

# **Host Unit Information of ThinkPad X30 Series**

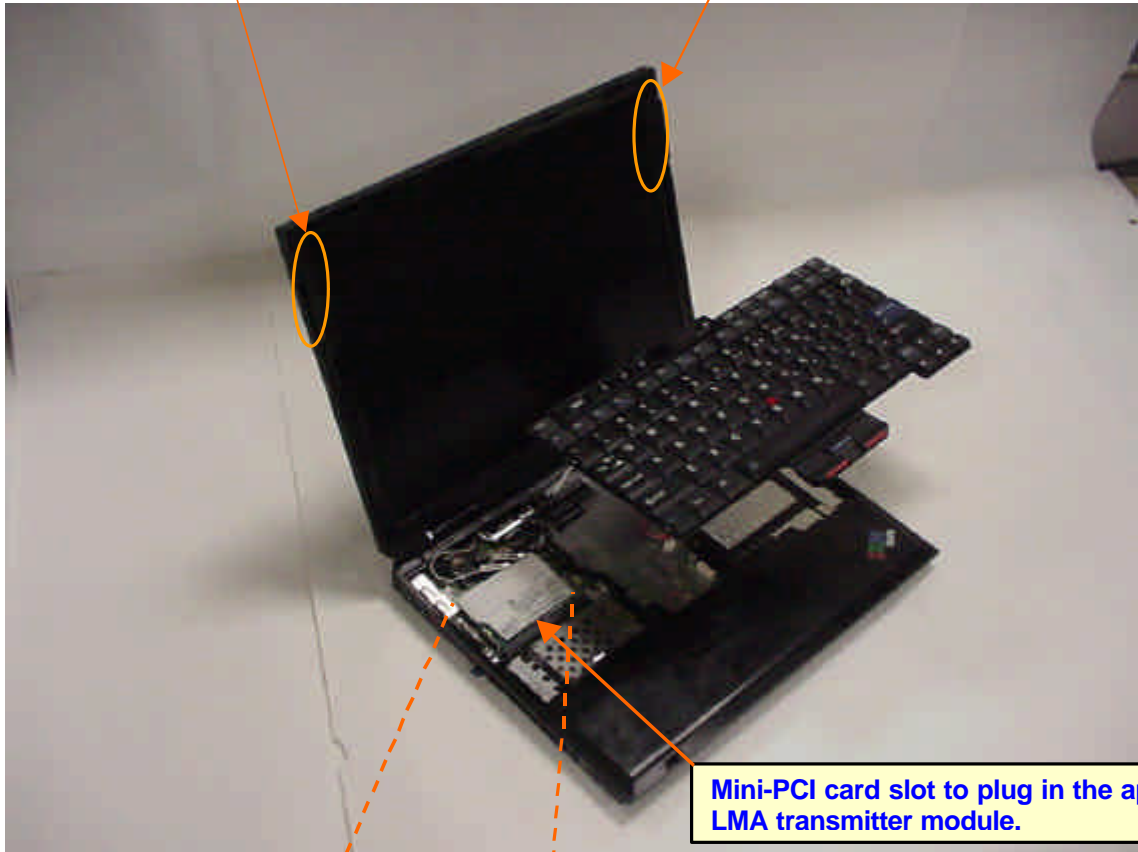
- **Host PC Information**
- **Host PC Labeling**
- **Antenna Information**

