GIGABYTE
T E C H N O L O G Y

GN-WI01GS

MINI PCI Wireless Adapter

User's Manual

http://www.gigabyte.com.tw

Revised 1.0-1st
Version

Administrative Regulations on Low Power Radio Waves Radiated Devices

Article 14

Without permission granted, the frequency change, transmitting power enhance or alter of original design characteristic as well as function by companies, enterprises, or users for approved Low-power radio frequency devices is not allowed.

Article 17

Low-power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, shall cease operating immediately until no interference is achieved.

Article 20

A company, enterprise, or user importing, manufacturing low-power radio-frequency devices will be punished for violation of regulation hereunder, authorized frequency usage or change and power change in accordance with Telecommunications Act. Furthermore, Directorate General of Telecommunication can cancel its model certificate or recognition label.

Above mentioned Legal Communications is defined as radio communications operation complying to Telecommunications Act.
Low-power radio-frequency devices must susceptible with the interference from legal communications, ISM radio wave radiated devices.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device is intended only for OEM integrators under the following conditions:

1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and

2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further <u>transmitter</u> test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions <u>can not be met</u> (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID <u>can not</u> be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users (for example :Wireless Router. Access Point). The final end product must be labeled in a visible area with the following: "Contains TX FCC ID: JCK-GN-Wl01GS".

Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the users manual of the end product which integrate this module.

The users manual for OEM integrators must include the following information in a prominent location " IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

GIGABYTE declares that GN-WI01HT (FCC ID: JCK-GN-WI01GS) is limited in CH1~CH11 for 2.4GHz by specified firmware controlled in U.S.A.

Content

Chapter 1　Product Overview

1-1.Introduction

This 802.11b/g Wireless Local Area Network (WLAN) card is composed of Media Access Controller (MAC), baseband, radio components, MINI-PCI interface, and one external antenna. It operates within the 2.4GHz spectrum, providing high speed (up to 54Mbps) and secure (supporting AES, 802.1x & WEP and WPA) WLAN connections.

1-2.Features

- Conforms to 802.11b/802.11g specification
- Transmits data rate up to the maximum speed of 54 Mbps
- Dynamically scales the data rate.
- External antenna.
- Seamless roaming between WLAN.
- Supports AES (Advance Encryption System), enterprise-class 802.1x security and multiple-levels WEP encryption (64-bit /128-bit/), and WPA (Wi-Fi Protected Access)
- Drivers support Windows 98SE/Me/2000/XP.

1-3.Physical Dimensions/Packaging

Dimensions: 134mm × 121mm × 22mm
Before the installation procedures, please ensure the components are not damaged during the shipping. The components include:

GN-WI01GS WLAN card×1
External antenna×1
Installation CD (including User' s Manual and driver)×1
User's Manual×1

In case of any missing or damaged accessories, please contact your local distributor or authorized reseller immediately. If you require returning the damaged product, you must pack it in the original packing material or the warranty will be voided.

1-4.LED Indicator

ACT	OFF	ON	ON
LINK	OFF	ON	BLINK
Meaning	Network card is not functioning	Network card is connecting to network	Network card is sending/receiving data.

LED	● ○	○ ●
Condition of the Receiver	ACT	LINK

1-5.System Requirements

1-5-1. Supported Platform:

IBM PC/AT compatible computer

1-5-2. Supported Operation System:

Windows 98SE/Me/2000/XP

Chapter 2   Installing the WLAN Card

The following sections will assist you to install this WLAN card. 2-1: Hardware Installation, 2-2~2-5: Software Installation, which provides users more convenient installation methods and automatically installs drivers and utilities. Please refer to different section (2-2: Windows 98SE, 2-3: Windows ME, 2-4: Windows 2000, and 2-5: Windows XP) for software installation in accordance with your operation system.

2-1. Installing the WLAN Card (Hardware Installation)

Step 1: Power off you PC.

Step 2: Plug the WLAN Card into MINI-PCI slot on the motherboard.

Step 3: Install the antenna on the mount of the WLAN Card.

Step 4: Power on you PC.

2-2. Installing The Driver & Utility (Win 98SE)

Step 1: Click **"Cancel"** for automatic installation.

Step 2: Insert the installation CD into the CD-ROM drive. The following window will pop up.

