Document Number: FCC-19-0192-0

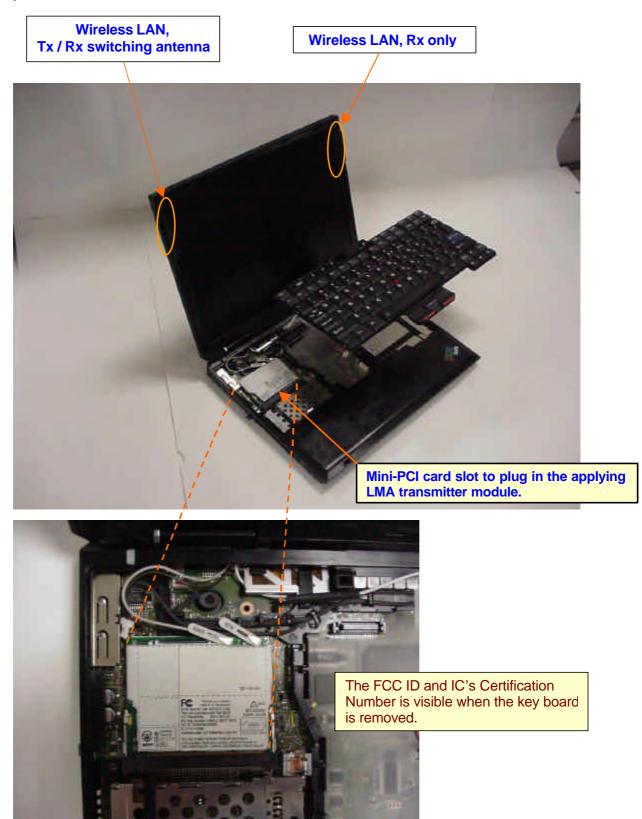
Host Unit Information of ThinkPad X30 Series

- Host PC Information
- Host PC Labeling
- Antenna Information

Host PC Information

Document Number: FCC-19-0192-0

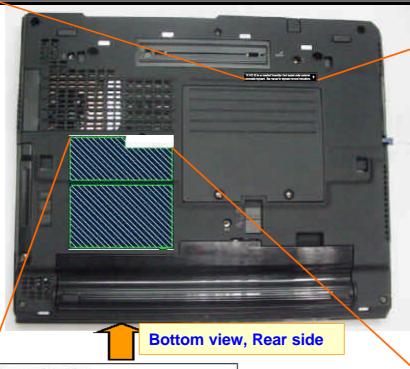
The left antenna in LCD is used for both RF transmission and receiving with half duplex switching mode. The right antenna is used for RF receiver only. When the Wireless LAN card is in RF receiving state, one of the antennas is selected automatically to have a good quality of radiocommunication



Host PC Labeling

TX FCC ID for an installed Transmitter Card located under customer removable keyboard. See manual for keyboard removal instructions.





IBM.

Type 2672 16V --- 3.5A

Marca Registrada

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BERICO

mercury. Please refer to User Manual or follow Local Ordinances or Regulations for Disposal of this machine. 802.11b MAC Address

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

CANADA ICES/MIB-003 Class/Classe B

AUSTRALIA WARNING:
ONLY EQUIPMENT THAT HAS A
TELECOMMUNICATIONS
COMPLIANCE LABEL MAY BE
CONNECTED TO THE HEADSET PORT.
Apparatus Claims of U.S. Patent

This Product contains a Lithium Ion Bettery, Lithium Battery and Cathode Fluorescent Lamp which contains

> Appenatus Claims of U.S. Patent Nos. 4,631,503; 4,577,216; 4,819,098 and 4,907,093 licenced for limited viewing uses only.





802.3 MAC Address

Antenna Information

1. Antenna Specification

Transmission Antenna assembly overview

Designator	Manufacture	Antenna type	Cable type	Gain (dBi)
(Parts Number)			and length	Note 1)
LCD left antenna 46L4677	IBM Japan Ltd.	Inverted F type Antenna	coax 380mm	1.42 dBi (peak)
LCD right antenna 46L4676			coax 520mm	1.24 dBi (peak)