# Host PC Information

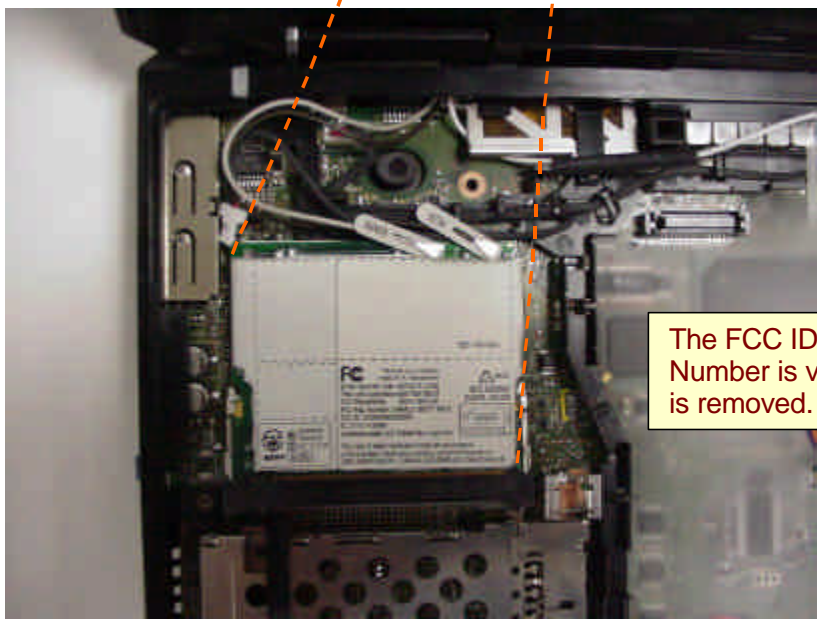
The left antenna in LCD is used for both RF transmission and receiving with half duplex switching mode. The right antenna is used for RF receiver only. When the Wireless LAN card is in RF receiving state, one of the antennas is selected automatically to have a good quality of radiocommunication

Wireless LAN,  
Tx / Rx switching antenna

Wireless LAN, Rx only



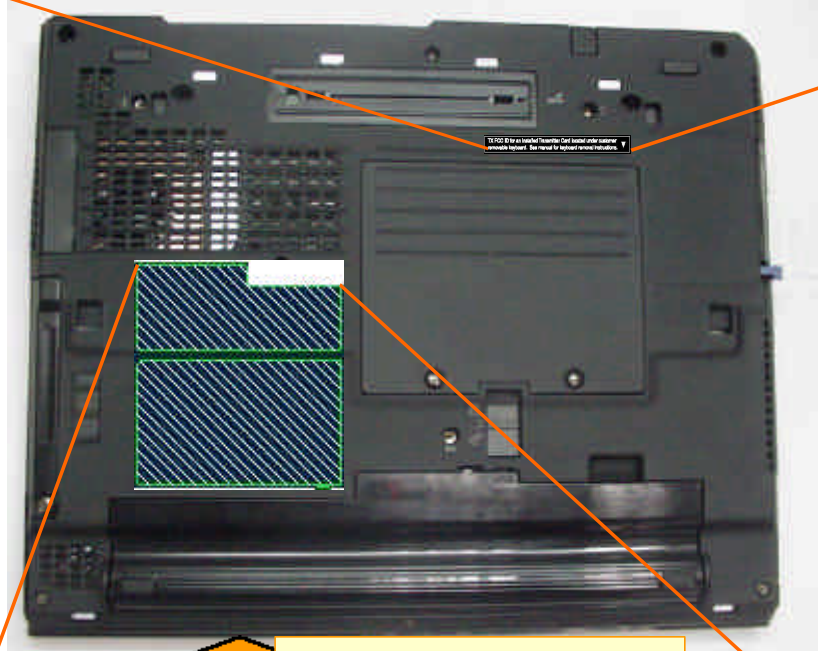
Mini-PCI card slot to plug in the applying LMA transmitter module.









The FCC ID and IC's Certification Number is visible when the key board is removed.

# Host PC Labeling

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



**Bottom view, Rear side**

	Type 2672 16V --- 3.5A
Marca Registrada ©Registered Trademark of International Business Machines Corporation COPYRIGHTED CODE AND PARTS CONTAINED HEREIN. ©COPYRIGHT 1981, 2002 IBM CORP. Manufactured by IBM Made in Mexico 	This Product contains a Lithium Ion Battery, Lithium Battery and Cathode Fluorescent Lamp which contains 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/IMB-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 Nos. 4,631,603; 4,577,216; 4,819,088 and 4,807,083 licenced for limited viewing uses only.     UL LISTED I.T.E.167G
802.3 MAC Address	