Step 3: Click **"Install Wireless LAN Utility"**.
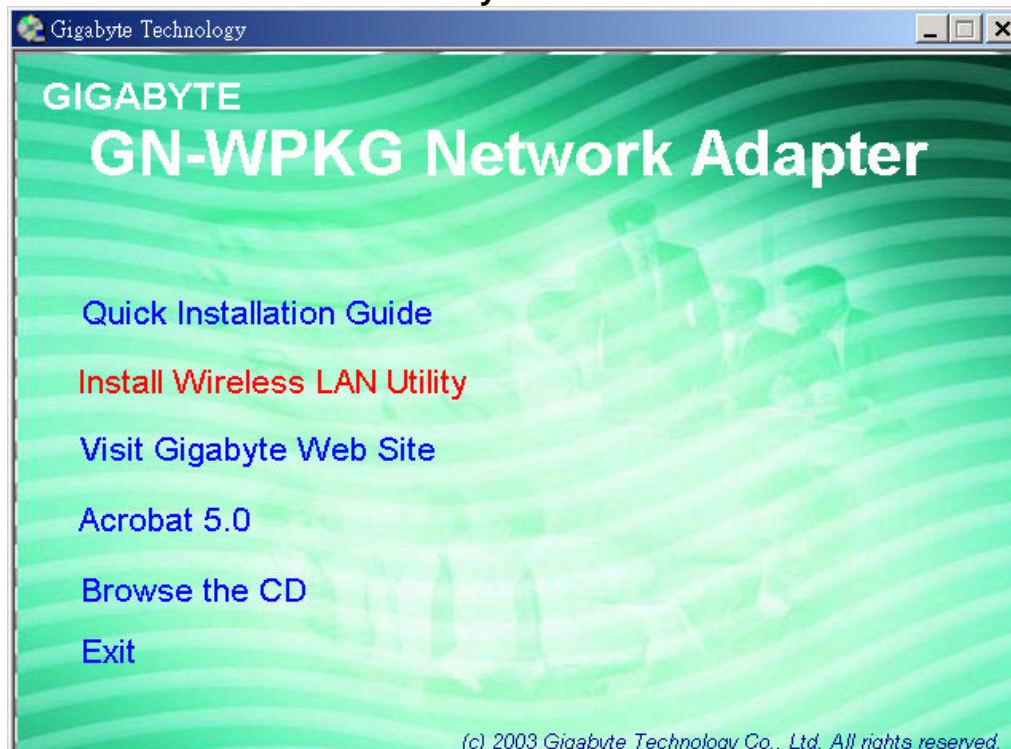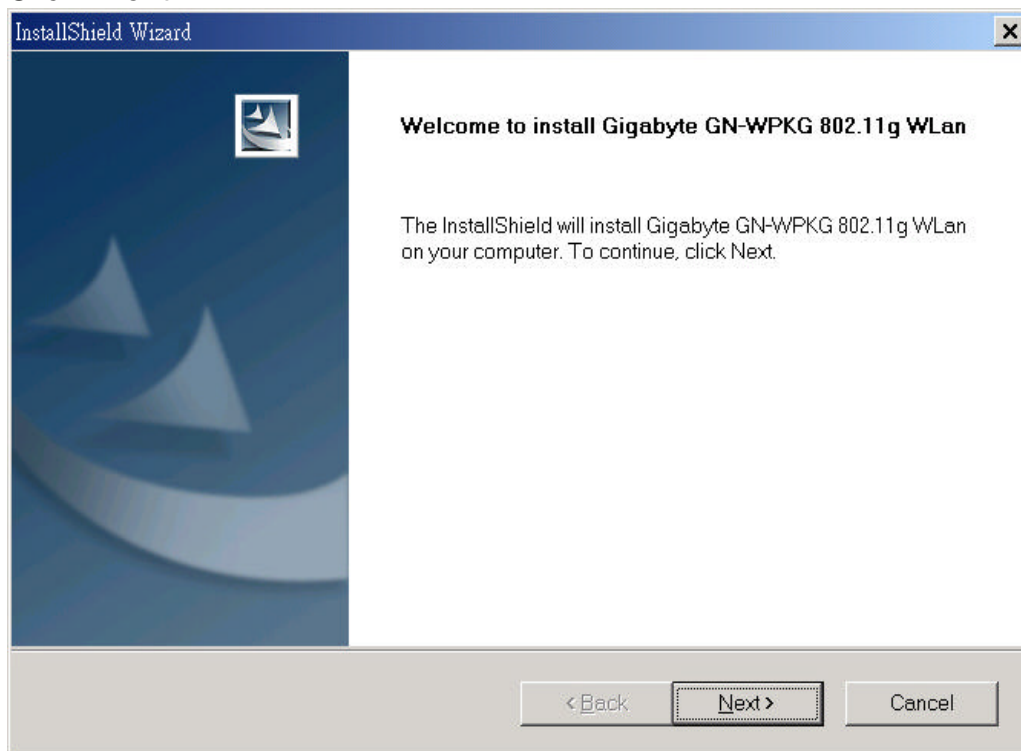
Step 4: Click **"Next"**.

Step 5: Click **"Next"**.
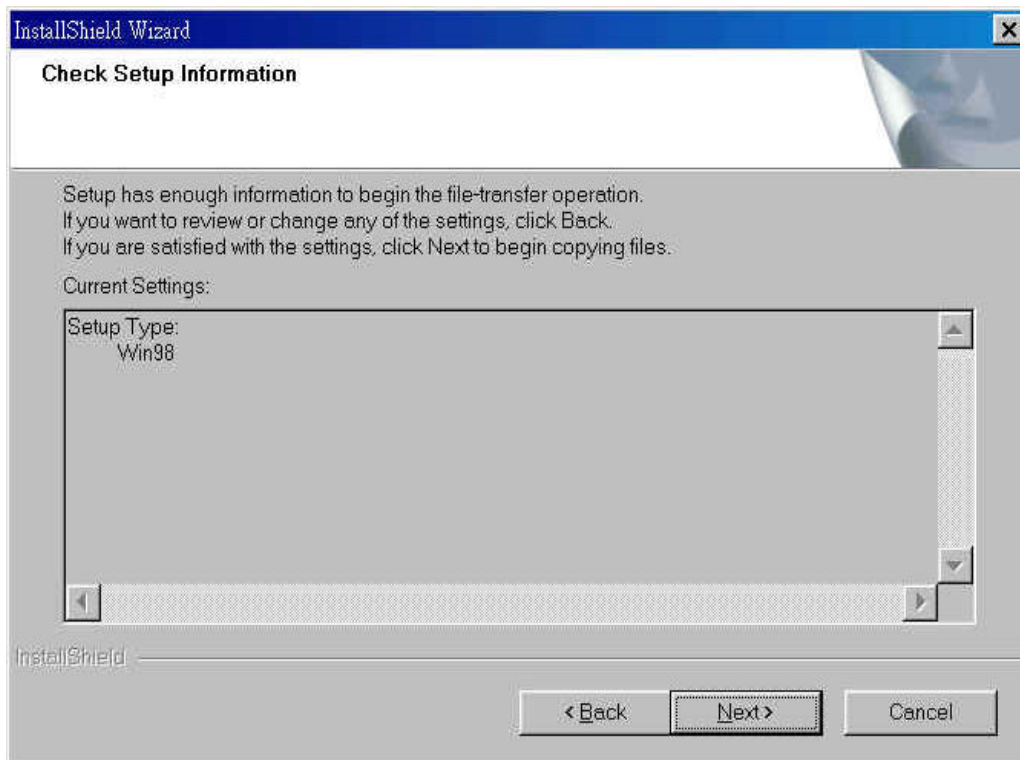
Step 6: Click **"OK"**.

