#### Document Number: FCC-19-0190-0

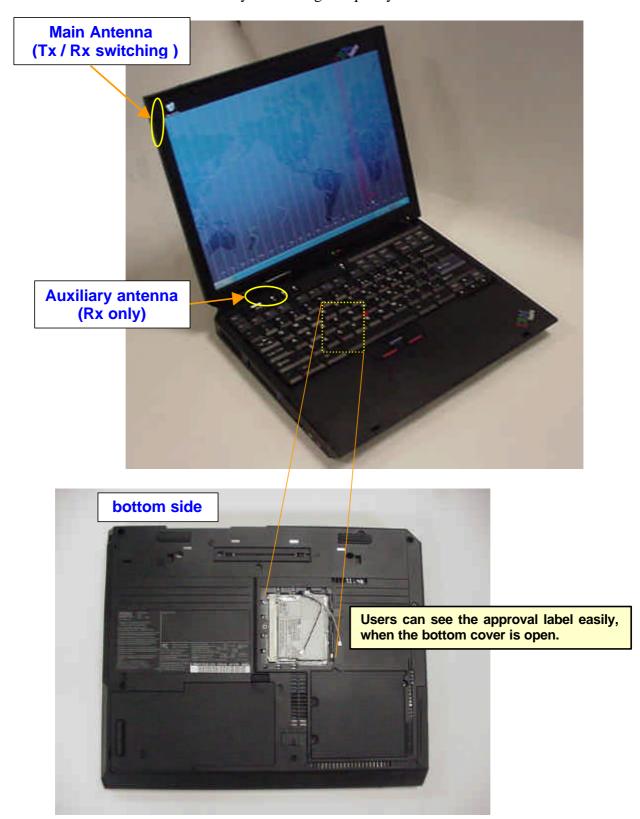
# Host Unit Information of ThinkPad R32 Series

- Host PC Information
- Host PC Labeling
- Antenna Information

# **Host PC Information**

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note) The main antenna in left side of LCD is used for both RF transmission and receiving with half duplex switching mode. The auxiliary antenna near the key board hinge portion is used for RF receiver only. When the Wireless PC card is in RF receiving state, one of the antennas is selected automatically to have a good quality of radiocommunication.



The ThinkPad R32 Series has 2 kinds of LCD panel.

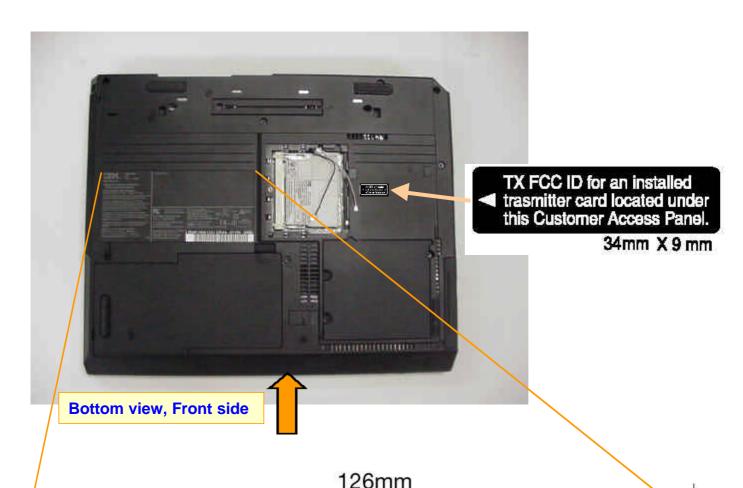
**LCD 13 inch Model** 



**LCD 14 inch Model** 



# **Host PC Labeling**



IBM.

Type 2658 型隙

Marca Registrada

16V === 4.5A

®Registered Trademark of International Business Machines Corporation

Manufactured for IBM Corporation Armonk, New York, USA Made in Philippines.

Tris Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations

This device complies with part 15 of the FCC Ruiss.

Operation is subject to the following two conditions:(1)This device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.

This product contains a Lithium Bettery and Cathode Fluoreacant Lamp which contains mercury. Please refer to User Manual or follow local ordinances or regulations for disposal of this product.

Cet appareil numerique de la class B respecte toutes les exigences du Regiernant eur le material brouilleur du Canada.

本権にはリチウム電地及び電光管が 組み込まれていますので、病薬時には マニュアルに従ってください。あるいは 地方自治体の条例/規則に従ってください。 40.42T12.000

FC

CM

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

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Apparatus Claims of U.S. Patent Nos. 4,831,803, 4,577,218, 4,819,098, 4,907,093 licensed for limited viewing uses only AUSTRALIA WARNING:
ONLY ECUIPMENT THAT HAS A
TELECOMMUNICATIONS
COMPLIANCE LABEL MAY BE
CONNECTED TO THE HEADSET PORT.

Info. Tech 7/35 ET PORT.

