

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

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

Document Number: FCC 19-0236-0

FCC ID: ANO20030400LEG

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Outline of Submission

1. Objective

This is a Certification Compliance Report for FCC Part 15 subpart C (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)

The 5.2GHz band OFDM mode is subjected to the FCC 15 subpart E (U-NII device), and is to be certified with a separate application as **composite** device.

3. Installation of the applying transmitter

The applying LMA transmitter is an **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 Electronic Handshake 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