Step 7: Click **"Finish"**.
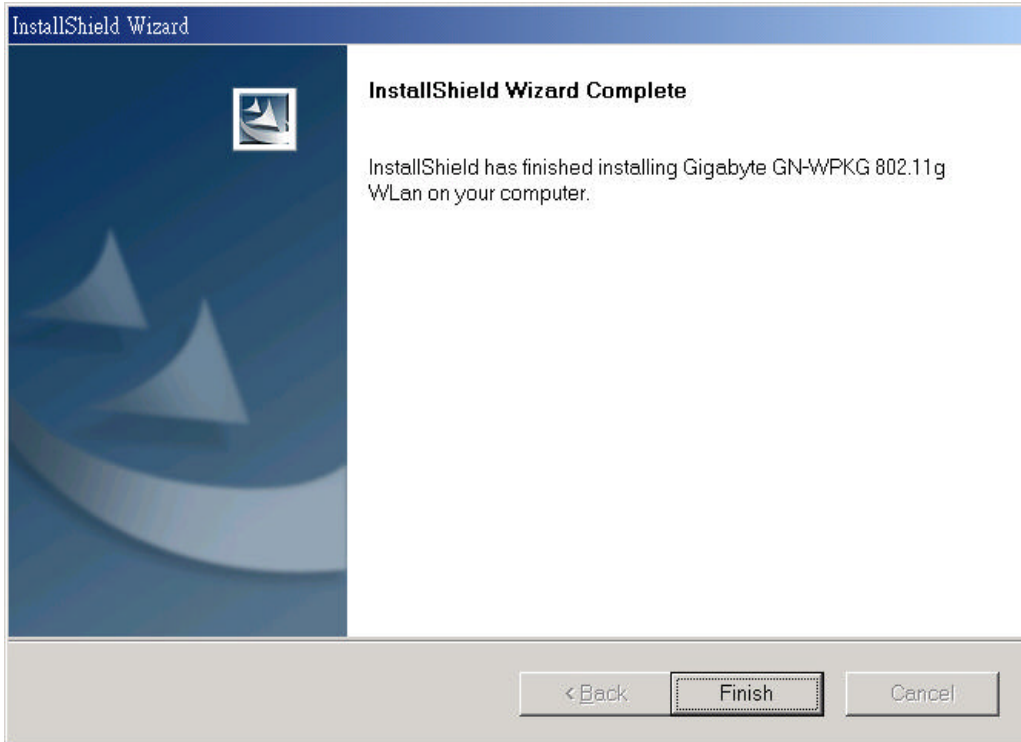
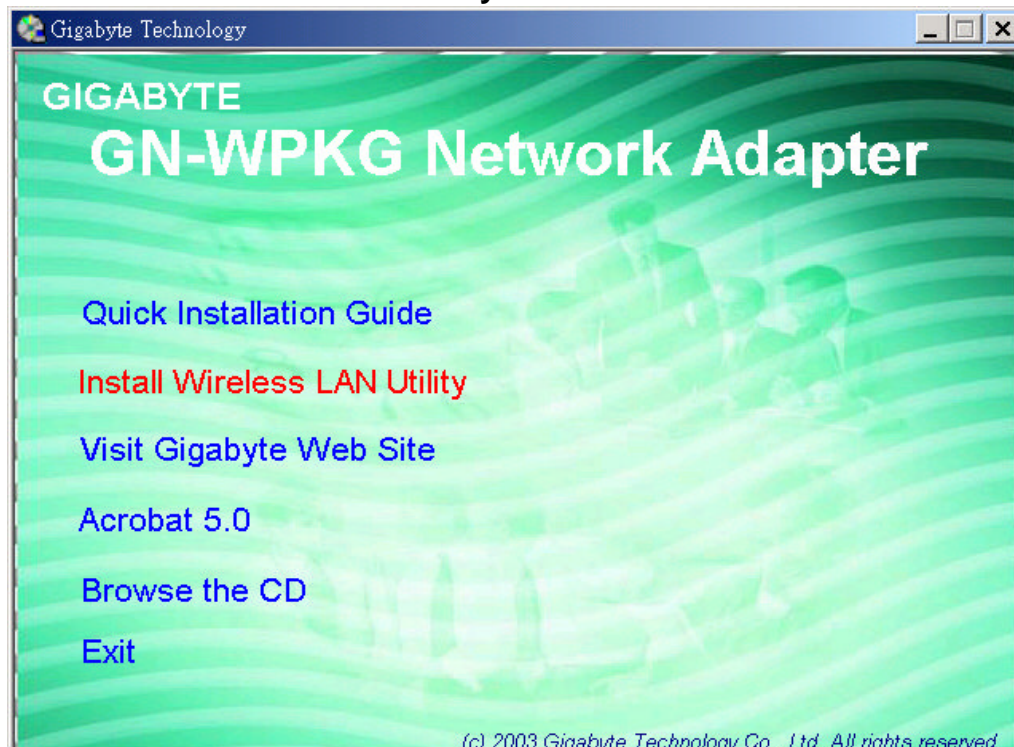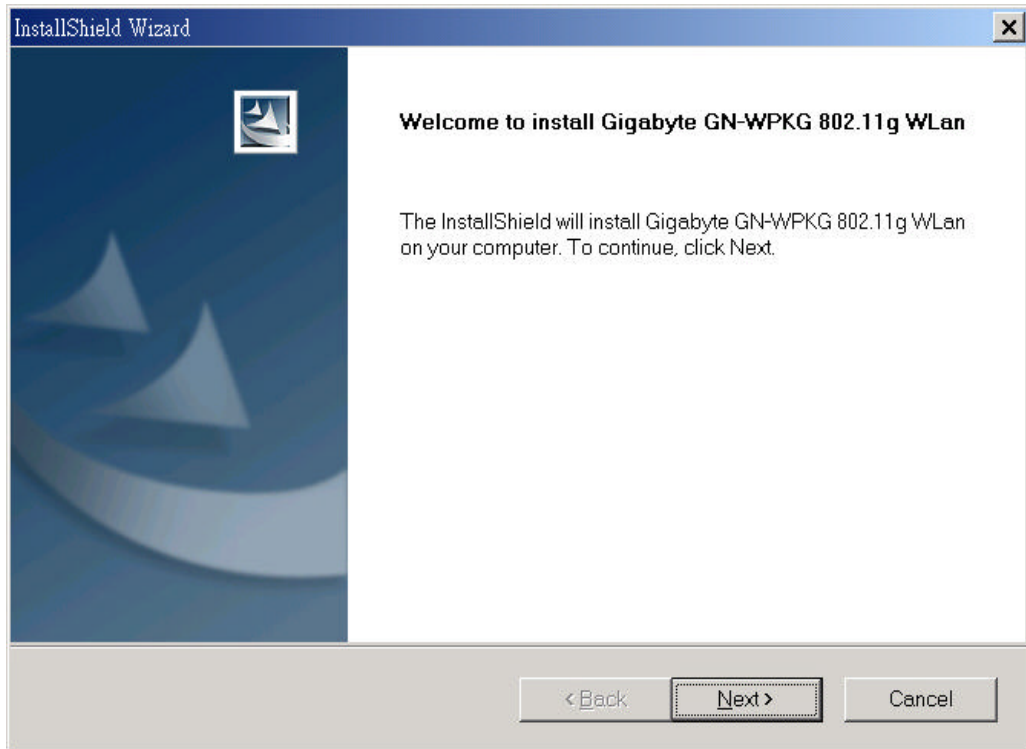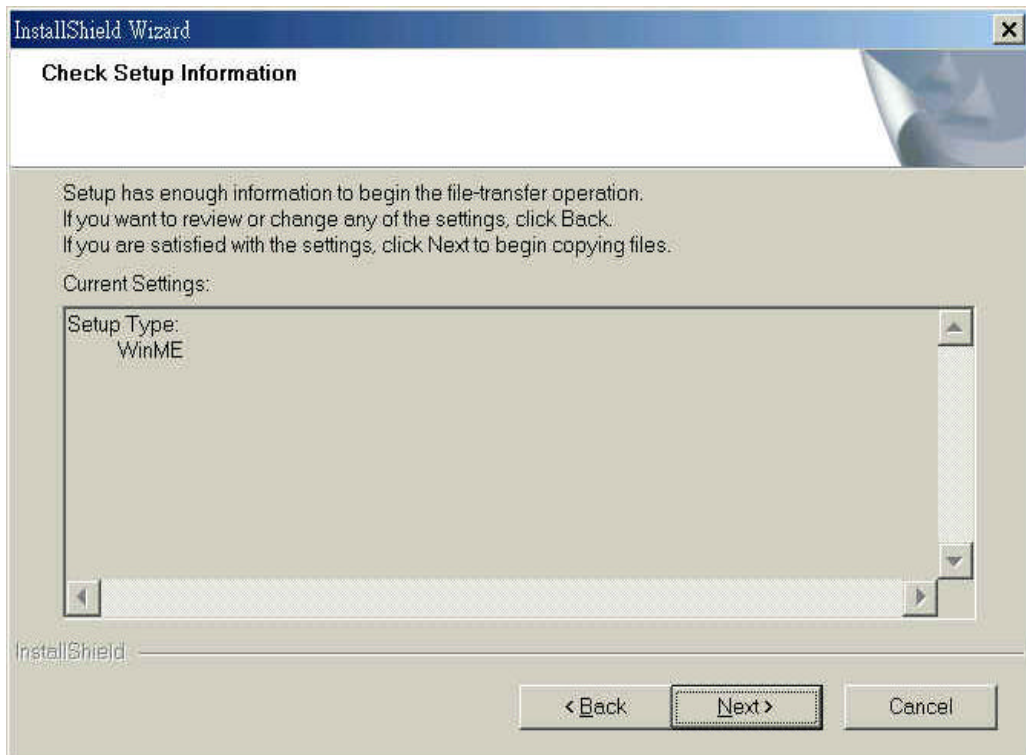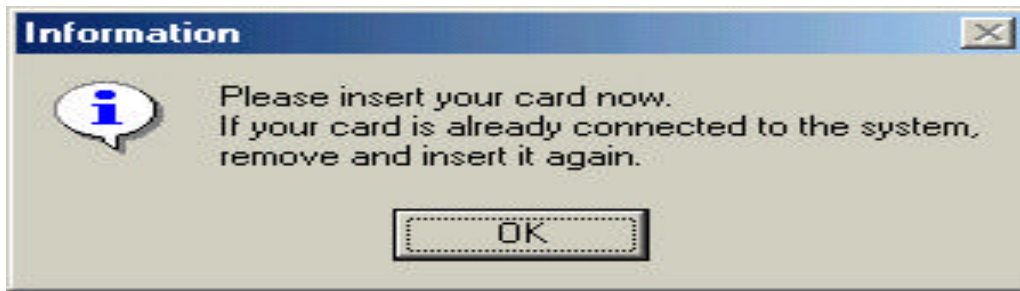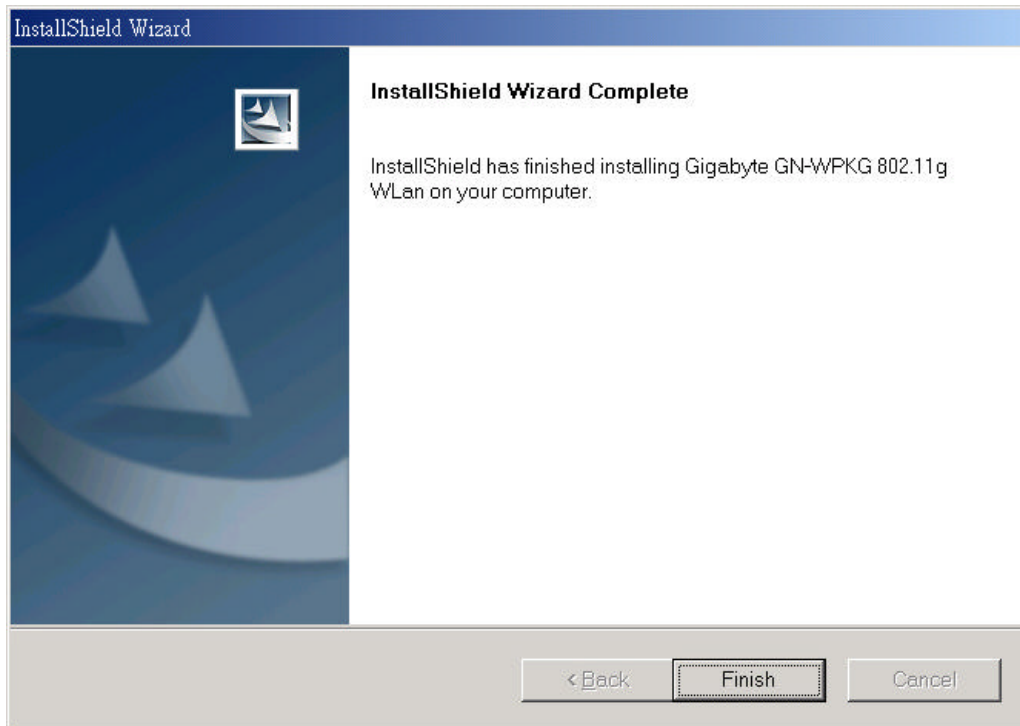**Step 8:** To install 802.1X authentication function, click **"Browse the CD"**.
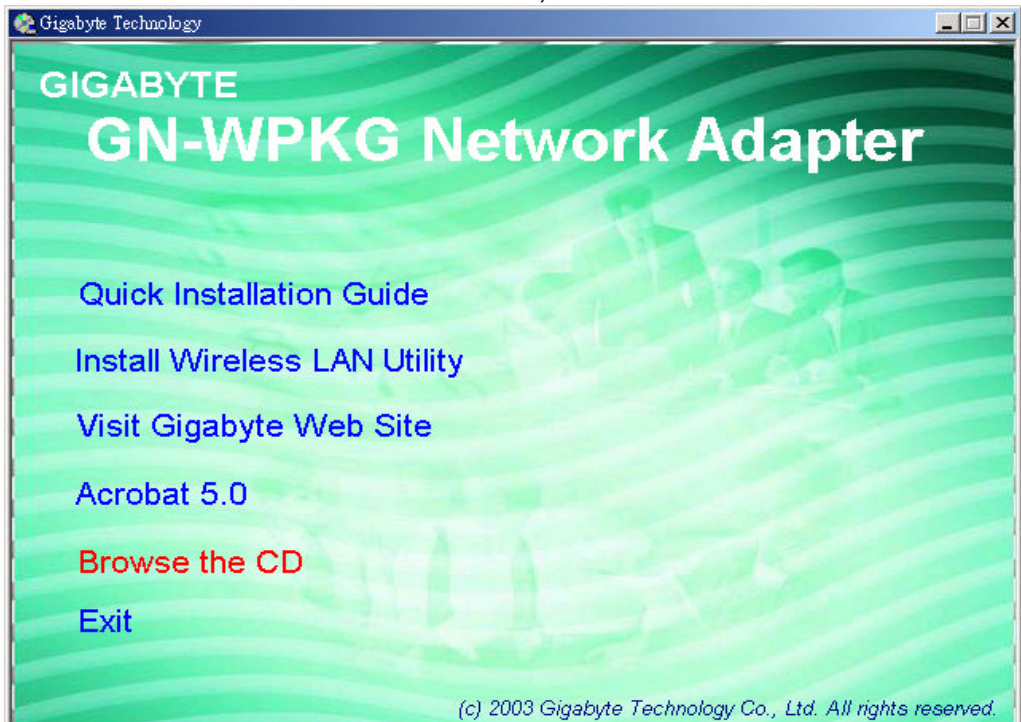
Step 9: Run **"CD-ROM:\\Utility \AegisI2.exe"** of the installation CD.
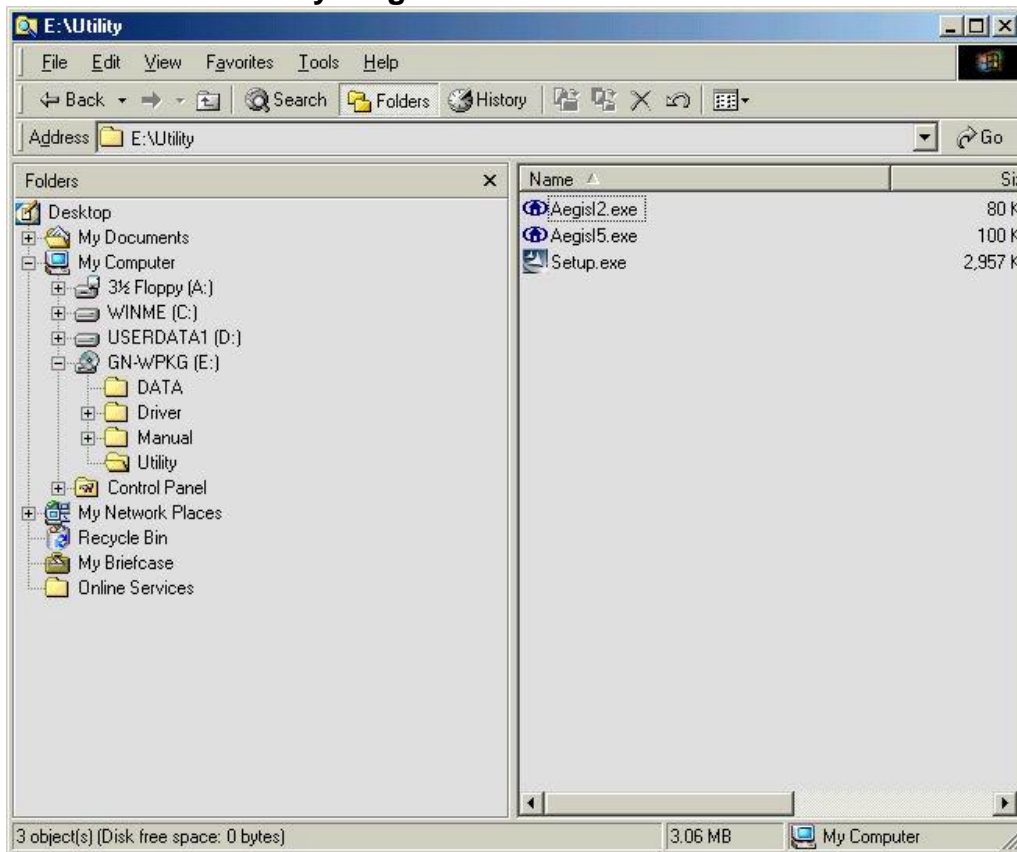
Step 10: Click **"Install"**.

