Host Unit Antenna Information

| 1. Ar | . Antenna Assembly Overview | | |
|-------|------------------------------------|---|--|
| 2. Ar | ntenna Info of ThinkPad G40 Series | | |
| 2.1 | Host PC Information | | |
| 2.2 | Host PC Labeling | | |
| 2.3 | Antenna Locations | | |
| 2.4 | Exterior Photos of Antennas | | |
| 3. Ar | ntenna Info of ThinkPad X30 Series | 8 | |
| 3.1 | Host PC Information | | |
| 3.2 | Host PC Labeling | | |
| 3.3 | Antenna Locations | | |
| 3.4 | Exterior Photos of Antennas | | |
| 4. Ar | ntenna Info of ThinkPad X40 Series | | |
| 4.1 | Host PC Information | | |
| 4.2 | Host PC Labeling | | |
| 4.3 | Antenna Locations | | |
| 4.4 | Exterior Photos of Antennas | | |

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.

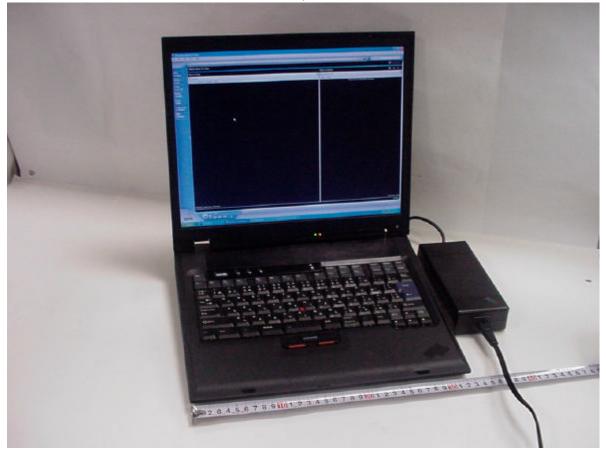


Prepared by T. Murota



IBM ThinkPad G40 Series, LCD 14 inch Model

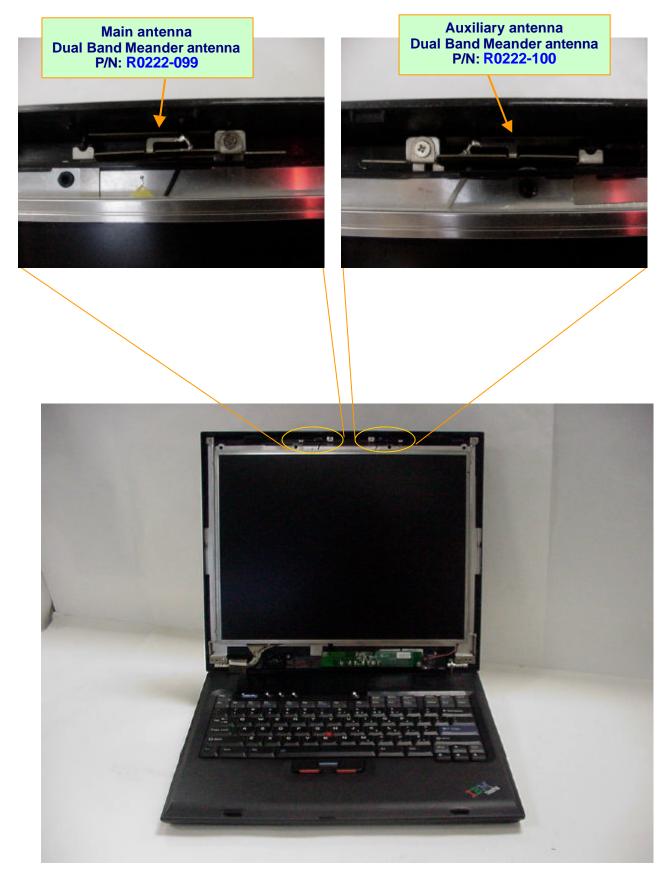
IBM ThinkPad G40 Series, LCD 15 inch Model



