

Chung Nam Electronics (CNE)
IEEE 802.11g MiniPCI WLAN Card

Version 0.1

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Chapter 1 Introduction

The CNE 802.11g WLAN NIC is a complete wireless high speed Network Interface Card (NIC). It conforms to the IEEE 802.11g protocol and operates in the 2.45GHz ISM frequency bands.

It provides a complete reference design evaluation platform of hardware and software to system providers or integrators requiring wireless data communications capability and is ideal for integration into computer platforms.

- Fully compliant with the IEEE 802.11g WLAN standards
- FCC Certified Under Part 15 (pending) to Operate in the 2.45 Bands
- Support for 54, 48, 36, 24, 18, 12, 9, and 6 Mbps OFDM, 11 and 5.5 Mbps CCK and legacy 2 and 1 Mbps data rates
- Driver Supports Microsoft Windows ® 98/SE, ME, XP and 2000 (SR1)

Chapter 2 Regulatory Information

2.1 FCC Information to User

This product does not contain any user serviceable components and is to be used with approved antennas only. Any product changes or modifications will invalidate all applicable regulatory certifications and approvals.

2.2 FCC Guidelines for Human Exposure

Warning:

In order to comply with RF exposure limits established in the ANSI C95.1 standards, The user is advised to maintain a distance of at least 20cm from the antenna of this device while it is in use.

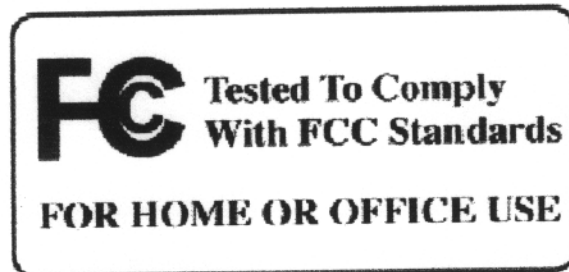
2.3 FCC Electronic Emission Notices

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
2. This device must accept any interference received, including interference that may cause undesired operation.

2.4 FCC Radio Frequency 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 when the equipment is operated in a commercial 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. Operation of this equipment in a residential area may cause harmful interferences, in which case the user will be required to correct the interference at his own expense.

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 or more 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

2.5 Export Restrictions

This product or software contains encryption code which may not be exported or transferred from the US or Canada without an approved US Department of Commerce export license.

Chapter 3 Technical Specifications

Radio Technology	IEEE 802.11g Turbo (DSSS and OFDM)
Operating Frequency	2400-2497MHz ISM band
Modulation Schemes	DQPSK, DBPSK, CCK, 16 QAM, 64 QAM
RF Channel Availability	11 channels for US (2412MHz to 2462MHz) 13 channels for Europe (2412MHz to 2472MHz) 13 channels for Japan (2412MHz to 2472Mhz), channel 14 only available in DSSS mode (11Mbps max)
Data Rate	Support for 54, 48, 36, 24, 18, 12, 9, 6 Mbps OFDM, 11 and 5.5 Mbps for CCK and legacy 2 and 1 Mbps data rates
Media Access Control	CSMA/CA with ACK
RF Output Power	< 18dBm EIRP (typical) including antenna gain
Antenna Type	Dual diversity antennas
Operation Voltage	3.3 V DC via PCI host miniPCI slot
Host Interface	MiniPCI
Form Factor	Type III A
Device Driver Support	Microsoft® Windows® NT, 2000, ME and XP
Operating Temperature	0 to 70 °C
Storage Temperature	-20 to 85 °C
Humidity	Max. 95 % non-condensing

Remark:

There are only 11 channels operation for U.S., it is set by manufactory.