Step 11: Click **"Cancel"**. Windows may reboot after the installation.
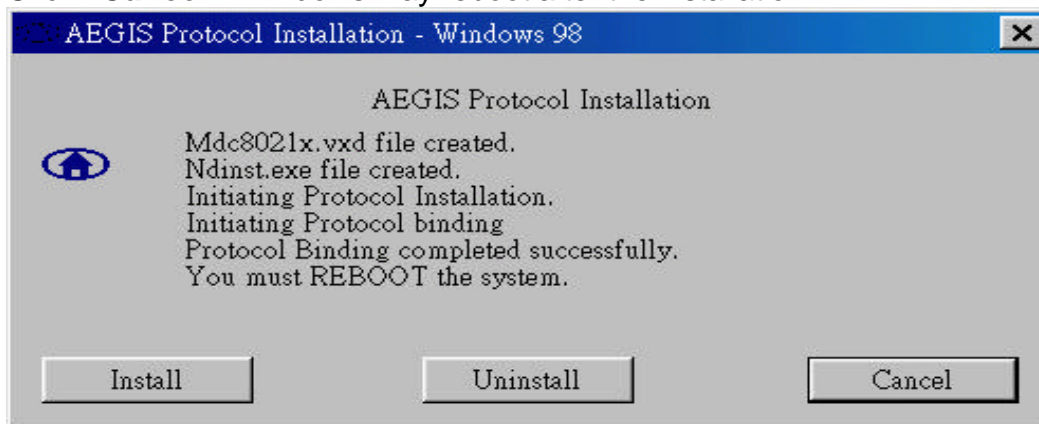
2-3. Installing The Driver & Utility (Win ME)

