power Mac G4. It's simple — the card snaps right into place.
(Note: third-party 802.11-

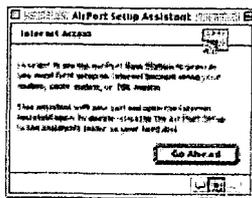
Most first-time iMac and iBook users successfully connect to the Internet within 15 minutes of taking their computers out of the box. That's great, but connecting to the Internet wirelessly with AirPort is just as easy — even when you have more than one computer at home or in the classroom, and more than one person needs to get online at the same time, on the same line.

Now's the perfect time for an AirPort wireless network, the simple, affordable way to bring the Internet to every room in your home — and

compatible wireless networking PC cards are available for PowerBooks that are not AirPort-ready.)

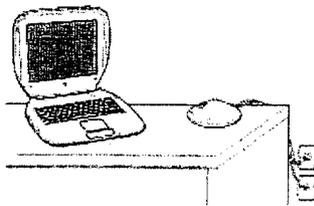


Step 2: Plug an AirPort Base Station into a telephone line or Ethernet connection, and to a power source. (If connecting to Ethernet, simply plug the Ethernet cable into the RJ-45 port on your base station.)



Step 3: Step through the AirPort Setup Assistant to configure the base station for Internet access.

Now smile: you've earned your wings — you've created an AirPort wireless network.



every desk in the classroom. With no fuss and — better, still — no cables.

Consider the benefits: Until recently, if you wanted to get on the Internet with more than one computer, you basically had two choices. You could order another phone line for the second computer, plus (if you didn't want to have to wait your turn to go online) a second Internet account. Or you could hook up your computers together in a wired network. The most unappealing aspect of wiring computers together is — you guessed it — the wiring.

AirPort offers a smarter alternative. Instead of using traditional cabling to create a network, AirPort is an 11-megabit-per-second wireless local area network (LAN) technology that provides efficient, reliable wireless communication between multiple computers and the Internet. What's more, AirPort enables everyone at home to simultaneously surf different web sites and access e-mail through a single Internet service account. There's no more waiting for your turn to dial into the Internet, no additional telephone lines to install, and no complicated setups.



“The AirPort Base Station works with any type of Internet connection. We tested both dial-up and cable connections, and both worked flawlessly. We were able to

carry our iBooks around the house with no dead spots or breaks in connectivity.”

—Les Freed
PC Magazine



“As a wireless network, Apple’s new system worked as advertised. We got close to the 150-foot radius promised, and the performance and connectivity was great. It’s fantastic to be able to roam around a house or small office with an iBook, surfing the Net with ease.”

—Jim Louderback
Editorial Director ZDTV

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