

Applicant : Toshiba Corporation

FCC ID: CJ6UPA3233WL

TCB Assessment no:AN02T2391 ( DTS ) and AN02T2392 ( UNII)

Question #1: MB22 is a 802.11 a/b transmitter module which is seeking full module approval. On Nov. 05, 2002, you provide the module installation procedures in two typical notebook computer. I attached this installation procedures for your quick reference.

Per 15.407 (d) of FCC rules, for UNII device operates in 5.15-5.25GHz band, the transmitter must be equipped with integral antenna. In your installation instruction, I have no problem with installation procedures for device installed in TECRA 9000 notebook computer. The mini PCI is located in the area where the end user has not need to access. I consider MB22 installed in TECRA 9000 complies with integral antenna requirements.

However, I do not consider this is the case when MB22 is installed in Portege 4000. There are only two screws on the bottom of notebook computer. User can easily access the MB 22. In order to comply with integral antenna requirement, I will require the following :

When MB 22 is installed in the Portege 4000, after the antennas are connected to MB22, Toshiba needs to apply Epoxy ( Type of Epoxy and Model no needs to provide ) to the antenna connectors which make the antennas permanently attached to the MB22. Please consider this requirement and modify the installation procedures.

Reply to Question #1:

The modification point is :

The access door of Mini PCI Wireless LAN is fixed by 'Special Screw'.

Please see page 3 and 5.

End user never access Mini PCI WLAN by above procedure.

We have decided above procedure based on the information below from Peter san.

>Under FCC, "Caution: Exposure to Radio Frequency Radiation, it is specified that antenna used in the 5.15-5.25 GHz frequency band must be integral antenna which provides no access to the end user.

>Please advise as to how you intend to make the connection inaccessible:

- > -By providing a permanent connection, such as, the connectors are glued together.
- > -FCC has indicated that they will also accept some means of making the access door
- > inaccessible by using a special screw, requiring a special tool to open it



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Best Regards

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