Step 1: Click **"Cancel"** for automatic installation.
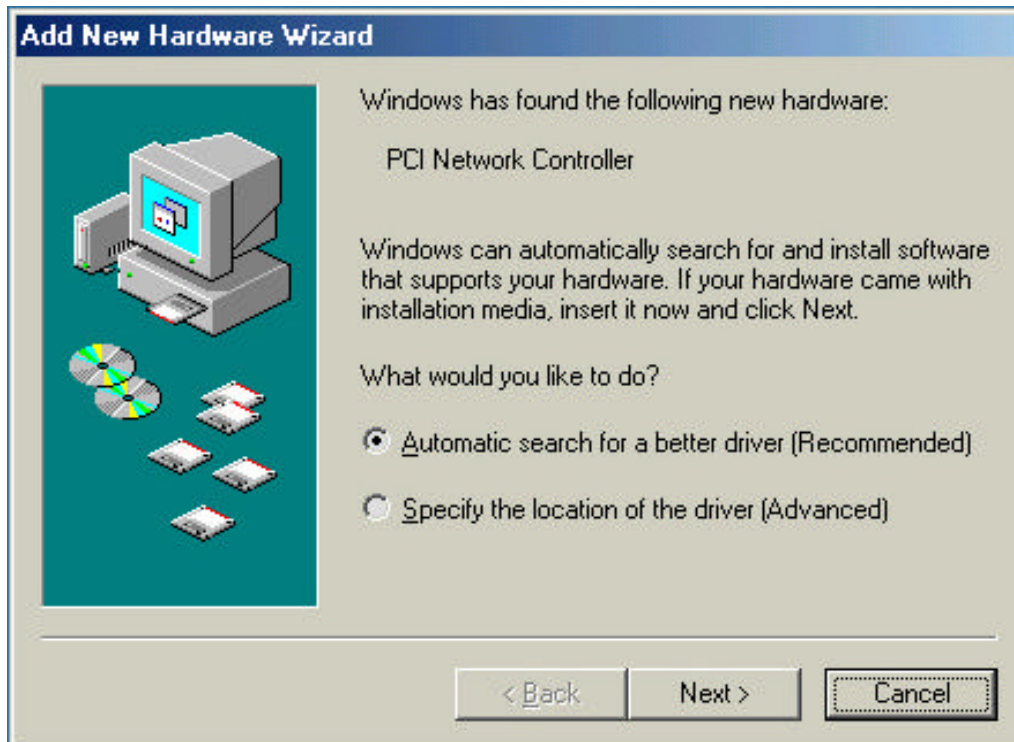
Step 2: Insert the installation CD into the CD-ROM drive. The following window will pop up.

