

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

Document Number: FCC 19-0216-0
FCC 19-0223-0

Product Name: Cisco Aironet Wireless 802.11b

FCC ID: ANOU58H004

January 24, 2003

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: +81-46-215-6574

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 Director

Masaki Kobayashi

Signature: 

IBM Japan, Ltd.

Portable Products

LAB-R15

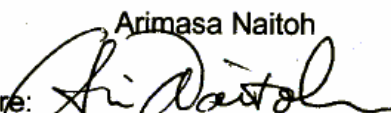
1623-14, Shimotsuruma,

Yamato-shi Kanagawa-ken 242-8502, Japan

Phone: +81-46-215-2750

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 the **Class II Permissive Change of the FCC Part 15, Subpart C (Intentional Radiator)**.

- Original FCC ID : **ANOU58H004**
- Grant Date : **July/11/2002** (Original grant)
September/03/2002 (Class II change)
January/21/2003 (Class II change)

2. Product Description

The applying LMA transmitter is an OEM IEEE 802.11b Wireless LAN mini-PCI card supplied by Cisco Systems, Inc.

3. Collocation

The applying LMA transmitter collocates with the following Bluetooth transmitters.

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

For RF safety evolution, see exhibits "Shr_RF_Exposure" .

4. Installation of the applying transmitter

There is no hardware modification placed on the applying LMA wireless card itself, but an additional antenna system to be supported as follows.

The granted antenna systems of the previous submissions

- IBM ThinkPad T30 Series
- IBM ThinkPad R32 Series
- IBM ThinkPad X30 Series (X30 model)
- IBM ThinkPad R40 Series

The new antenna system for this class II submission

- **IBM ThinkPad X30 Series (Additional model)** ^{*1}
- **IBM ThinkPad T40 Series**

*1: see exhibit "Confidential_BIOS_Lock"

An unique electrical connector (so called BIOS Lock) is employed for those host devices to satisfy the FCC rule Part 15.203 or RSS-210 §5.5. [This mechanism allows users to install the applying LMA transmitter to each specified host listed above.](#)

The detail explanation of the unique coupling between the LMA transmitter and antenna systems is shown in the separated exhibit “Confidential_BIOS_Lock”, 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.

3. 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)
● Detailed technical description of the unique coupling mechanisms between the applying LMA device and the specified antennas (Confidential_BIOS_Lock.pdf)	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