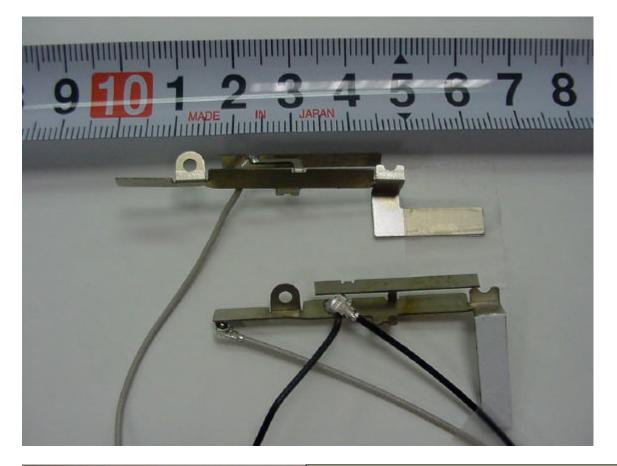
2.2 Host PC Labeling



2.3 Antenna Locations



2.4 Exterior Photos of Antennas

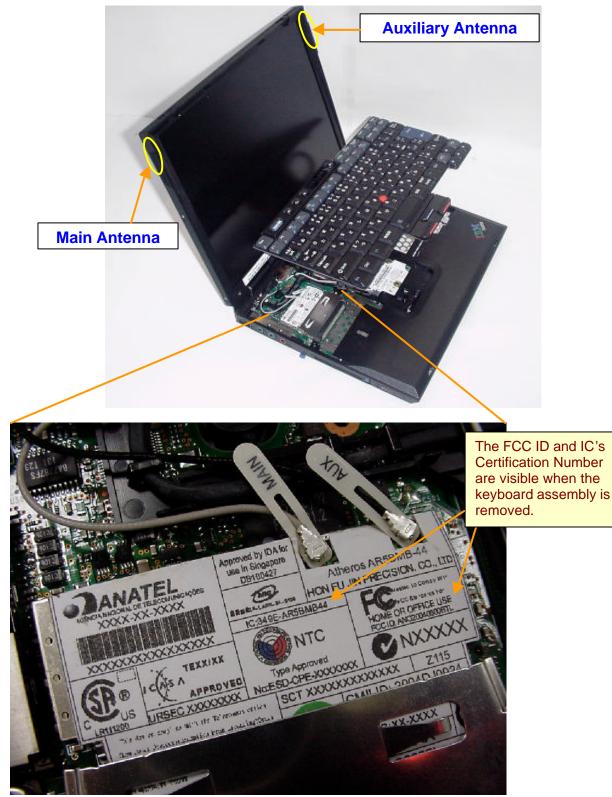




3. Antenna Info of ThinkPad X30 Series

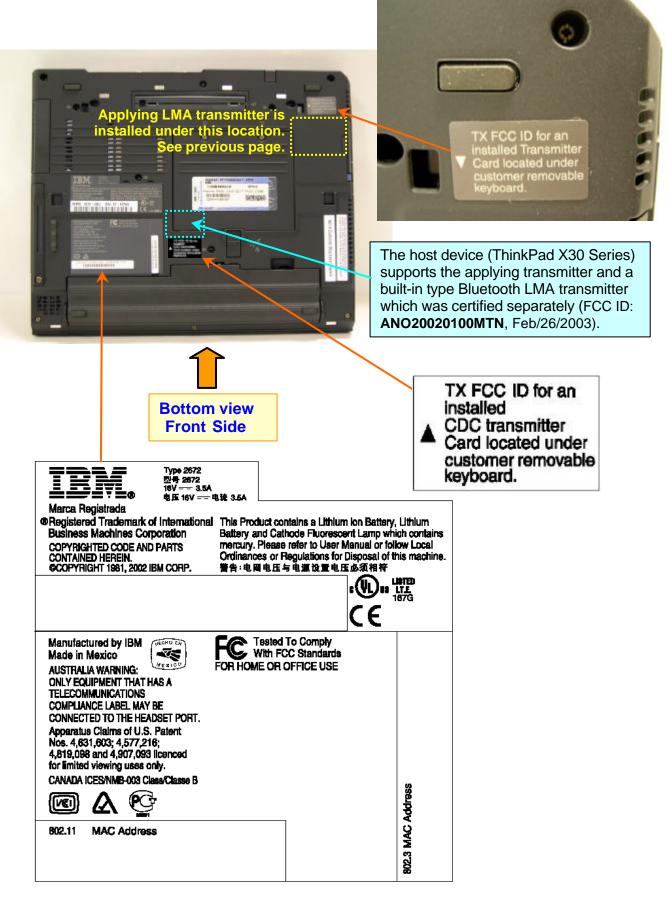
3.1 Host PC Information

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.

