

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

Model Number: T60H786-U

Document Number: FCC 19-0277-0

FCC ID: ANO20030500CMR

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EMC Advisory R&D Engineer

Toshiya Murota

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

System Solution and Technology Manager

Hirohide Komiyama

Signature: 

IBM Japan, Ltd.

Portable Systems

LAB-R75

1623-14, Shimotsuruma,

Yamato-shi Kanagawa-ken 242-8502, Japan

Phone: +81-46-215-2725

Portable Systems Director

for Masaki Kobayashi

Signature: 

IBM Japan, Ltd.

Portable Systems

LAB-R70

1623-14, Shimotsuruma,

Yamato-shi Kanagawa-ken 242-8502, Japan

Phone: +81-46-215-3889

Outline of Submission

1. Objective

This is a certification compliance test report for **Class II permissive change** of the following LMA transmitter device pursuant to FCC Part 15 subpart C (Intentional Radiator).

- FCC ID : **ANO20030500CMR**
- Model Number : T60H786-U
- Advertising Name : IBM 11b/g Wireless LAN Mini PCI Adapter
- Grant dates : Dec./19/2003, Mar/24/2004, May/04/2004

There is no hardware nor electrical modification made to the applying modular transmitter itself, but the following new antenna system (host PC device) is to be added in this Class II change application.

- IBM ThinkPad **G40** Series

2. Product Description

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

- IEEE802.11b (2412MHz ~ 2462MHz band Direct Sequence Spread Spectrum)
- IEEE802.11g (2412MHz ~ 2462MHz band OFDM)

3. Installation of the applying transmitter

The applying modular transmitter is pre-installed by IBM for the host device (IBM ThinkPad G40 Series), and no option card is provided for user installation due to the intricate location of mini-PCI card slot (Refer to the separate exhibit "Antenna_Info.pdf"). A broken card is replaced by IBM service center or responsible dealers.

Though the LMA transmitter is not user installable, the electrical unique connector (so called "**BIOS Lock**") is employed for the host device (ThinkPad G40 Series) to satisfy the FCC Part 15.203 or RSS-210 §5.5.

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

4. Co-located Transmitters

No co-located transmitter that emits RF frequency simultaneously with the applying device is supported for this host device (IBM ThinkPad G40 Series).

5. Related Submittal(s)/Grant(s)/Notes

During the applying modular device stops RF transmission, the host unit with full peripheral devices including the applying modular device is classified as an unintentional radiator, Digital Device under the FCC Part 15 Subpart B or the Industry Canada Class B Emission Compliance (ICES-003), and subject to DoC.

6. Submittal documents

● Product Labeling	Yes
● LAM Qualification	omitted (identical with the original filing)
● 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)
● 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
● Users Manual	Yes