



Guide for PowerBook® Users



Introduction

This user's guide explains how to install and configure the Aria™ extreme wireless CardBus card in your compatible Macintosh PowerBook computer.

The Aria extreme is a cross-platform, high-speed, wireless LAN adapter card. It is compatible with Apple AirPort® Extreme base stations and other 802.11g devices, is capable of data transfers of up to 54 Mbps, and is backward-compatible with 802.11b devices.

PowerBook Requirements

At this printing, the Aria extreme is compatible with PowerBook G3 models and the Titanium PowerBook G4 with 15" screen, and requires Mac OS X Version 10.2.6 or higher, and AirPort 3.1 or higher.

For Additional Information

For additional information regarding setup and configuration of networks and security, and working with Windows-based systems, refer to AirPort help files and Apple's AirPort online support pages.

Visit Our Web Site

For the most current product information and online support files, visit the Sonnet web site at www.sonnettech.com. Remember to register your product online at <http://registration.sonnettech.com> to be informed of future upgrades and product releases.

Getting Started

This section describes the physical aspects of the Aria extreme card.

- **Activity indicator** - Lights when the Aria extreme is turned on (Figure 1).
- **Link indicator** - Flashes when data is transmitted between the Aria extreme and another wireless LAN card or an Access Point such as an AirPort Extreme base station (Figure 1).



Figure 1

- **MAC number** - Also known as the AirPort ID, this number is used in a wireless networking administration program to limit access to a closed network (Figure 2).

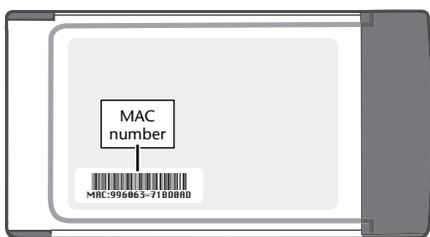


Figure 2

Special Instructions for Users with an Internal AirPort Card-Equipped PowerBook

If your PowerBook already has an internal AirPort card installed, you do not need to remove the card in order to use the Aria extreme; just follow the steps below. Otherwise, skip to the next section.

1. Confirm your PowerBook is running Mac OS X Version 10.2.6 or later, and is using AirPort 3.1 or later; if necessary, update the software using Software Update in System Preferences.
2. Shut down your computer, and then insert the Aria extreme, label up, into your PowerBook's PC card slot; make sure the card is level. Gently push the card all the way in until it stops. **Note:** *The Aria extreme will not work unless it is installed in the slot before you start up your computer.*
3. Start up your PowerBook.
4. Click on the AirPort Status icon in the Finder menu bar; if AirPort is listed as Off, turn it on. From the drop down menu, select your AirPort network, and proceed as usual; the Aria extreme overrides the internal AirPort card (Figure 3).



Figure 3

Note: In order to use the internal AirPort card again, you must either shut down your PowerBook and eject the Aria extreme, or eject the card and restart your machine. Until you do one of the preceding, the internal card will remain disabled.

Configure Your PowerBook

Part 1 - Enable AirPort on Your PowerBook

Because the Aria extreme uses Apple AirPort driver software, configuring your system to work with the card is very simple.

1. Confirm your PowerBook is running Mac OS X Version 10.2.6 or later, and is using AirPort 3.1 or later; if necessary, update the software using Software Update in System Preferences.
2. Before you install the Aria extreme, set up (or configure) your AirPort Base Station or other wireless hub.
3. If you will be connecting to a closed network, obtain the network's name and password; you'll need to enter this information while you configure your PowerBook. If access to the closed network is restricted to specific users, give your network administrator the MAC number from the back of your Aria extreme card before you continue, so you can be added to the list of users with access privileges.
4. Insert the Aria extreme, label up, into your PowerBook's PC card slot; make sure the card is level. Gently push the card all the way in until it stops; an icon will appear in the menu bar (Figure 4).



Figure 4

4

Enable AirPort on Your PowerBook (continued)

5. Launch the AirPort Setup Assistant utility (located in the Utility folder within the Applications folder). If you are instructed to turn on your AirPort card, click OK (Figure 5).