Step 3: Click **"Install Wireless LAN Utility"**.

Step 4: Click **"Next"**.

Step 5: Click **"Next"**.

Step 6: Click **"OK"**.

Step 7: Click **"Finish"**.

Step 8: To install 802.1X authentication function, click **"Browse the CD"**.

Step 9: Run **"CD-ROM:\\Utility \AegisI2.exe"** of the installation CD.
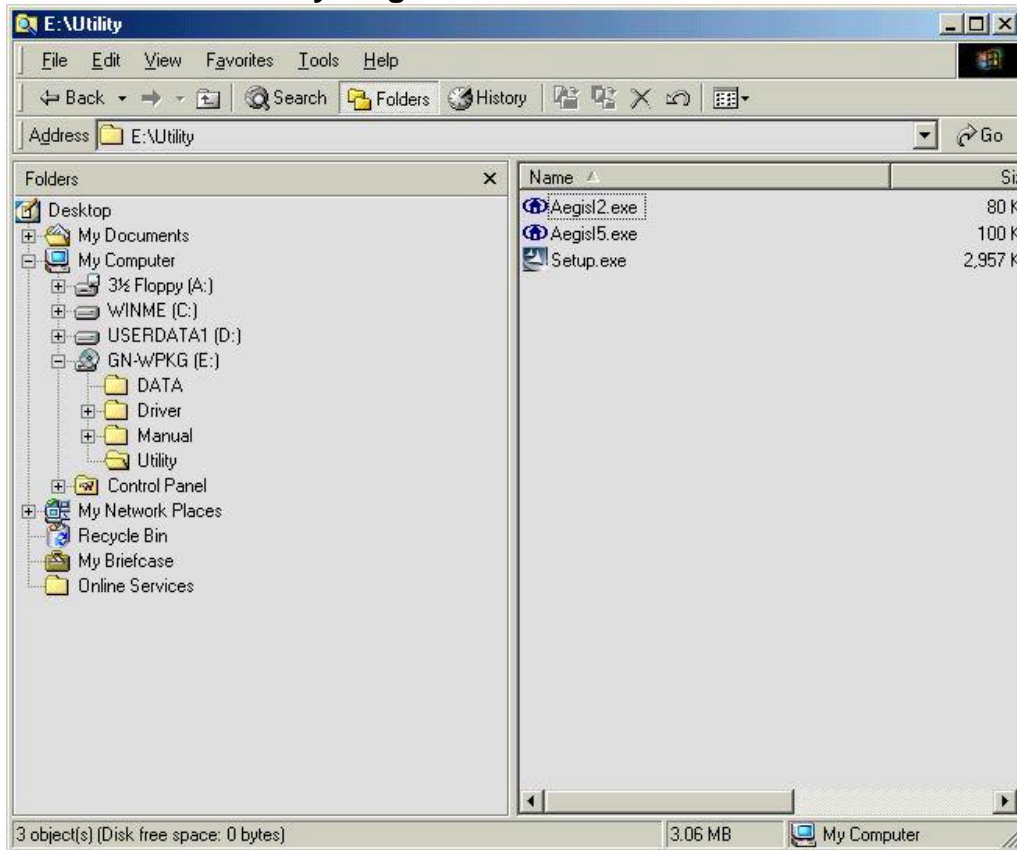
Step 10: Click **"Install"**.

