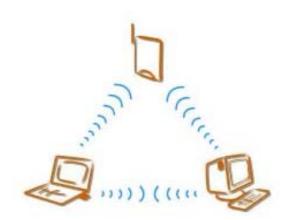


Wireless LAN PC Card

AWL-100

User Manual



Version 1.1 June 2002



Notice I

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Notice II

FCC Warning

The AWL-100 compiles with Part 15 of the FCC rules.

Operation is subject to the following two conditions.

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note:

The AWL-100 has been tested and found to comply with the limits for a Class B digital device and a low power transmitter, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

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Chapter 1. Introduction

Thank you for purchasing a BENQ AWL100 Wireless LAN PC Card. The AWL100 Wireless LAN PC Card lets you connect to your network and the Internet without needing to be tethered to a fixed location by a physical cable, while still getting the same data transfer rates as with traditional Ethernet. In addition to allowing you to enjoy the wonders of wireless networking, the AWL100 provides two operating modes—ad-hoc mode (peer-to-peer) and infrastructure mode (station-to-AP)—to meet to your varying needs at different purposes.





I-I Product Kit

Before installation, make sure that you have the following items:

- ♦ AWL100 Wireless LAN PC Card
- Software CD containing user manual and utility
- Quick Start Guide
- Warranty card

I-2 System Requirements

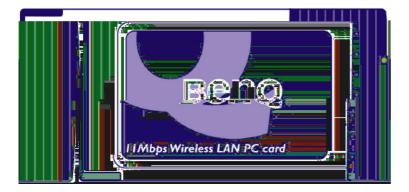
Before using your AWL100, please check that you have the following required items:

- Notebook PC with PCMCIA Type II slot and CD-ROM drive
- Microsoft Windows 98SE/ME/2000/XP operating system

I-3 Mechanical Description

Top panel of the PCMCIA

The following table provides an overview of each LED activity:



	Activity	Description
	Blink Twice	When insert to notebook
LED Definition	Blinking	Re-scan with other stations or AP
	Solid Green	Link and activity

Chapter 2. Installation

2.1 Driver Installation

Insert AWL100 PCMCIA Adapter into your PC, and then Windows will show the dialog – Add New Hardware Wizard.



Select Search for the best driver for your device. (Recommended). and press Next button.



Add New Hardware Wiz	ard
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search.
	< <u>B</u> ack Next > Cancel

Select **Specify a location** and browse the BenQ Wireless LAN CD to find AWL100. For example, if your CD-ROM has a drive D and you want to install the English version of driver, the location is D:\AWL100\English.

Add New Hardware Wiz	ard
Add New Haldwale wiz	Windows driver file search for the device: BENQ AWL100 Wireless LAN PCMCIA Adapter Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: D:\AWL100\ENGLISH\AWLNIC.INF
	< <u>B</u> ack Next > Cancel

Windows has found AWL100 PCMCIA Adapter. Press **Next** button.



Copying Files	
Source: D:\AWL100\English\WIN9X\AWLI0C.VXD Destination: www.character.etg.exec.edu.com	
93%	
Cancel	

Please wait while coping files.



Press Finish.

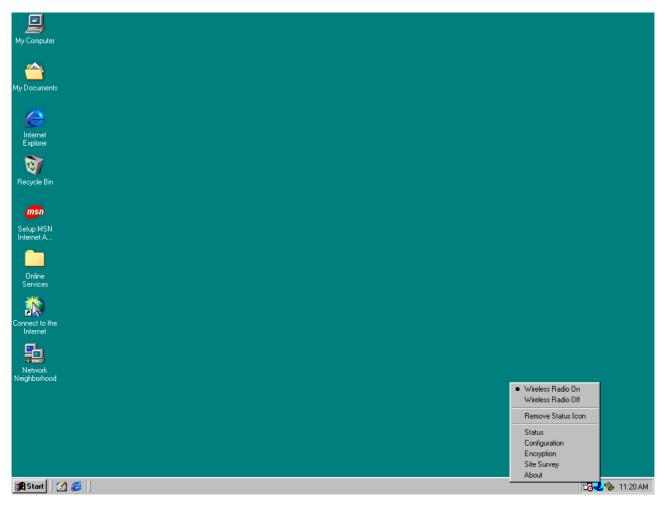


Press Yes and restart your computer.



Chapter 3. AWL100 Wireless Settings

You can launch AWL100 Wireless Settings utility by clicking the icon or from Control Panel.