# Antenna Information

## 1. Antenna Specification

Transmission Antenna assembly overview

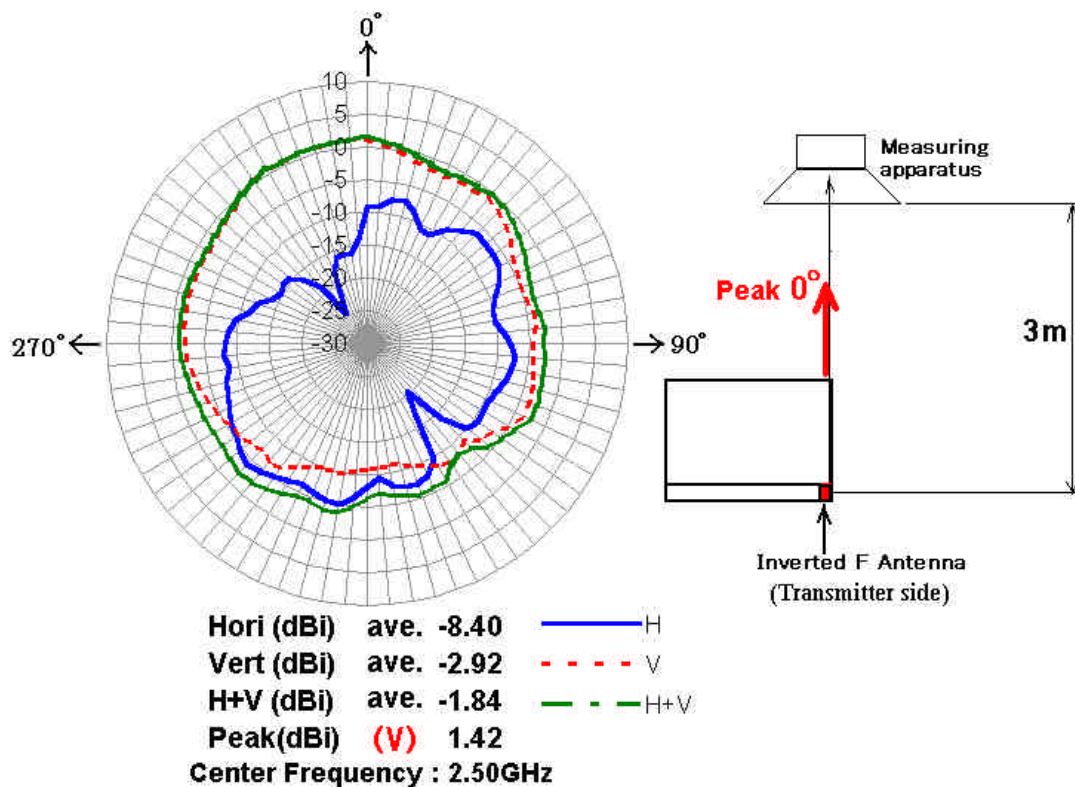
Designator (Parts Number)	Manufacture	Antenna type	Cable type and length	Gain (dBi) Note 1)
LCD left antenna 46L4677	IBM Japan Ltd.	Inverted F type Antenna	coax 380mm	1.42 dBi (peak)
LCD right antenna 46L4676			coax 520mm	1.24 dBi (peak)

