Host Unit Antenna Information

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1. Antenna Assembly Overview

Note 1) 1a. Includes all cable losses. 1b. Antenna type should be Omni Directional.

IBM ThinkPad G40 Series

Designator	Manufacture	Antenna type	Cable type and length	Gain (dBi) Note 1)
R0222-099	SmartAnt Telecom	Dual Band Meander (Inverted F) Antenna	coax 570mm	2.4GHz band -0.25 dBi (peak)
Main antenna				5.8GHz band 3.15 dBi (peak)
R0222-100	-		coax 610mm	2.4GHz band 0.87 dBi (peak)
Auxiliary antenna				5.8GHz band 2.11 dBi (peak)

IBM ThinkPad X30 Series

Designator	Manufacture	Antenna type	Cable type and length	Gain (dBi) Note 1)
08K4083	Nissei Electric Co.	Dual Band Meander (Inverted F) Antenna	coax 394mm	2.4GHz band 0.62 dBi (peak)
Main antenna				5.8GHz band 0.32 dBi (peak)
08K4084			coax 534mm	2.4GHz band 1.28 dBi (peak)
Auxiliary antenna				5.8GHz band -0.87 dBi (peak)

IBM ThinkPad X40 Series

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

2. Antenna Info of ThinkPad G40 Series

2.1 Host PC Information

The two meander (Inverted F type) antennas are built in the top LCD bezel. 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.

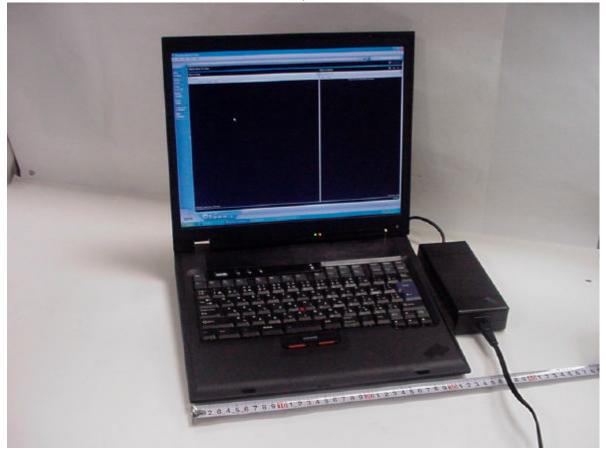


Prepared by T. Murota



IBM ThinkPad G40 Series, LCD 14 inch Model

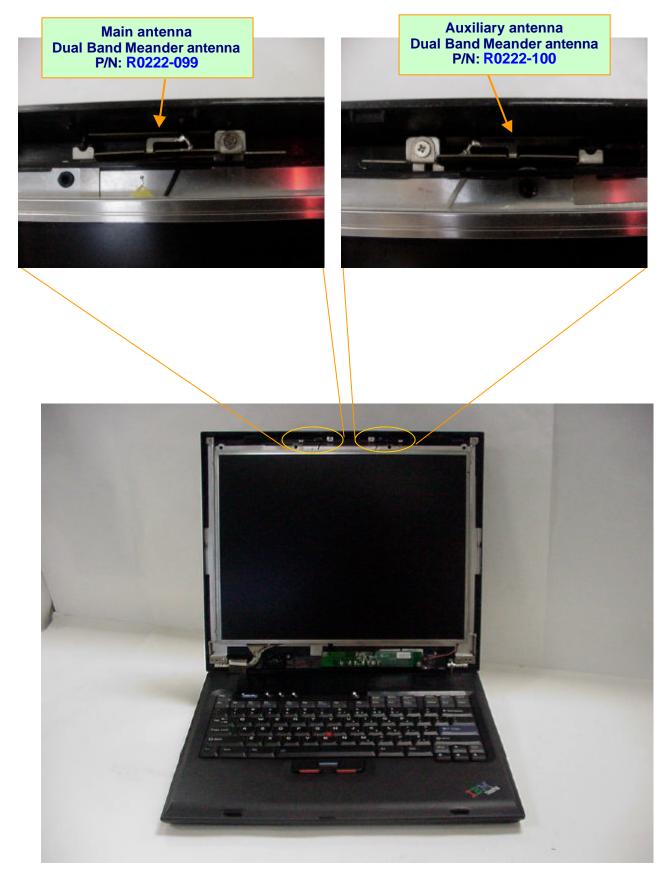
IBM ThinkPad G40 Series, LCD 15 inch Model