Step 11: Click **"Cancel"**. Windows may reboot after the installation.
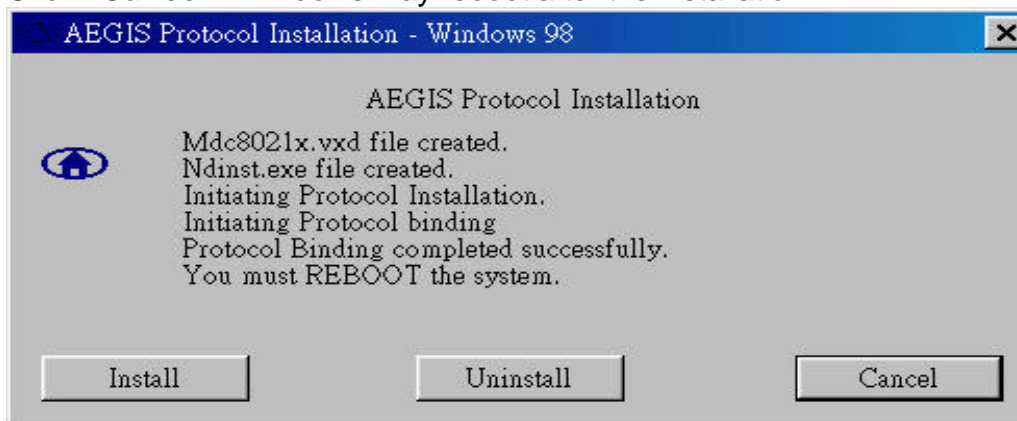
2-4. Installing The Driver & Utility (Win2000)

Step 1: Click **"Cancel"** for automatic installation.

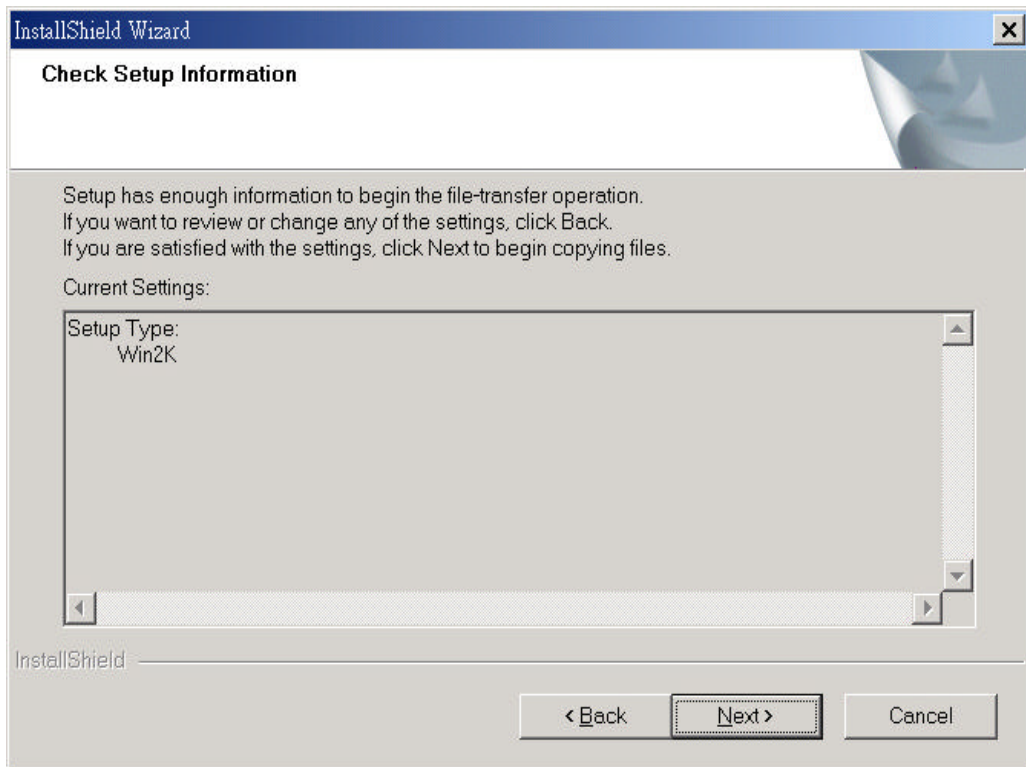**Step 2:** Insert the installation CD into the CD-ROM drive. The following window will pop up.