Figure 5

6. Select "Set up your computer to join an existing AirPort Network," and then click Continue (Figure 6).

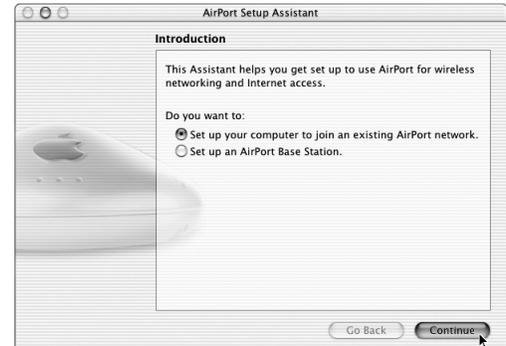


Figure 6

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Enable AirPort on Your PowerBook (continued)

7. The AirPort Setup Assistant will locate nearby wireless networks; choose the network you want to use from the drop-down menu and then click Continue (Figure 7).



Figure 7

8. If the network you've chosen is protected, you will be requested to enter a password (Figure 8). If this is the case, enter the password and click Continue.

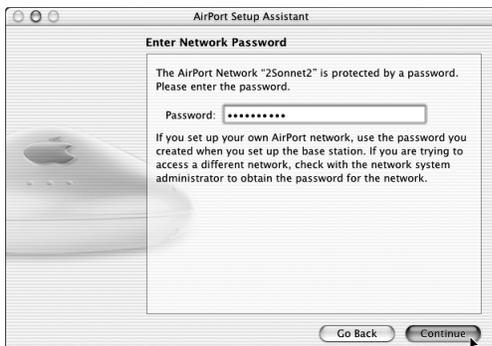


Figure 8

6

Enable AirPort on Your PowerBook (continued)

9. The AirPort Setup Assistant will give you the option to accept the settings you've entered or go back; click Continue (Figure 9).



Figure 9

10. Click Done when the AirPort Setup Assistant is finished (Figure 10).

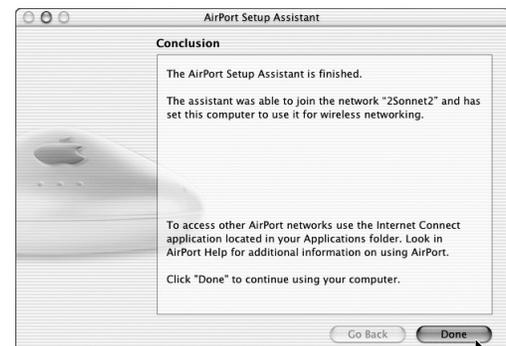


Figure 10

7

Configure Your PowerBook Part 2 - Set Network Settings

1. From the Apple Menu, select System Preferences.
2. Click on the Network icon at the top of the window, and then select AirPort from the Show: drop-down menu (Figure 11).

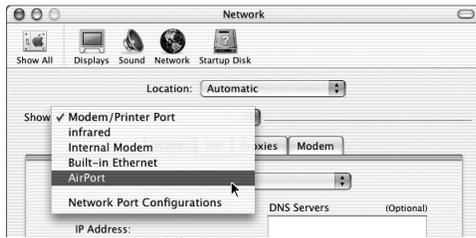


Figure 11

3. Click on the AirPort tab to reveal and adjust settings (Figure 12).

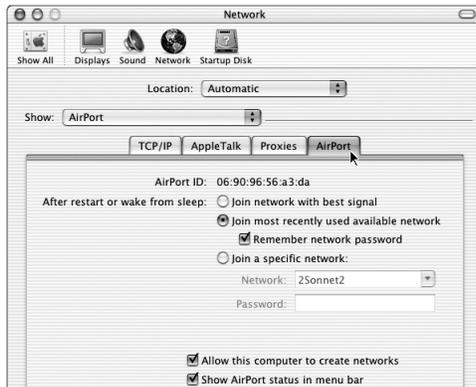


Figure 12

8

Enable Internet Access Through Aria extreme (continued)

4. Quit the Internet Access application; you should now be able to access the Internet through the Aria extreme (provided you are within range of a base station or access point).
5. In the right corner of the menu bar at the top of the screen, you will see the AirPort status indicator (Figure 15). This icon indicates signal strength of your selected network; click on the icon and choose items to change settings and open the Internet Access application.



Figure 15

Configure Your PowerBook Part 4 - Create a Computer to Computer Network

You can create a network of two or more computers and share files, so long as each is equipped with a 802.11b or 802.11g wireless LAN card, such as the Aria extreme.

1. From the Apple Menu, select System Preferences.
2. Click on the Sharing icon in the middle of the window, and then click the Start button under "File Sharing Off" (Figure 16).



Figure 16

10

Configure Your PowerBook Part 3 - Enable Internet Access Using Aria extreme

In order to access the Internet through the Aria extreme, you will need to change settings in the Internet Connect application.

1. Launch the Internet Connect application (located in the Applications folder).
2. Click on the Configuration drop-down menu and select AirPort (Figure 13).