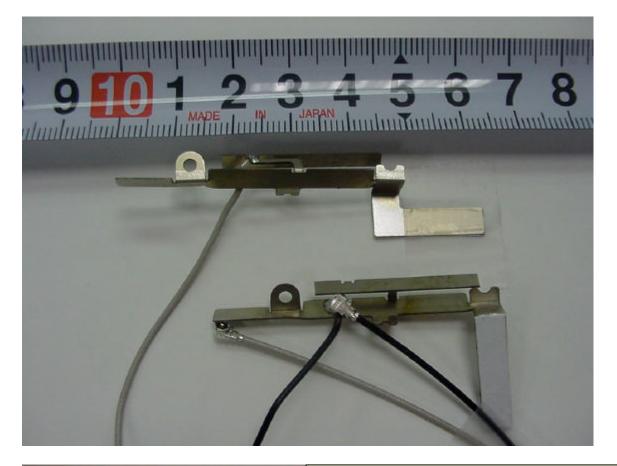
2.2 Host PC Labeling



2.3 Antenna Locations



2.4 Exterior Photos of Antennas

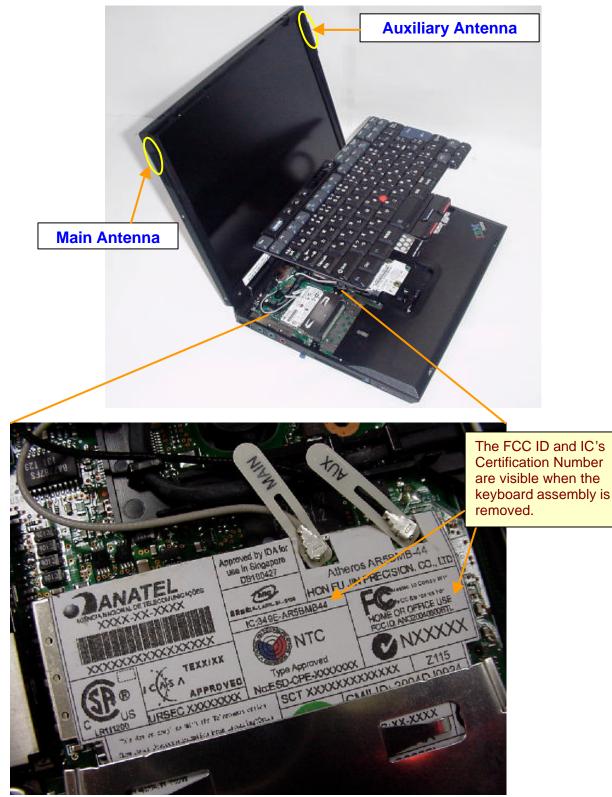




3. Antenna Info of ThinkPad X30 Series

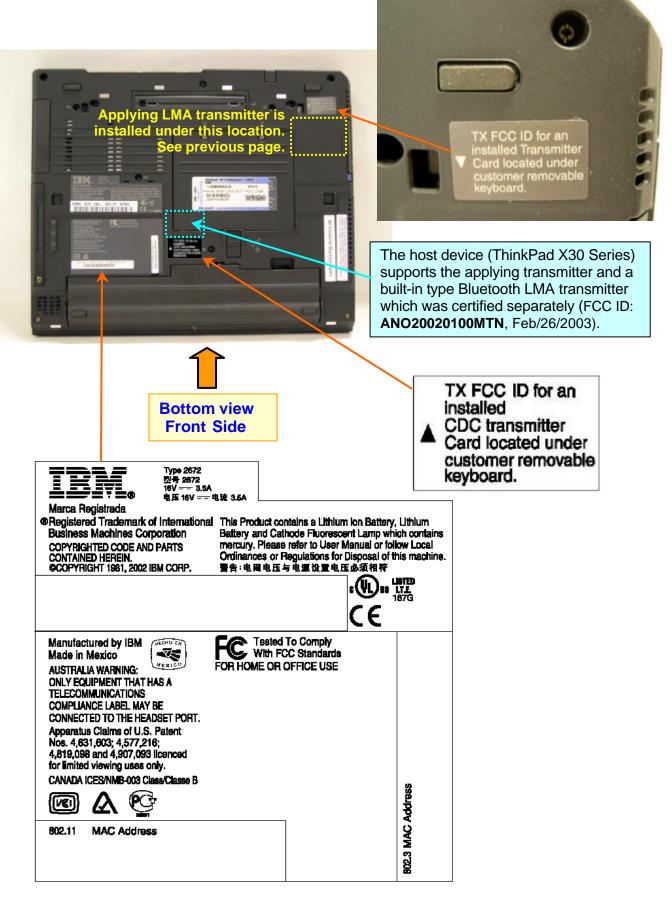
3.1 Host PC Information

The two Meander (Inverted F type) antennas are built in the left and right top sides 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.

