

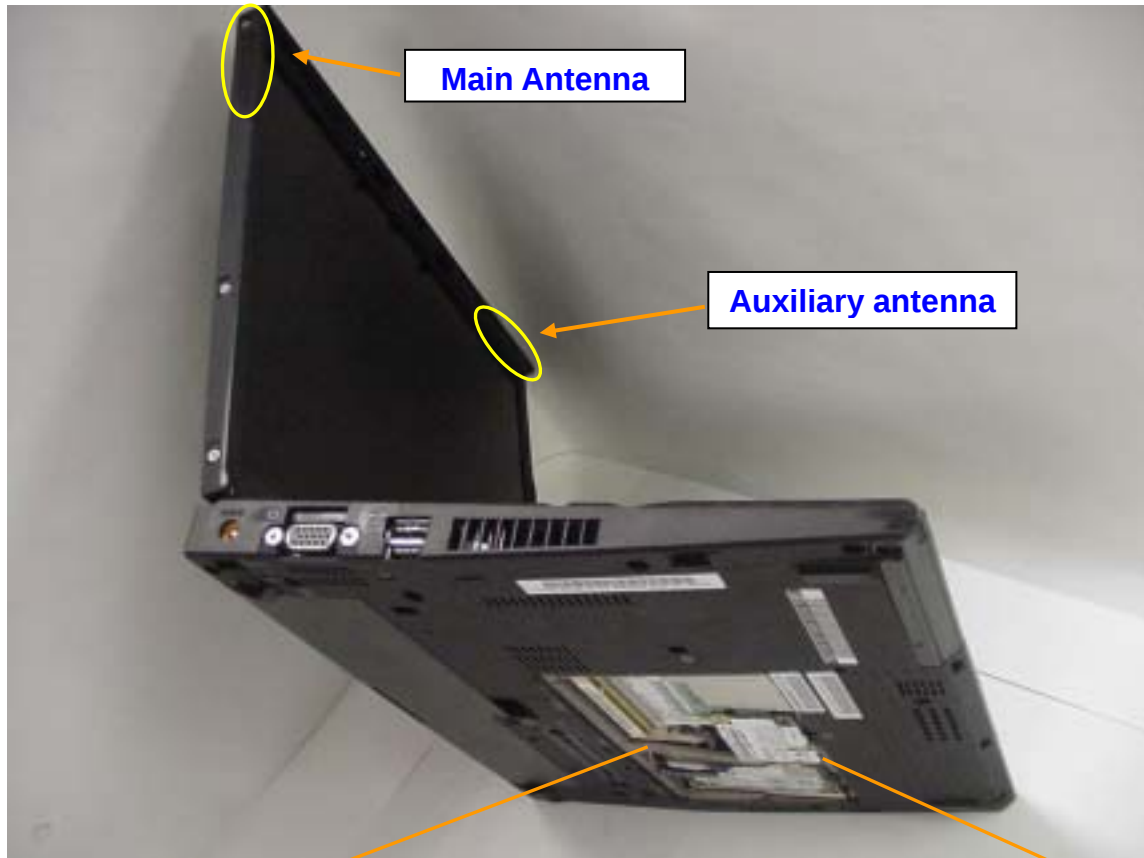
Host Unit Antenna Information for ThinkPad X40 Series

1.	HOST PC INFORMATION	2
2.	HOST PC LABELING	4
3.	ANTENNA SPECIFICATIONS	6
3.1	TRANSMISSION ANTENNA ASSEMBLY OVERVIEW	6
3.2	ANTENNA PHOTOS	7

1. Host PC Information

The main antenna, meander type, is built in the left top side of LCD and the auxiliary antenna, meander type, is built in the top right side of LCD as shown in the Photo.

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.



FCC ID and IC's Certification Number is visible when the Customer Access Panel is removed.