🗟 Control Panel						
<u> </u>	tes <u>H</u> elp					<u>8</u>
Back Forward Up	y Cut	Copy Pas		Delete F		₩ . ews
🛛 Address 🐼 Control Panel						•
Control	Accessibility Options	Add New Hardware	Add/Remove Programs	2 AWL Settings	Date/Time	Display
Panel	Aa	ø.	E			Ø
AWL Settings Changes network card configuration settings.	Fonts	Game Controllers	Internet Options	Keyboard	Modems	Mouse
<u>Microsoft Home</u> Technical Support	Multimedia	Network	ODBC Data Sources (32bit)	関 🍤 Passwords	PC Card (PCMCIA)	Power Management
	Finters	Regional Settings	Sounds	System	And the second s	Ga Users
	Chan	ges network car	d configuration s	ettir 🛄 My Co	mputer	

3.1 Status

Default - AWL Wireless Settings	X
Status Configuration Encryption Site Survey Abo	
State: Associated - 00:30:0D:01:CA:33	Beng
Current Tx Rate: 11 Mbits/sec	AWL
Current Channel: 1 Disable Radio	<u>R</u> escan
Throughput (bytes/sec): Tx: 0	Rx: 630
Link Quality: Excellent (100%)	
Signal Strength: Excellent (100%)	
OK Cano	cel <u>A</u> pply

Status

The current state of the driver is displayed in this screen. If the state reveals "Associated," it means that the normal flow of operation is in Infrastructure mode. This shows that the PC is already connected to access point and BSSID is also shown in the form of hex digits. At the same time, the networking is available for the device.

In "Scanning" state, it means that the node cannot detect the SSID to an access point within range and is searching for an available access point. Also, if the driver failed to initiate for some unknown reasons, this field will display an error message.

Rescan

The driver will restart and beginning its Connection Procedure if the **Rescan** button is pressed. In general, the connection procedure will be different according to the Mode of the driver.

Enable / Disable Radio

This button is used to enable or disable the radio of AWL100.

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Current Tx Rate

This field shows the current transmit rate, which is being used for an active connection.

Current Channel

This field shows the current radio channel, which is being used for an active connection.

Throughput

The instantaneous wireless Receive and Transmit throughput are displayed in bytes per second in this field. Every two seconds, these values are updated.

Link Quality

This field reveals the quality of the current connection. Only when the node is in Infrastructure Mode does the Link Quality bar graph become active. The bar graph displays the link quality between the node and its Access Point. Over the bar graph, a label summarizes the quality of the link, which can take on one of the following values:

```
"Not Applicable"
"Poor"
"Fair"
"Good"
"Excellent"
```

When the Link Quality becomes "Poor," the driver will start to look for a better Access Point. As a result, the Link Quality is a very good indicator of receiving and transmitting errors over the radio.

Signal Strength

The Signal Strength bar graph only becomes active, when the node is in Infrastructure Mode. This bar graph shows normalized signal strength as reported by the radio, averaged over all frames over 100 bytes long, which are received from the Access Point.

Status information about the radio link is displayed in this tab. Detailed description should be placed in this field.



3.2 Configuration

Default - AWL W	ireless Settings	×
Status Configura	ation Encryption Site Survey At	
Profile Name:	Default 💌	Beno AWL
Network <u>N</u> ame:	ANY	
Network <u>T</u> ype:	Access Point Peer-to-Peer Channel: 3	
Transmit <u>R</u> ate:	Fully Automatic	<u>D</u> efaults
	OK Ca	ncel <u>Apply</u>

Several fields illustrated as following are offered by the

Configuration Tab. Operating parameters of the driver can be viewed or changed here. Under the circumstances, changes to any of the parameters in this panel can be applied to the driver without the need to reboot the PC.

- **Defaults**: It restores each field in the panel to its default value by pressing this button. However, before the default values are saved or loaded to the driver and registry, the **Apply** button or **OK** button must be pressed.
- **Apply**: Only when one of the fields has been modified does this button become active. Press this button to apply the changed values to the driver and saves them to the registry for the next time when the PC boots up.

Profile Name

These settings will be stored by the given name.

NOTE



Network Name

This field shows the network name or called SSID, which your AWL100 will be associated with. If "ANY" is the name showed, it means any network name could be associated with.

Network Type

You can select from a list of supporting network types in this field. The network types displayed will have two values as following: "Access Point" and "Peer-to-Peer".

Access Point (Infrastructure)

This is an operation mode, which requires the existence of an 802.11 Access Point. Owing to the existence of the Access Point, all communication is done via the Access Point, which relays packets to other wireless Clients in the BSS as well as to nodes on a wired network such as Ethernet.