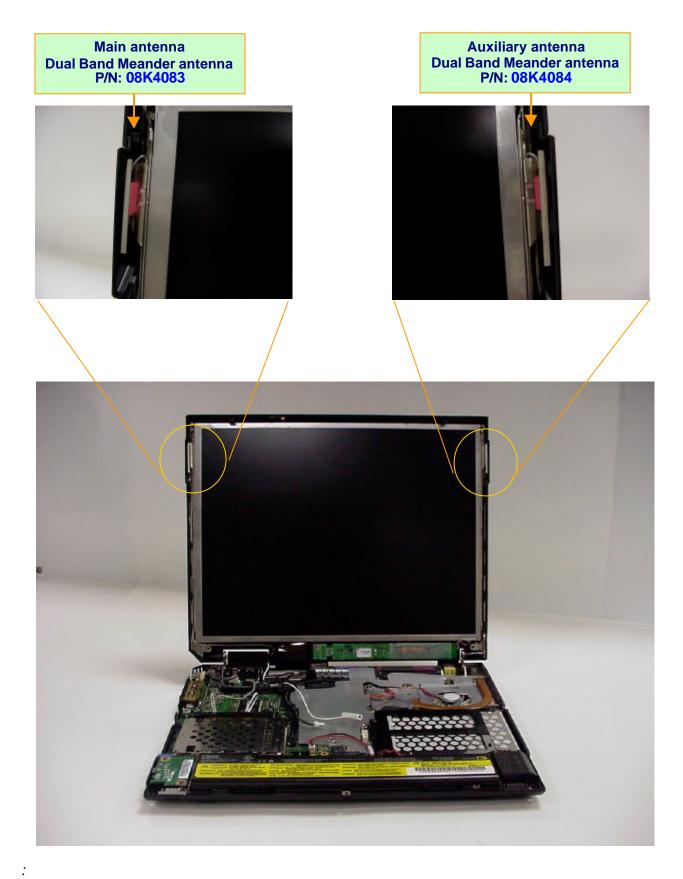


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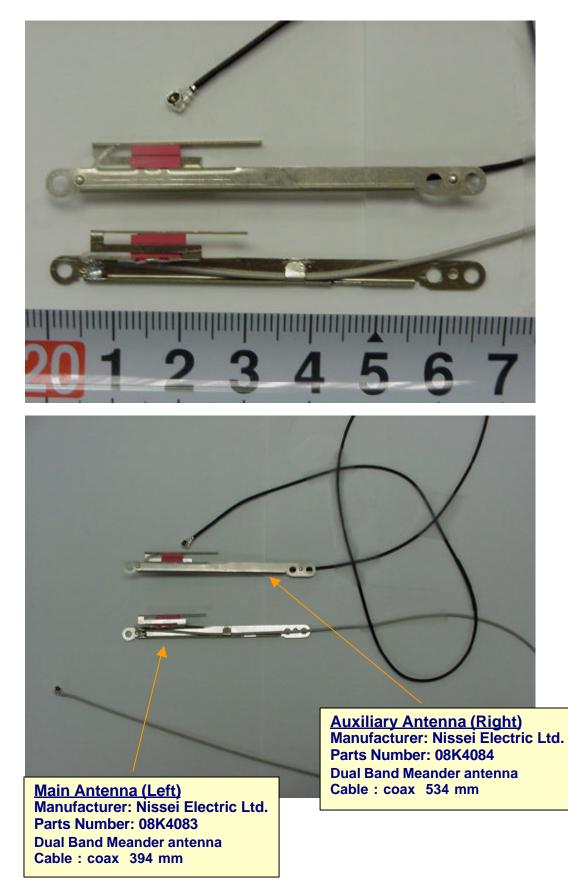
3.2 Host PC Labeling