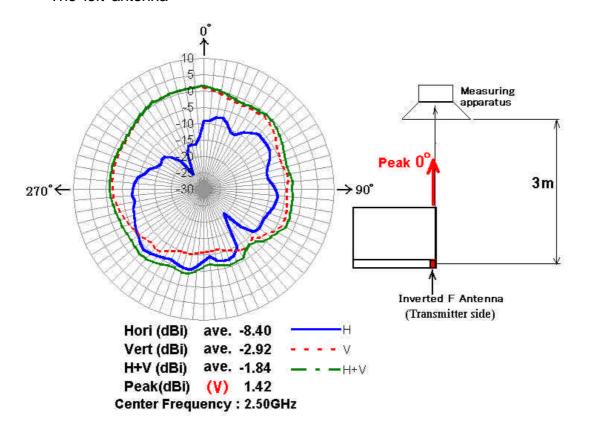
Document Number: FCC-19-0192-0

Notes:

- 1a. Includes all cable losses
- 1b. Antenna type should be Omni Directional and have gain of 3.0 dBi or less regarding the IBM internal specification.

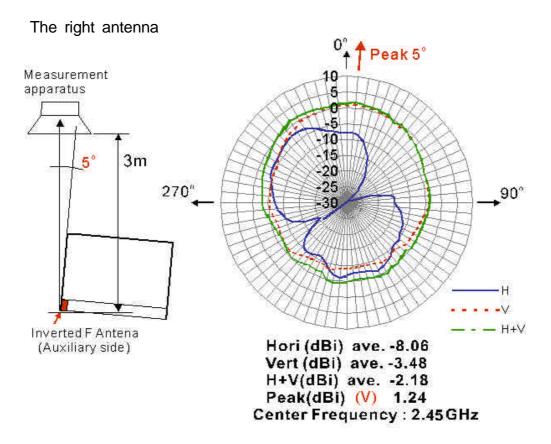
2. Radiation characteristic of antenna

The left antenna



Note1) The measurement was performed at 3 frequencies (2400, 2450, 2500MHz).

Note2) The maximum antenna gain was found around **0 degree** angle from measuring apparatus in **vertical** polarization at the highest frequency(2.50GHz).

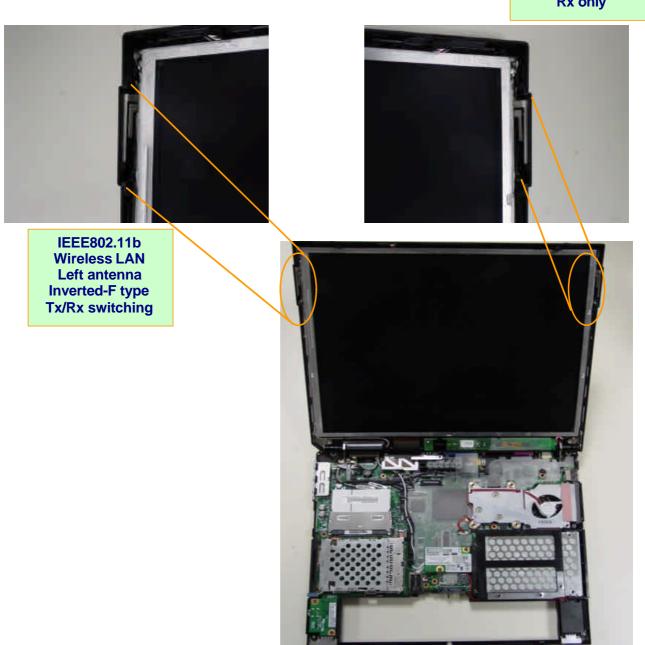


Note1) The measurement was performed at 3 frequencies (2400, 2450, 2500MHz).

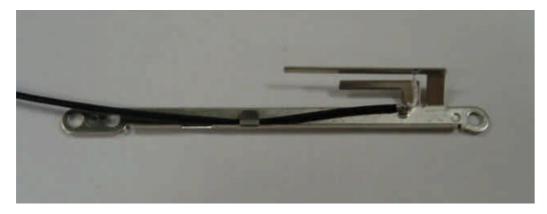
Note2) The maximum antenna gain was found around **5 degree** angle from measuring apparatus in **vertical** polarization at the middle frequency (2.45GHz).

3. Antenna Locations

IEEE802.11b Wireless LAN Right antenna Inverted-F type Rx only



4. Exterior Photos of Antennas







Left antenna (Tx/Rx switch): IBM P/N: 46L4677 Cable: coax 380 mm Right antenna (Rx only): IBM P/N: 46L4676 Cable: coax 520 mm