

11Mbps Wireless LAN Card

Quick Installation Guide

This *Quick Installation Guide* only provides you with the basic instructions.
For more detailed information, please refer to the *Manual* file on the provided CD.

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1 System Requirements

To use the Wireless LAN Card, your computer must meet the following minimum requirements:

- ▶ Windows 98(SE)/Me/2000/XP
- ▶ 32 MB of RAM, additional memory recommended
- ▶ Standard PCMCIA slot/USB port

2 Installing the Wireless LAN Card Software

Note:

- ▶ Do not connect the Wireless LAN Card device to your computer before installing its software. If this happens, the Windows PnP function will detect the wireless device and issue a dialog box requesting its driver. Click **Cancel** to quit the wizard.
 - ▶ If you are using Windows XP, the operation system is already equipped with Wireless LAN Card Software, so you don't have to install extra software but only need to install the driver to activate the Wireless LAN Card. Please skip this step and go to next section "3. Installing the Hardware and Driver".
1. Close all Windows programs that are running.
 2. Insert the provided Software Utility CD into your CD-ROM drive. The setup program should automatically start. (If the installation does not launch automatically, run **setup.exe** from the **Utility** folder of the provided CD.) When the auto-run menu pops up, select **Install Driver and Utility**.
 3. When the welcome screen appears, click **Next**.
 4. Select **One Click Installation** and click **OK**. The program will auto-process the software installation.
 5. Finally, click **Finish** to complete the installation.

3 Installing the Hardware and Driver

For Windows 98/98(SE)/Me/2000

After installing the Wireless LAN Card software, plug the Wireless LAN Card into your computer's PCMCIA slot/USB port. Upon hardware detection, Windows OS will install the driver for the card automatically.

1. For Windows 98(SE): If prompted, you need to insert your Windows 98(SE) installation CD to complete the driver installation.
2. For Windows 2000: If you are prompted with the **Digital Signature not Found** alarm message, just click **Yes** to ignore it and continue with the auto-installation. .

For Windows XP

After installing the Wireless LAN Card software, plug the Wireless LAN Card into your computer's PCMCIA slot/USB port. Then follow these steps to manually install the driver for the card:

1. When you insert the Wireless LAN Card into PCMCIA slot/USB port, the system will display an unknown hardware message. Select **Install from a list or specific location[Advanced]** and click **Next** to continue.
2. Point the directory to the Wireless LAN Card Software Utility CD, for example, **D:\Utility\Driver\PCMCIA(USB)\WinXP**. Click **Next** to continue.
3. The Windows now will copy the drivers from the Wireless LAN Card Software Utility CD.
4. After Windows XP copied the drivers from the Software Utility CD, click **Finish**.

4

Using the Wireless LAN Configuration Utility

Part I. For Windows 98(SE)/Me/2000

After software and hardware installation, select **Start > Programs > Wireless LAN Card > Configuration & Monitor Utility**. The utility appears as an icon on the system tray. You can open it by double-clicking this icon.

The **Wireless LAN Cards Monitor Utility** comes with six tabs: **Monitor**, **Statistics**, **Site Survey**, **Encryption**, **Advanced** and **Version** as described below:

Monitor

The configuration parameters are displayed: **Operating Mode**, **Channel**, **SSID** and **Tx Rate** of the Wireless LAN Card. You can change the configuration parameters and then click **Submit** to save your changes.

Status field displays the information about the status of the communication. If connected, it shows the BSSID of the Access Point/wireless station with which the card is associated. **Signal Strength** and **Link Quality** are for Infrastructure Mode only, which allows to check the connectivity status.

Statistics

This option enables you to view the available **Data Packets** statistic information. You may click the **Clear** button to renew the statistics.

Site Survey

In any of the two modes, this option allows you to scan all the channels to find out all the available Access Points and wireless stations (Ad-Hoc mode) within the range of your card. With each Access Point or wireless station (Ad-Hoc mode) listed, these information are provided: the BSSID and SSID of the Access Point/wireless station (Ad-Hoc mode), the signal strength, the channel and whether or not WEP encryption is used.

In order to update this list, click the **Re-scan** button. If you want to associate with any of the Access Point/stations listed, double-click on your choice (on the **BSSID** field), and the system will take you back to the **Monitor** screen showing you the parameters of the connection newly established.

Encryption

In any of the two modes, this option allows you to set up encryption parameters. Note that your encryption settings must match those used by the Access Points/wireless stations (Ad-Hoc mode) with which you want to associate.

First, either enable (select **64 Bit** or **128 Bit**) or disable encryption from the **Encryption** field. If encryption is enabled, enter four different WEP keys in **HEX** or **ASCII** format. Note that if you use HEX format, only digits 0-9 and letters A-F are valid.

The four keys, including the one selected as **WEB Key to use**, are used to decrypt the data you receive. In the **WEP Key to use** box, select one of the four keys to encrypt the data you are going to transmit.

Finally, you can select whether to use **Open System** or **Shared Key** as the authentication type. Your authentication type must be the same as those on the Access Point/wireless station (Ad-Hoc mode) with which you want to associate.

To enable the settings, click the **Submit** button.

Advanced

In any of the two modes, this option allows you to change advanced configuration settings, including **Fragmentation Threshold**, **RTS Threshold** and **802.11 Power Save**.

Both Fragmentation and RTS thresholds are disabled by default. To change the parameters, move the slide bar with your mouse and then use the right and left arrow keys of your keyboard to select an exact number in bytes.

In the **802.11 Power Save** check box, select whether to enable power saving feature as required.

Version

This option displays the basic information about the device, including the Driver, Firmware and Application Version.

Part 2. For Windows XP

Connecting to an Access Point or Wireless LAN Card

Double-clicking the network connection icon to open the **Connect to Wireless Network** window. You will see all the Access Points or Wireless LAN Cards (Ad-Hoc mode) that are available in the air.

Select the Access Point or Wireless LAN Card that you want to connect to. Enter the WEP key in **Network Key** field, if necessary, and click **Connect**. Then you will join its network and this dialog window will disappear.

Viewing Wireless Connection Status

After you successfully connect to the Access Point or Wireless LAN Card, double-click the icon on the system tray again. The **Wireless Network Connection Status** window displays the general data of the Wireless LAN Card, such as Status, Duration, Speed, Signal Strength, etc.

Configuring Your Wireless Properties

In the **Wireless Network Connection Status** window, click **Properties** to open the **Wireless Network Connection Properties** window. The following describes each tab of the properties window to help you do more settings of the Wireless LAN Card.

General

This tab allows you to specify the network methods to be used with your Wireless LAN **PCMCIA/USB** Card. The network policy depends on your wireless network. For TCP/IP protocol, you should configure its properties as instructed by your network administrator.

Wireless Networks

Under **Available networks** section, you can also see all the Access Points and Wireless LAN Cards (Ad-Hoc mode) available in the air. Clicking **Refresh** will update the list of Access Points and Wireless LAN Cards (Ad-Hoc mode).

Under **Preferred networks** section, you can add any wireless networks that you wish to connect to. To do this, just click **Add** and enter necessary network setting in **Wireless Network Properties** window and then click **OK**.

Authentication

The most important setting for the Wireless LAN Card is to disable **Enable network access control using IEEE802.1X** to ensure successful connection between the Wireless LAN Cards and Access Points or other Wireless LAN Card (Ad-Hoc mode). You must disable this function for any reason. Otherwise, there may be some problems happening during connection. For other settings, we recommend you keep the default settings to minimize the problems during connection.