

# Application Document for FCC Part 15, Subpart E (Intentional Radiator) Class II Permissive change

**Product Name: IBM 11a/b/g Wireless LAN Mini PCI Adapter**

**Document Number: FCC 19-0235-0**

**FCC ID: ANO20030400LEG**

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EMC R&D Staff Engineer

Shigeru Motoki

Signature: 

IBM Japan, Ltd.

EMC Engineering

LAB-S59

1623-14, Shimotsuruma,

Yamato-shi Kanagawa-ken 242-8502, Japan

Phone: +81-46-215-2239

Fax: +81-46-273-7420

E-Mail: murota@jp.ibm.com

EMC Engineering Manager / NVLAP signatory

Akihisa Sakurai

Signature: 

IBM Japan, Ltd.

EMC Engineering

LAB-S59

1623-14, Shimotsuruma,

Yamato-shi Kanagawa-ken 242-8502, Japan

Phone: +81-46-215-2613

Fax: +81-46-273-7420

E-Mail: akihisa@jp.ibm.com

Portable Product Development No.4 Manager

Yukifumi Nakazawa

Signature: 

IBM Japan, Ltd.

Portable Systems

LAB-R16

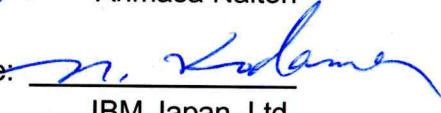
1623-14, Shimotsuruma,

Yamato-shi Kanagawa-ken 242-8502, Japan

Phone: +81-46-215-6168

Portable Systems Director

 Arimasa Naitoh

Signature: 

IBM Japan, Ltd.

Portable Systems

LAB-R11

1623-14, Shimotsuruma,

Yamato-shi Kanagawa-ken 242-8502, Japan

Phone: +81-46-215-6110

# Outline of Submission

## 1. Objective

This is a Certification Compliance Report for FCC Part 15 subpart E (Intentional Radiator).

- The applying equipment : **IBM 11a/b/g Wireless LAN Mini PCI Adapter**
- FCC ID : **ANO20030400LEG**
- Grant Date : July/03/2003 (Original grant)  
: Augst/12/2003 (Class II change)

The following new antenna system (host PC device) is added in this **Class II change** application.

- IBM ThinkPad R50 Series

## 2. Product Description

The applying modular transmitter device is an OEM mini-PCI wireless LAN card supplied by PHILIPS Components. The modular device complies with the following transmission modes.

- IEEE802.11a (5.2GHz band OFDM)
- IEEE802.11a (5.8GHz band OFDM)
- IEEE802.11b (2.4GHz band Direct Sequence Spread Spectrum)
- IEEE802.11g (2.4GHz band OFDM)

**This application includes 5.2GHz band OFDM mode only.** The other three modes are subjected to the FCC 15 subpart C (DTS device), and are to be certified with a separate application as **composite** device.

## 3. Installation of the applying transmitter

The applying LMA transmitter is a **user installable** wireless card. An unique electrical connector (so called "**Electronic Handshake**" BIOS Lock) is employed for the host devices to satisfy the FCC Part 15.203 or RSS-210 §5.5, and the FCC Part 15.407(d) or RSS 6.2.2 q1(i). **This mechanism enables users to install the applying LMA transmitter to the specified hosts (ThinkPad R50 Series).**

The detail explanation of the unique coupling between the LMA transmitter and antenna systems is shown in the separate exhibit "Confidential\_E-Handshake.pdf", however IBM would like to hold it in confidence to maintain the secure "unique operability" with the applying card and IBM antenna systems.

The BIOS Lock function is also effective for the user's maintenance in replacing a broken card with a spare part.

## 4. Collocation with other transmitter

The applying LMA transmitter collocates with the following Bluetooth transmitters and transmits simultaneously.

- IBM Integrated Bluetooth with 56 Modem (FCC ID: ANO20020100MTN)
- Bluetooth PC Card II (FCC ID: PI4BT-IBM-PCII)

As for the RF safety evaluation, refer to the separate "RF Exposure" exhibit.

## 5. Submittal documents

● LAM Qualification	omitted ( identical with the original filing )
● Product Labeling	omitted ( ditto )
● Internal Photos	omitted ( ditto )
● External Photos	omitted ( ditto )
● Block Diagrams	omitted ( ditto )
● Schematic Diagrams	omitted ( ditto )
● Parts List	omitted ( ditto )
● Circuitry Descriptions of LMA transmitter	omitted ( ditto )
● Electronic Handshake BIOS Lock logic	Yes
● The new antenna system Info.	Yes
● Test Report with the new antenna system	Yes
● Test Setup Photos	Yes
● RF Exposure evaluation for the new antenna	Yes
● IBM Web site concerning the grant condition	Yes
● Users Manual	Yes