3.3 Antenna Locations



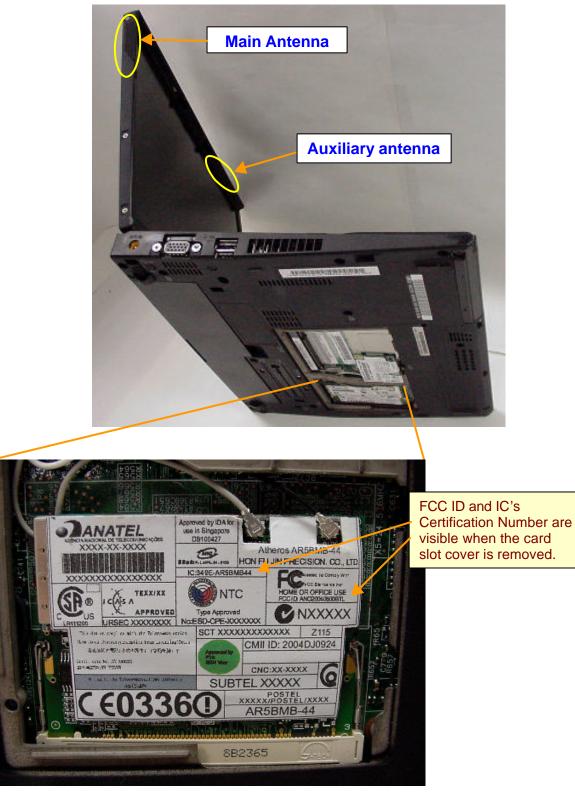
3.4 Exterior Photos of Antennas



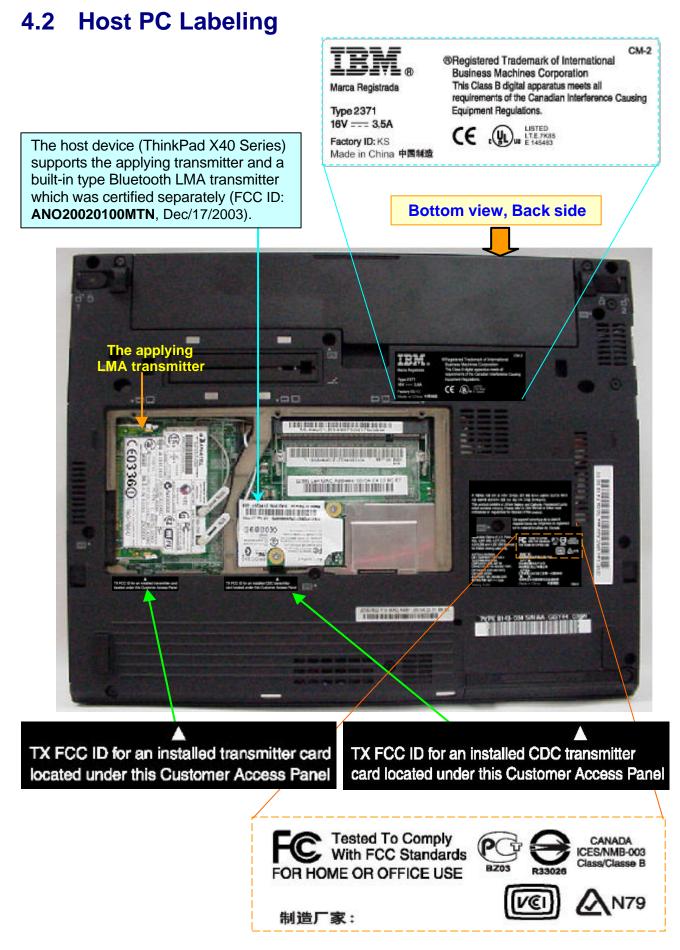
4. Antenna Info of ThinkPad X40 Series

4.1 Host PC Information

The main and auxiliary meander (Inverted F) antennas are built in the left and right top sides of LCD as shown in the Photo. Those diversity antennas are not used for transmission 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.



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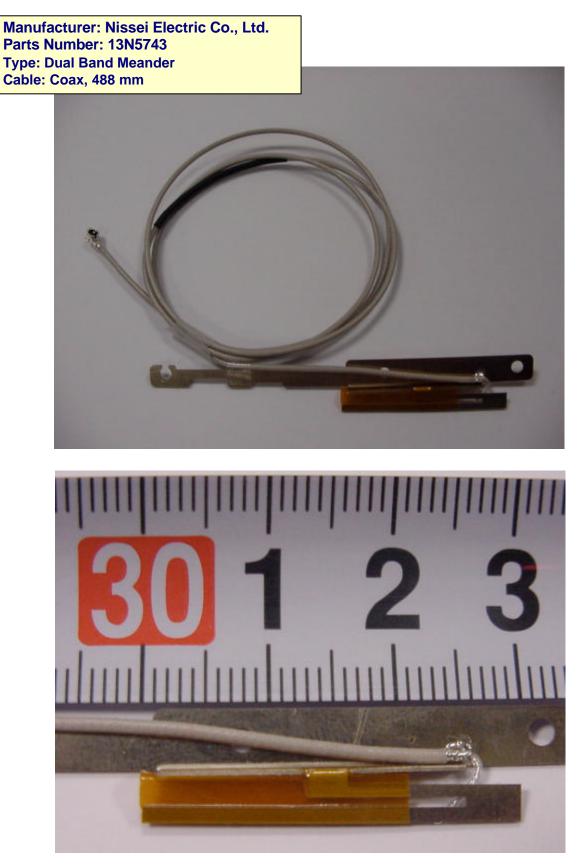


4.3 Antenna Locations



4.4 Exterior Photos of Antennas

Main Antenna



Auxiliary Antenna

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