Peer-to-Peer (Ad Hoc)

This is a non-compliant mode, which will allow AWL100 cards to talk to one another without an AP.



3.3 Encryption

Encryption (WEP security): Disabled Create Keys Manually: Alphanumeric Hexadecimal Key 1: Key 2: Key 3: Key 4:	
C Create Keys Manually: Alphanumeric Hexadecimal Key 1: Key 2: Key 3: Key 4:	10
C Alphanumeric C Hexadecimal Key 1:	
Key 2: ∐se WEP Ke Key 3: 1 Key 4: 1	L
Key <u>3</u> : Key <u>3</u> :	
Key <u>4</u> :	gr:
· · · · · · · · · · · · · · · · · · ·	
C Create Keys with <u>Bassphrase</u>	
Passphrase:	

According to WEP function select, this page allows the entry of four keys for 64-bit and 128-bit encryption. Each key must consist of hex digits to be written to the driver and registry. This means that only digit number 0-9 and letters A-F are valid entries. Therefore, if entered incorrectly, the program will not write keys to a driver. You can also use Alphanumeric or Passphrase to create keys.

- Key I – Key 4

When you want to enter the keys manually, you may use these four fields. If you wish this node to match keys in a different vendor's product, this may be necessary.

- Apply

You may also update the driver with the four keys displayed in Key field by pressing this button. The keys are also written to the registry for permanent storage. This button clears all the bytes in the four keys. It's very useful when you wish to start over or enter manually.



3.4 Site Survey

SSID	Ch	BSSID	Signal	Beng
AWL700 EPR13 NESPOT	1	00:03:9D:4F:00:0A	66% 100%	A 3 A /I
AWL500 EPR2	4	00:30:0D:01:CA:33 00:03:9D:4D:00:27	76%	AWL
linksys	4 6	00:03:50:40:00:27	78%	
BenQ	7	00:04:0A:EE:AA:47	73% 100%	
BenQ	ź	00:03:9D:46:12:34	90%	<u>R</u> escan
AWL500 EPR14	ź	00:03:9D:41:00:04	30% 86%	
AWL500 PA0	ģ.	00:03:9D:4D:00:01	86%	
AWL700 EPR15	11	00:03:9D:46:10:00	76%	Join
Beng Office	11	00:03:9D:40:EE:9B	86%	2200
•			Þ	

Rescan

This button will scan all available Access Points in your neighborhood and then list their SSID, channel, BSSID, signal, WEP state and network type, respectively.

Join

Select the SSID you want to be associated with, and then press this Join button to join this network.



3.5 About

tatus Configuration Encryptio BENQ Corporation AWL Wireless LAN	Bend
Copyright BENQ Corporation	AWL
Network Driver Version: 1.01.00	Date: Jun 5 2002
- Configuration Utility Version: 1.01.00	Date: Jun 5 2002
- NIC Firmware Version: 1.04.09.00	Address: 00.03.9D.FF.FF.F1

You may learn the product version including the detail of Network Driver, Configuration Utility, and NIC firmware version from this "About" tab. When users wish to report their problems to our technical support, they must have this version number.



Chapter 4. Trouble Shooting

Question I

What should the users do when the signal icon **Cable Disconnected** appeared right after pressing the **ReScan** or **Disable Radio** button under **Peer-to-Peer** (Ad-hoc) mode?

Answer I

Please remove the BenQ AWL100 PC Card from the PCMCIA slot and re-insert the device again, and then it will connect the user back on line.

Question 2

What if the user's PC is unable to connect to the other PC right after switching the network type from access point mode to Peer-to-Peer mode?

Answer 2

Please make sure the SSID for both PC are the same and the IP address are in the same subnet. If both SSID and IP address are checked and the same, but the PC is still in disconnection mode, then please remove the BenQ AWL100 PC Card from the PCMCIA slot and re-insert the device again to connect back online.

Question 3

What if the users lost connection due to distance, but still unable to connect to each other after move both devices closer under Peer-to-Peer (Ad-hoc) mode?

Answer 3

Please remove the BenQ AWL100 PC Card from the PCMCIA slot and re-insert the device again, and then it will connect the devices back on line.

Question 4

What if the user is unable to alliance with the new association after moving from one AP service set to another under the Access Point (Infrastructure) mode?

Answer 4

Please ensure that the SSID is the same for both APs and PC. If the SSID is correct, then please press the **ReScan** button in the **Status** menu, and then it should create new association for the device with the AP.

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