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

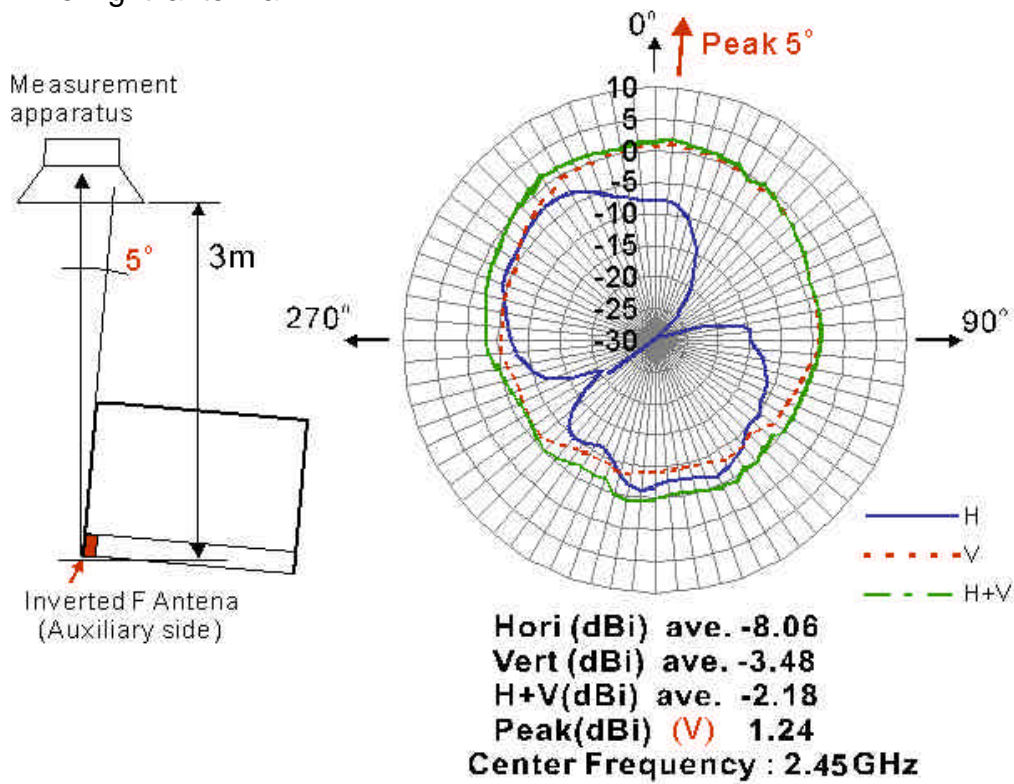
The left antenna



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).

The right antenna



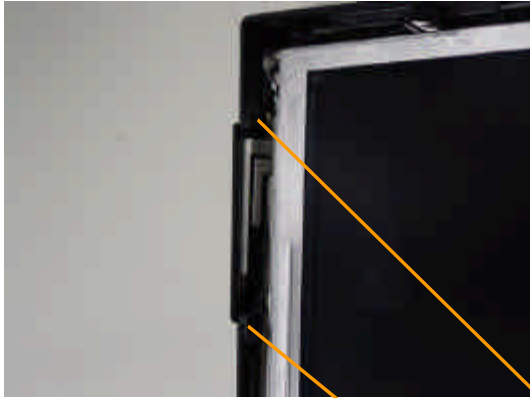
Note1) The measurement was performed at 3 frequencies (2400, 2450, 2500MHz).

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

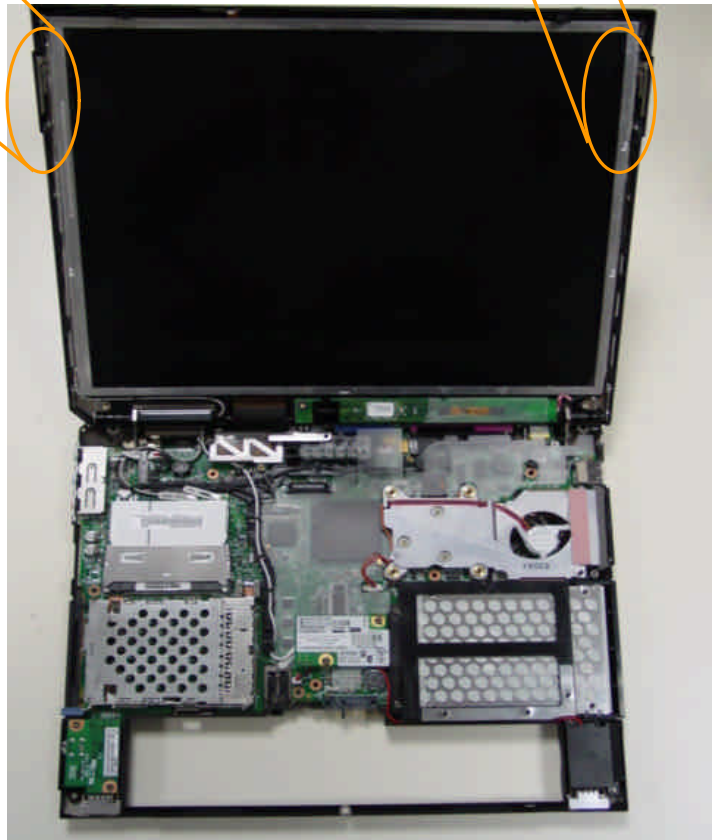
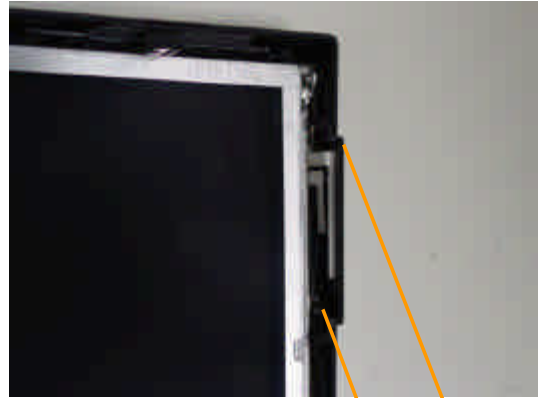