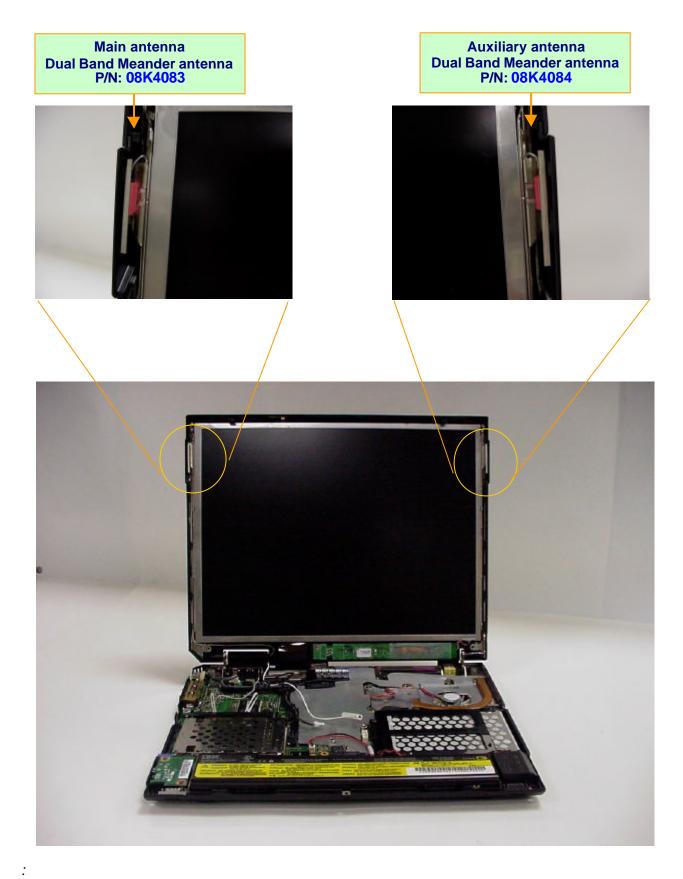


Prepared by T. Murota

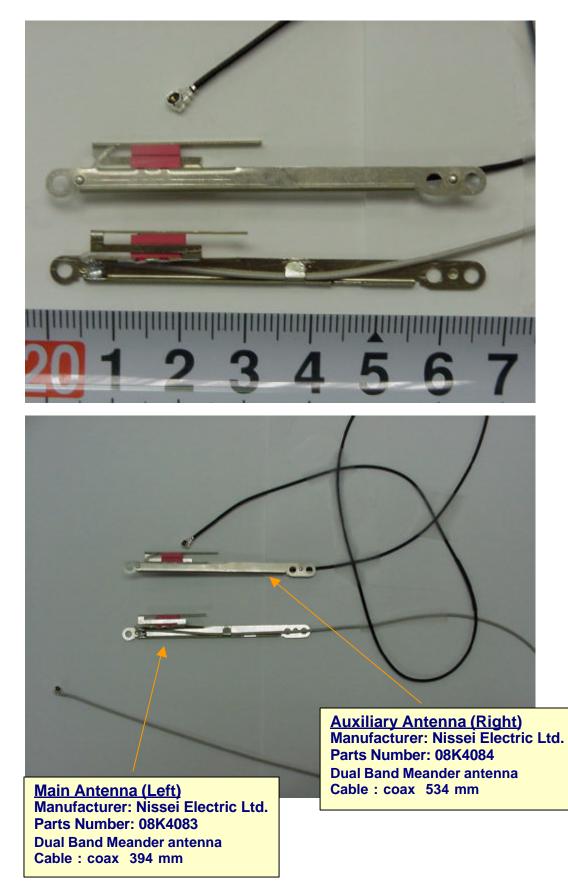
3.2 Host PC Labeling



3.3 Antenna Locations



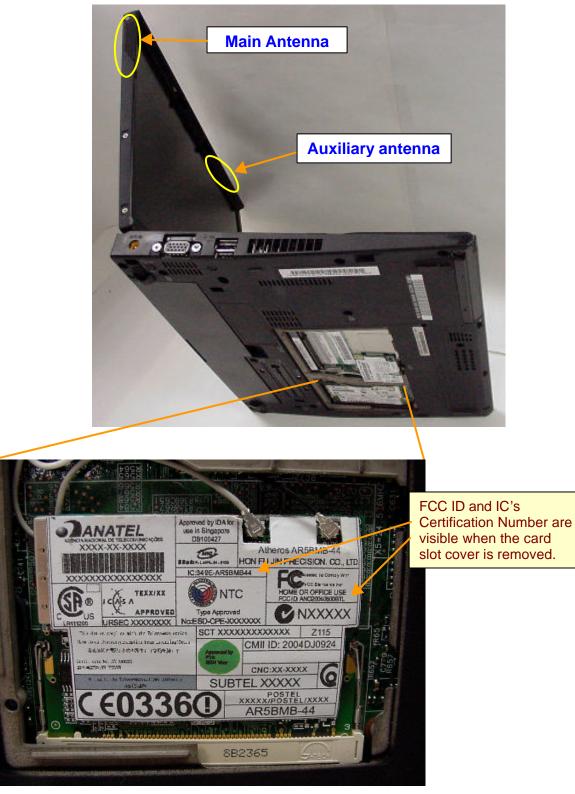
3.4 Exterior Photos of Antennas



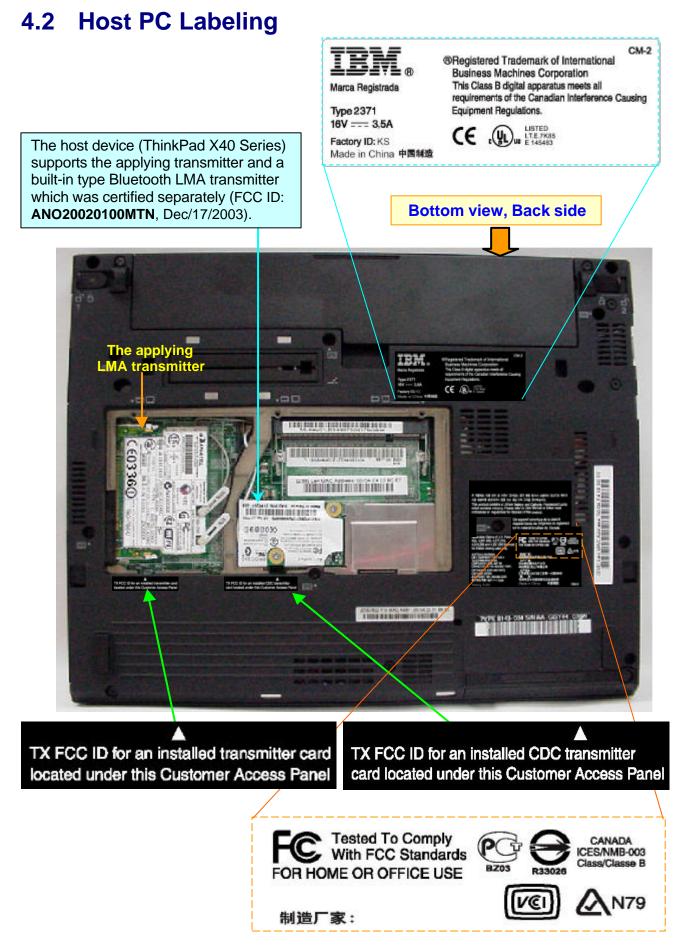
