

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

Model Number: BMDC200

FCC ID: ANO20020100MTN

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Outline of Submission

1. Objective

This is a Class II Permissive Change Certification Compliance Report for the FCC Part 15, Subpart C Intentional Radiator:.

- Original FCC ID : **ANO20020100MTN**
- Model Number : **BMDC200**
- Advertising Name : IBM Integrated Bluetooth III with 56K Modem
- Grant Date : January/21/2003 (Original)
February/26/2003 (Class II)
September/29/2003 (Class II)

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

- **IBM ThinkPad X40 series.**

A minor change of the flash memory size from 4MB to 8MB was made. (Refer to the separate exhibit "Confidential_Block_Diagram.pdf".) And **the advertising name is also revised** along with this engineering change, however the electrical characteristics of Bluetooth transmitter, that is covered by "FCC Part 15, Subpart C Intentional Radiator", remains identical with the previous grants.

2. Product Description

The applying modular transmitter device is an OEM Bluetooth card supplied by Actiontec Electronics, Inc. The modular device complies with the Bluetooth standard Class II specification. The module also has a modem interface. I.e. it is a combo card of Bluetooth with modem function. The certification or DoC process for the modem conformance is performed by Actiontec.

3. Installation of the applying transmitter

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

The granted antenna systems in the previous submission

- IBM ThinkPad R40 Series (The LMA Tx is preinstalled by IBM.)
- IBM ThinkPad X30 Series (The LMA Tx is user installable.)
- IBM ThinkPad T40 Series (ditto)
- IBM ThinkPad R50 Series (ditto)

The new antenna system for this class II submission

- **IBM ThinkPad X40 Series (The LMA Tx is user installable.)**

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 into each specified host device except R40 Series.

The detail explanation of the unique coupling between the LMA transmitter and antenna systems is shown in the separate 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.

4. Collocation with other transmitters

The applying LMA transmitter is used as a supplementary device of a dominant WLAN transmitter listed below, and it can transmit simultaneously with the dominant transmitter that is installed in the specified host device listed in the previous section of this document, (3.).

Collocate Dominant Transmitter

- ANO20030400LEG
- ANO20020201CLK
- ANO20030500CMR

Those transmitters are to be certified separately with the applying module. The RF Safety evaluation with the collocating transmitters is examined by each application document of those dominant transmitters, so this application does not include it.

5. Submittal documents

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