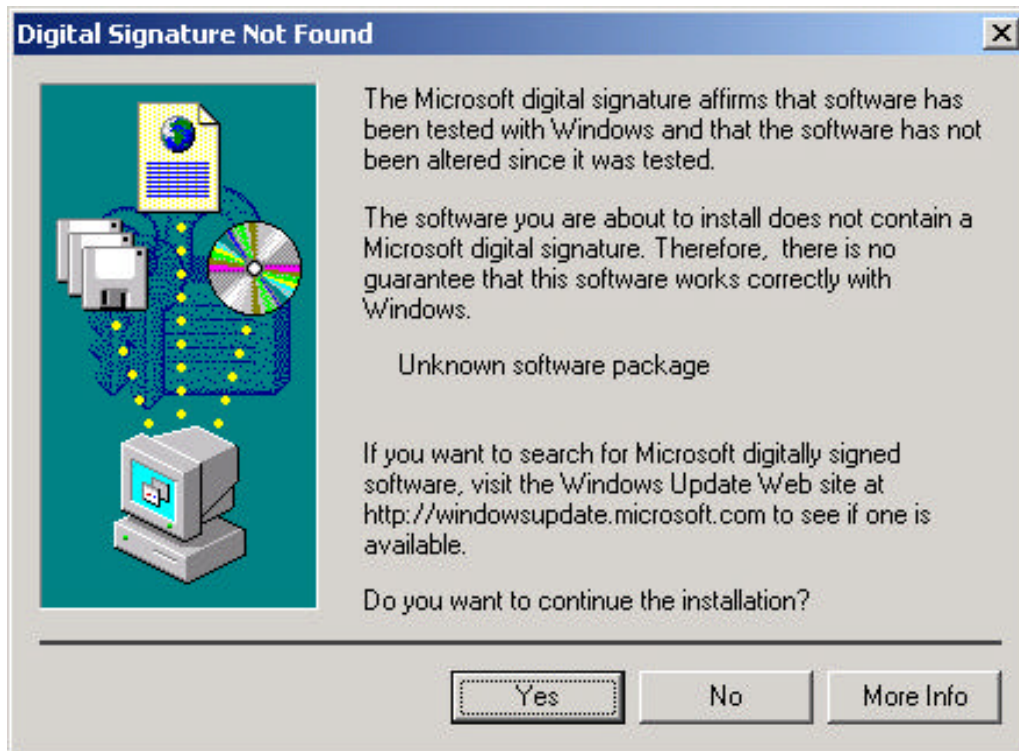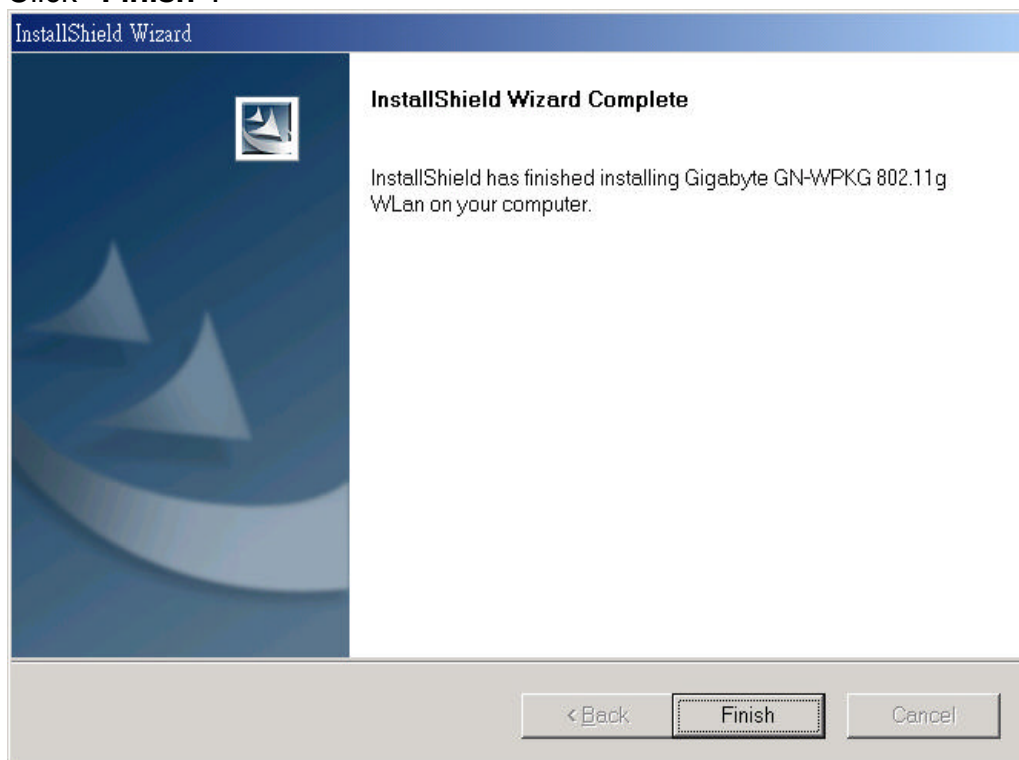**Step 3:** Click **"Install Wireless LAN Utility"**.
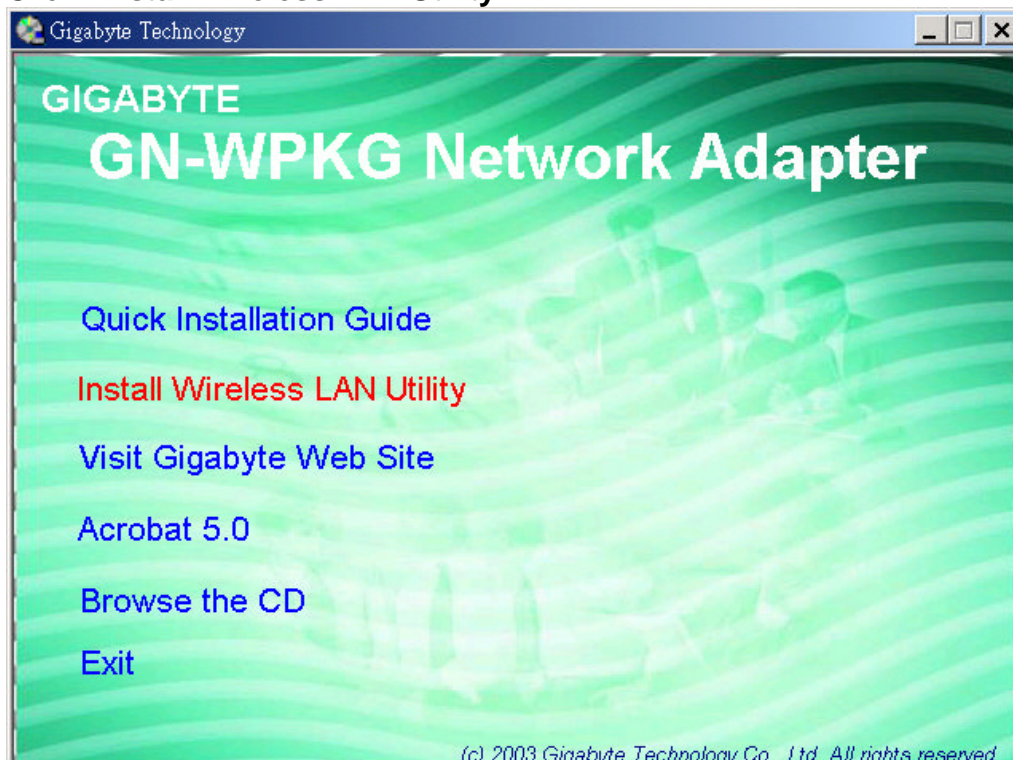
Step 4: Click **"Next"**.

Step 5: Click **"Next"**.

Step 6: Click **"OK"**.

Step 7: Click **"Finish"**.

Step 8: Click **"Yes"**.

Step 9: To install 802.1X authentication function, click **"Browse the CD"**.