Mini-PCI card slot and Transmitter module



IBM ThinkPad X40 Series



Front View



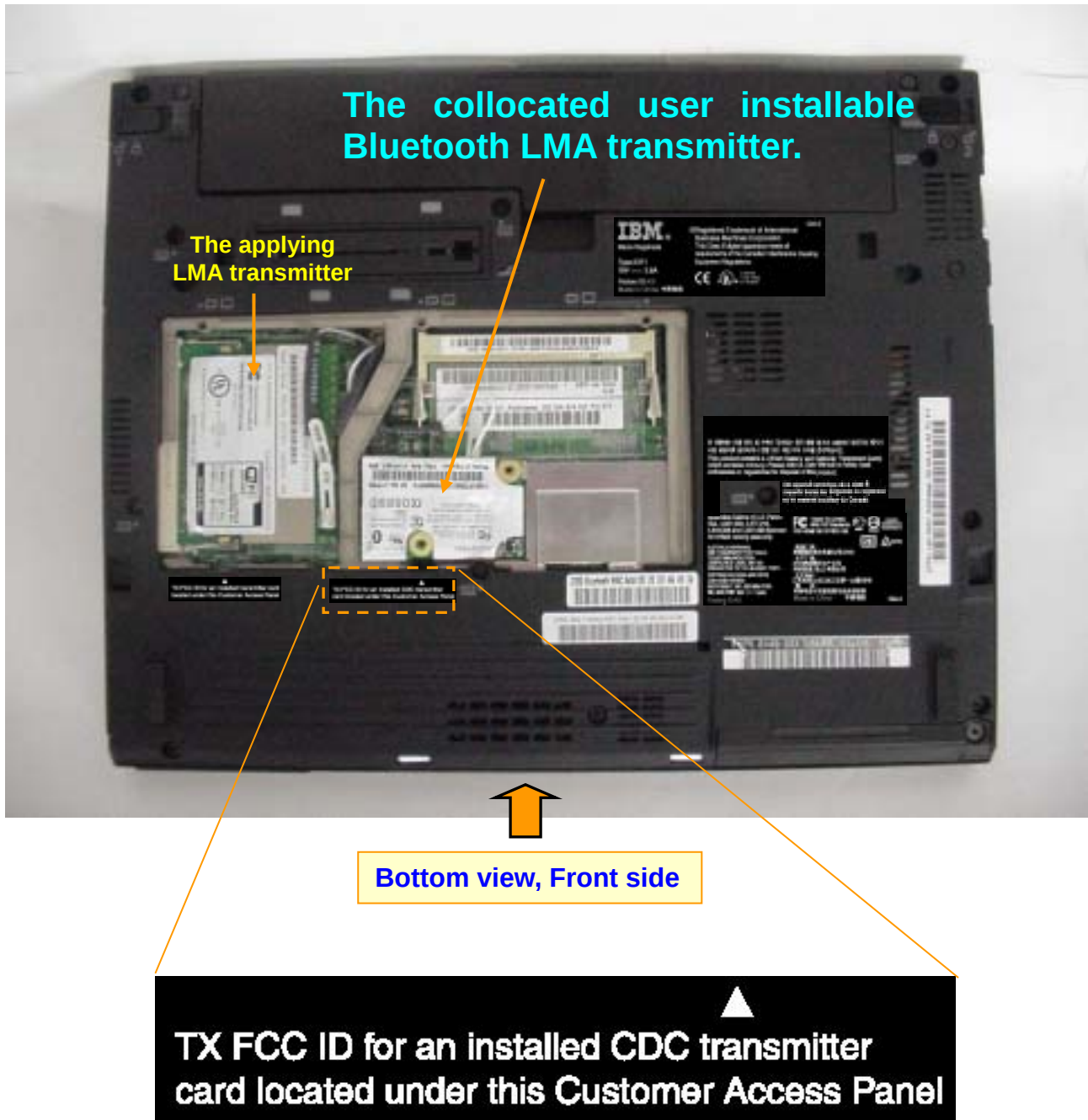
Rear View

2. Host PC Labeling



Label for a different model of the host PC (ThinkPad X40 Series)

The model (X40) supports the applying transmitter and a built-in type Bluetooth LMA transmitter which is to be certified separately as the FCC ID: ANO20020100MTN.



3. Antenna Specifications

3.1 Transmission Antenna assembly overview

Designator	Manufacture	Antenna type	Cable type and length	Gain (dBi) Note 1)
13N5743 Main Antenna	Nissei Electric Co., Ltd. (Japan)	Dual Band Meander Antenna	Coax 488mm	2.4GHz band 0.39 dBi (peak)
				5.8GHz band 1.74 dBi (peak)
13N5742 Auxiliary Antenna	Nissei Electric Co., Ltd. (Japan)	Dual Band Meander Antenna	Coax 449mm	2.4GHz band 1.67 dBi (peak)
				5.8GHz band 2.04 dBi (peak)

Note 1):

1a. Includes all cable losses.

1b. Antenna type should be Omni Directional and have gain of 3.0 dBi or less for IEEE802.11a(5GHz band) and have gain of 2.0 dBi or less for IEEE802.11b/g(2.4GHz band), regarding the IBM internal specification.

3.2 Antenna Photos

Antenna Locations



Exterior Photos of Antennas

Main Antenna

Manufacturer: Nissei Electric Co., Ltd.
Parts Number: 13N5743
Type: Dual Band Meander
Cable: Coax, 488 mm



Auxiliary Antenna

Manufacturer: Nissei Electric Co., Ltd.
Parts Number: 13N5742
Type: Dual Band Meander
Cable: Coax, 449 mm