### 3. Antenna Locations

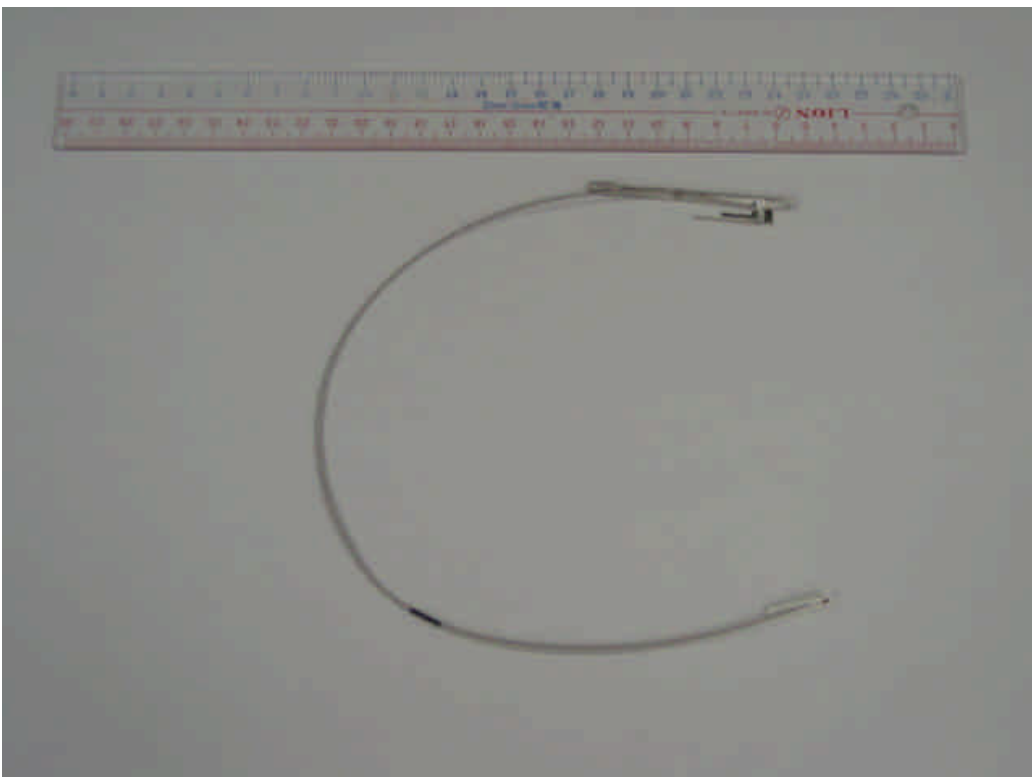
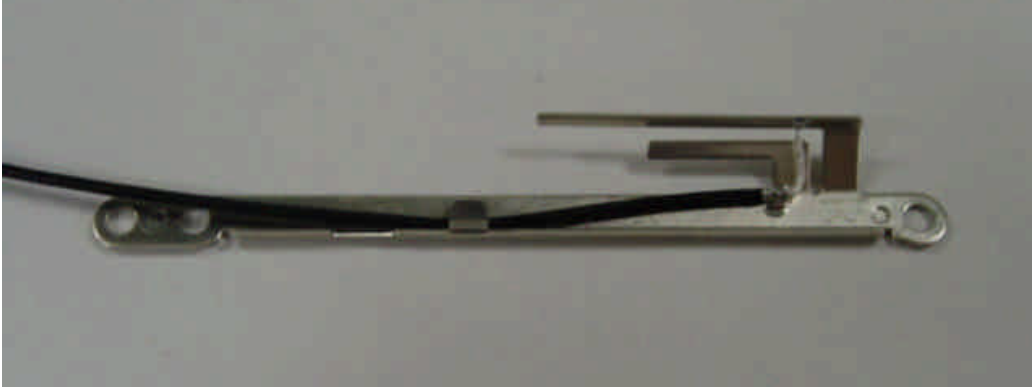
IEEE802.11b  
Wireless LAN  
Right antenna  
Inverted-F type  
Rx only



IEEE802.11b  
Wireless LAN  
Left antenna  
Inverted-F type  
Tx/Rx switching



**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**