GN-WLCM201

IEEE 802.11b Compact Flash Wireless LAN Card

User's Manual

http://www.gigabyte.com.tw

Rev. 1.0 First Edition

Contents

Chapter 1. Product Overview

1-1. Introduction to The Wireless LAN Card

This wireless Local Area Network (LAN) card is composed of the IEEE 802.11b MAC with CompactFlash interface, Baseband, radio components, and two built-in antennas. This product adopts the direct sequence spread spectrum (DSSS) technology using the DBPSK, DQPSK, and CCK modulations to provide a very stable wireless communication quality and an excellent signal receiver capability.
This product features the compact size, low power consumption, and power management functions, and provides a high-speed wireless data communication. Therefore, this product is ideally suitable for being integrated into the personal mobile and handheld platform.

1-2. Features

- Conforms to IEEE 802.11b specification.
- Transmits data rate up to the maximum speed of 11Mbps.
- Dynamically scales the data rate to 11, 5.5, 2, and 1Mbps.
- Automatic power management to reduce battery consumption.
- Built-in diversity antenna.
- Supports 64-bit /128-bit WEP encryption.
- Driver supports Windows CE3.0/4.1 and Windows 98SE/Me/2000/XP.

1-3. Physical Dimensions/Packaging

Dimensions: 55.4mm* 43mm* 3.3mm

This wireless LAN card conforms to the Compact Flash Type I standard. There is one LED-indicating lights to indicate Act/Link status.

1-4. LED Indicating Light

- **Scanning**: This LED blinks quickly when the card is scanning a network.
- **Associated:** This LED is continuously on while the card is linked with the network.

1-5. System Requirements

1-5-1. Supported Platform

IBM PC/AT compatible computer

1-5-2. Supported Operation System

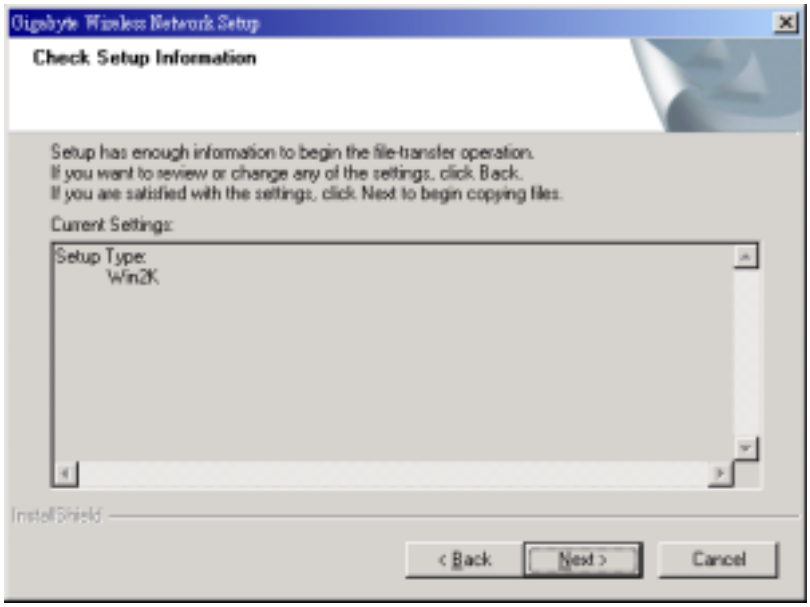
Windows CE3.0/4.1
Windows 98SE/Me
Windows 2000/XP

Chapter 2. Installing the Wireless LAN Card

2-1. Installing The Driver & Utility

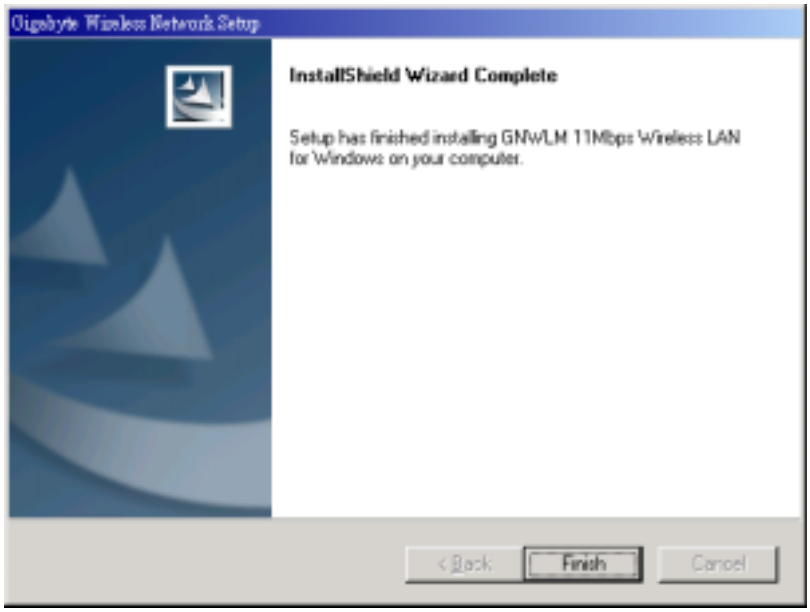
Step 1: Please make sure that you don't plug your card yet.

Step 2: Execute the setup.exe on our CD, and then the following window will pop up.



Step 3: Click "**Next**".

Step 4: Click "**OK**".



Step 5: Click “**Finish**”, and then your installation is ok.

Chapter 3. Specification

System		
Standards	IEEE 802.11b	
Host Interface	Compact Flash (CF)Type I	
Modulation	1Mbps: DBPSK; 2Mbps: DQPSK; 5.5 and 11 Mbps: CCK	
Data Rate	1, 2, 5.5, 11 Mbps	
Operating Voltage	3.3V	
Power	Tx 250mA; Rx 200 mA; Sleep 40 mA	
Operating Range	Open space: 100 - 300m; Indoor: 30 - 100m	
RF		
Frequency Band	2.400 ~ 2.484 GHz (subject to local regulation)	
Radio Technology	DSSS (Direct Sequence Spread Spectrum)	
Number of Channel	11 Channels (US, Canada)	4 channels (France)
	14 Channels (Japan)	13 Channels (Most European countries, ETSI)
Output power	13 dBm@ Nominal Temp Range	
Receive Sensitivity	Minimum - 80dBm@11 Mbps date rate; Typical –82dBm@11 Mbps date rate	
Regulatory and Environmental Compliance		
EMC certification	FCC part 15 (USA)	
	CE (Europe)	
Temperature Range	Operating: 0 ~ 55 degree C, Storage: -20 ~ 65 degree C	
Humidity	Max. 90% Non-condensing	
Software		
Driver	Windows CE 3.0/4.1; Windows 98/ME/2000/XP	
Roaming	Full mobility and seamless roaming	
Security	64 and 128 bit WEP	
Management Utility	Link Configuration for network join and statistics	
Mechanical		
Dimensions	55.4mm * 43mm * 3.3mm	
Weight	16 ± 1 g	
Packaging	Generic, Gigabyte, private labeling optional	
LED indicator	Power/Link status	

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.

FCC Caution: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. End-users must be provided with specific operating instructions for satisfying RF exposure compliance."