

# Outline of Submission

## 1. Objective

This is a Certification Compliance Report for FCC Part 15 subpart C, DTS device.

- The applying equipment : ThinkPad T40 Series
- FCC ID : **ANO20020302R1L**

The device is **composite equipment** with the same FCC ID of Part 15 subpart E, U-NII device.

## 2. Installation of the applying transmitter

The built-in wireless LAN module is **preinstalled by IBM**. According the FCC Part 15.407(d), a **tamperproof structure** is employed so that the applying wireless module is not able to be removed nor plugged in by users.

Since users can not access to the card, IBM or a responsible party will replace a broken card with a spare part. Refer to “Circuitry Description” document, and page 6 of User’s Manual.

## 3. Product Description

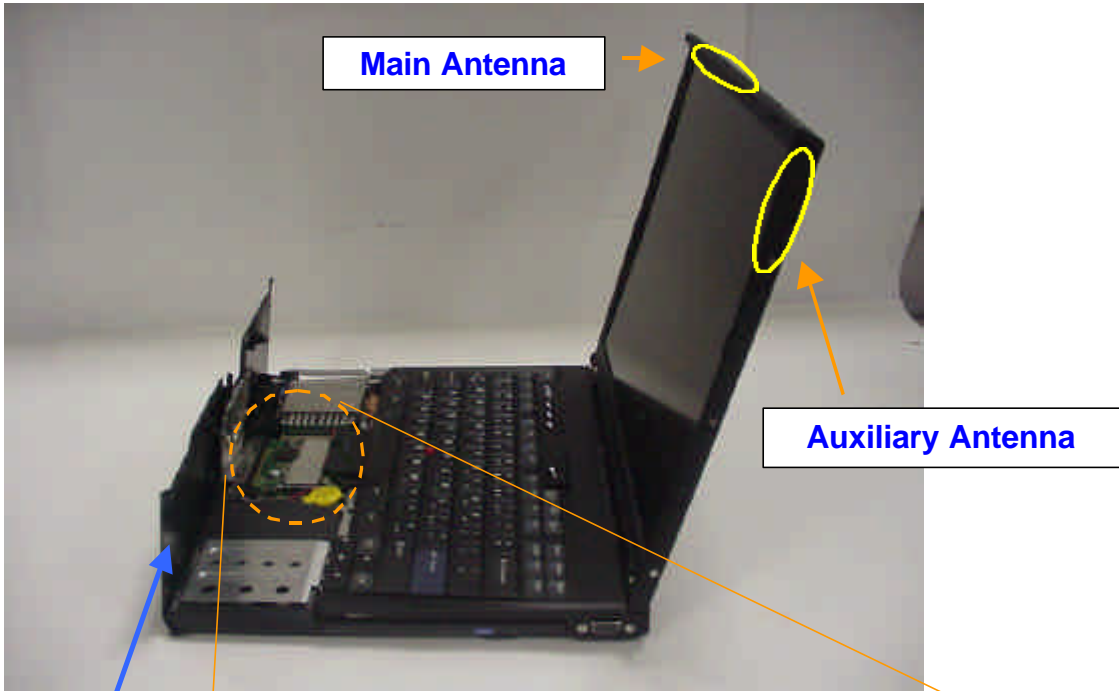
The applying equipment is a standard size laptop computer integrating IEEE 802.11 a & b combo Wireless LAN function inside. The wireless module consists of an OEM card (Philips Components, **Model No: PH11107-X**, 802.11 Combo Mini-PCI WLAN Card) and built-in antennas (Inverted F-figure Dual bands antennas × 1, Dual-band Coupled Floating Element Antenna × 1). The specifications of the applying wireless LAN card and the built-in antennas are as follows.

### Specification of Wireless-LAN feature

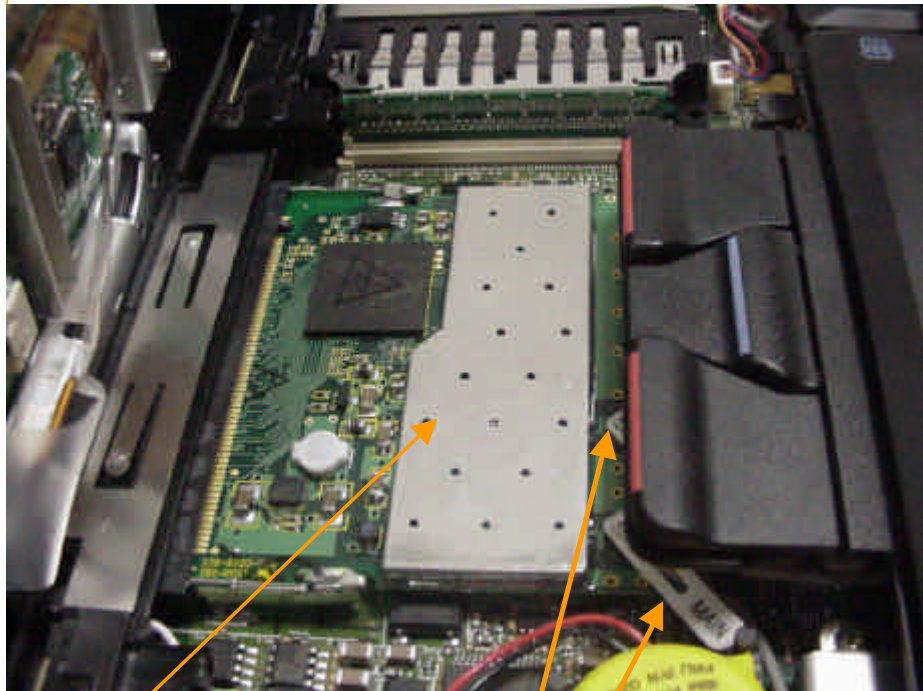
IBM product name of wireless Card	IBM Dual-Band 11a/b Wi-Fi® Wireless Mini PCI Adapter	
Carrier Frequencies	2412MHz ~ 2462MHz	5745MHz ~ 5825MHz
Antenna gain	Maximum peak 0.99 dBi	Maximum peak -0.23 dBi
Conducted transmission power	Maximum 17 dBm	Maximum 16 dBm
Antenna type	Main antenna: P/N: 62P4204 Dual-band Inverted F-figure type antenna	
	Auxiliary antenna: P/N: 62P4203 Dual-band Coupled Floating Element Antenna	
Antenna cable type And length	Main antenna: coax 740 mm Auxiliary antenna: coax 860 mm	

## 4. Mounting structure of Wireless LAN card and Antenna

The inverted F-figure type antenna is built in the top of the LCD, and the coupled floating element antenna is built in the right side of the LCD. Those diversity antennas are not used simultaneously. One of the antennas is selected automatically or manually to have a good quality of radio communication. The selected antenna performs transmission or receiving in half duplex alternatively.



The palm-rest cover is fixed with a **special screw** so that the wireless module is not removed.



Mini-PCM WLAN module

Antenna Cables