4. Antenna Info of ThinkPad X40 Series

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.



Prepared by T. Murota

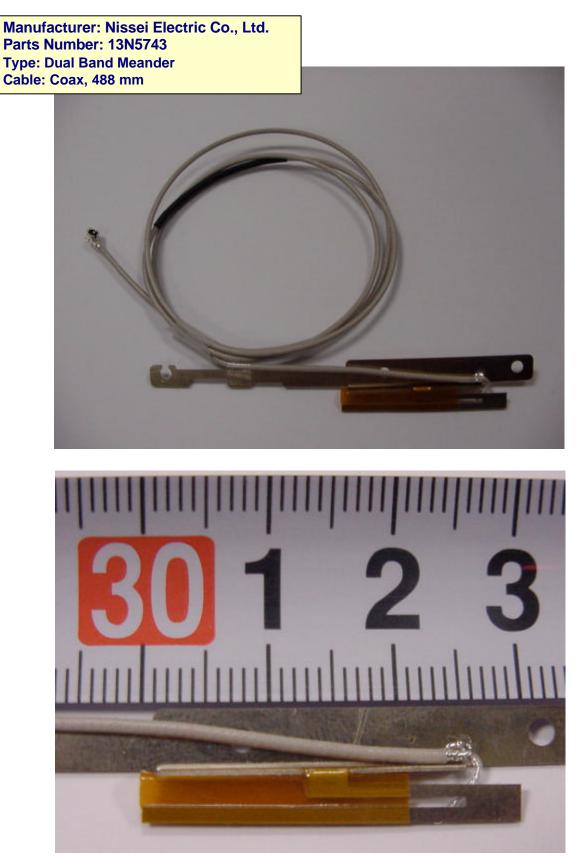


4.3 Antenna Locations



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