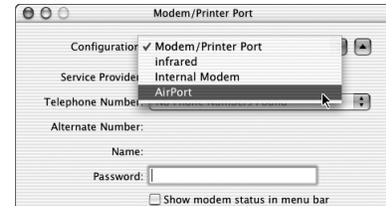


Figure 13

3. After selecting AirPort, you will see basic information regarding your setup (Figure 14). If it is not checked, click the box next to "Show AirPort status in menu bar."

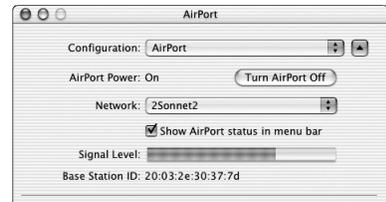


Figure 14

9

Create a Computer to Computer Network (continued)

3. Close System Preferences.
4. Click on the AirPort status icon and select "Create Network..." (Figure 17).



Figure 17

5. Enter the required information, including the name you choose for the Computer to Computer network, and then click OK (Figure 18). Note that you must use the same name and channel settings for the other computer.



Figure 18

11

Create a Computer to Computer Network (continued)

6. From the Finder menu, select Go > Connect to Server (Figure 19).



Figure 19

7. In the *Connect to Server* window, choose the other computer in your Computer to Computer network, and then click Connect (Figure 20); the other computer's drive(s) will appear on your desktop.

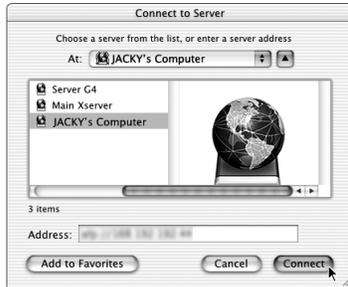


Figure 20

Technical Specifications	
Software Requirements	Mac OS - Mac OS X Version 10.2.6 or later, AirPort drivers version 3.1 or later Windows OS - Windows 98SE, Me, 2000, or XP
Hardware - Compatible Models	Mac OS - Macintosh PowerBook G3, PowerBook G4 (Titanium 15") Windows OS - Notebook and laptop computers with 32-bit CardBus slot
Aria extreme Card Specifications	Electrical Interface - 3.3V, 32-bit CardBus specification Dimensions - 4 x 2.2 x 0.2 inches (101 x 54 x 3.3 mm) Weight - 1.44 ounces (40.82 g)
Radio Specifications	
Operating Frequency	2.412-2.497 GHz
Operating Channels	802.11b - North America: 11, Japan: 14, Europe (ETSI): 13 802.11g - North America, Japan, Europe (ETSI): 13
Security	Hardware 64/128-bit WEP engine, WEP weak key avoidance, TKIP, hardware AES engine supporting CCM and OCB, 802.1x, SSN
Output Power	15 dBm maximum
Data Transmission Rates	802.11b - 11 Mbps maximum. Auto-ranging 1, 2, 5.5, and 11 Mbps 802.11g - 54 Mbps maximum. Auto-ranging 6, 9, 12, 18, 24, 36, 48, and 54 Mbps
Coverage Area (typical)	802.11b - Up to 60 M at 11 Mbps, up to 125 M at 1 Mbps 802.11g - Up to 20 M at 54 Mbps, up to 75 M at 18 Mbps
Receiver Sensitivity	-80 dBm at 6 Mbps
Environmental Specifications	
Operating Temperature	0°-158° F (0°-70° C)
Storage Temperature	-20°-194° F (-4°-90° C)
Relative Humidity	5-95%
Wireless Standards Compliance	IEEE 802.11b, IEEE 802.11g

Limited Warranty

Sonnet Technologies, Inc. warrants that its product(s) shall be free from defects in materials and workmanship for a period of three years following the date of original purchase. For complete warranty information, go to www.sonnettech.com/support/warranty.

Contacting Customer Service

The Sonnet web site located at www.sonnettech.com has the most current support information and technical updates.

Before you call Sonnet Customer Service, please check our web site for the latest updates and online support files, and check your user's guide for helpful information. When you call Sonnet Customer Service, have the following information available so our customer service staff can better assist you:

- Product name
- Date and place of purchase
- Computer type and model
- Operating system and version

If further assistance is needed, please contact us at:

Sonnet Customer Service:

Tel: 1-949-472-2772

(Monday-Friday, 7 a.m.-5 p.m. Pacific Time)

Fax: 1-949-457-6349

E-mail: support@sonnettech.com

Online Service Form: <http://serviceform.sonnettech.com>