Listed Info. Tech. Equip. 7K25 E146483

**△**N79

CE MES/MMB-003

Factory ID: K

# **Antenna Information**

Document Number: FCC-19-0190-0

## 1. Antenna Specification

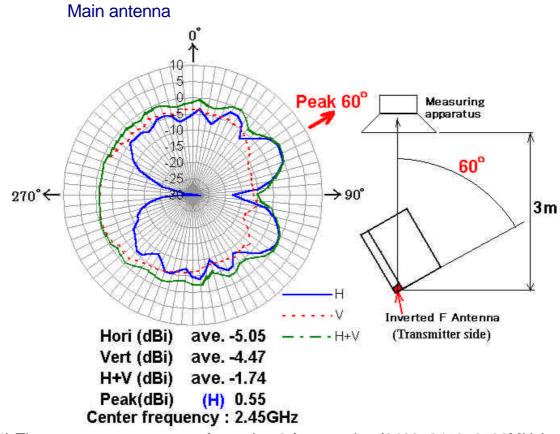
Transmission Antenna assembly overview

Designator	Manufacture	Antenna type	Cable type	Gain (dBi)
			and length	Note 1)
46L6323 Main antenna	Wistron NeWeb Corp. (Taiwan)	Inverted F type Antenna	coax 450mm	0.55 dBi (peak)
46L6324 Auxiliary antenna		Inverted F type Antenna	coax 185mm	- 0.94 dBi (peak)

#### Notes:

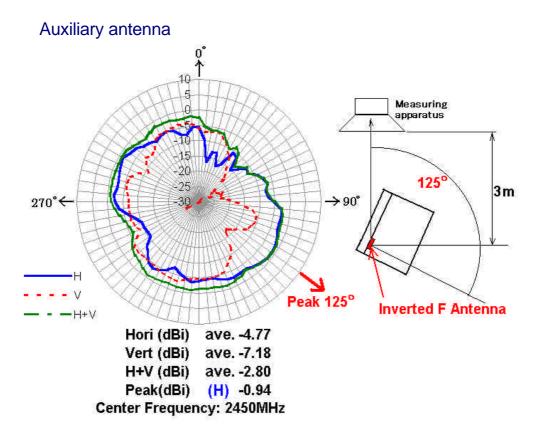
- 1a. Includes all cable losses.
- 1b. Antenna type should be Omni Directional and have gain of 3.0 dBi or less regarding the IBM internal specification.

### 2. Radiation characteristic of antennas



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

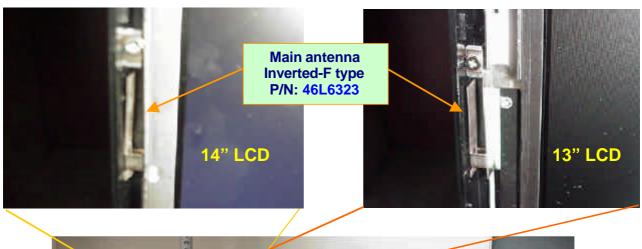
Note2) The maximum antenna gain was found around **60 degree** angle from measuring apparatus in **horizontal** polarization at the middle frequency (2.45GHz).



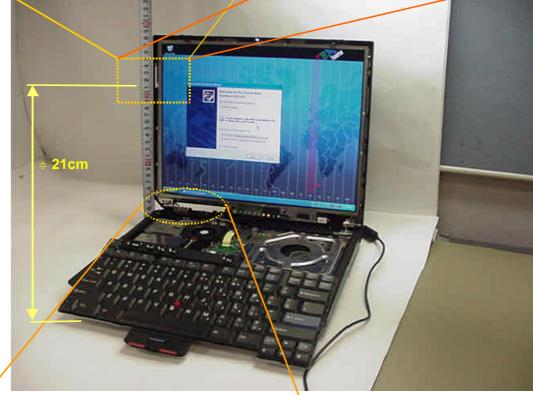
Note1) The measurement was performed at 3 frequencies (2400, 2450, 2500MHz).

Note2) The maximum antenna gain was found around **125 degree** angle from measuring apparatus in **horizontal** polarization at the middle frequency (2.45GHz).

## 3. Antenna locations



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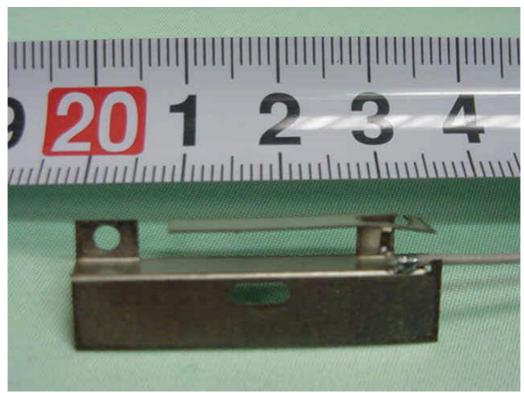


Auxiliary antenna Inverted-F type P/N: 46L6324

Prepared by T. Murota

# 4. Exterior Photos of Antennas

#### **Main Antenna**

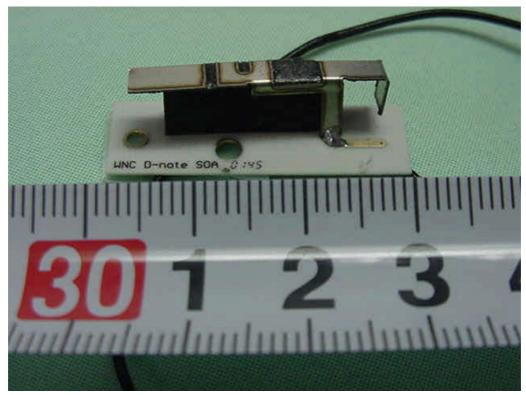


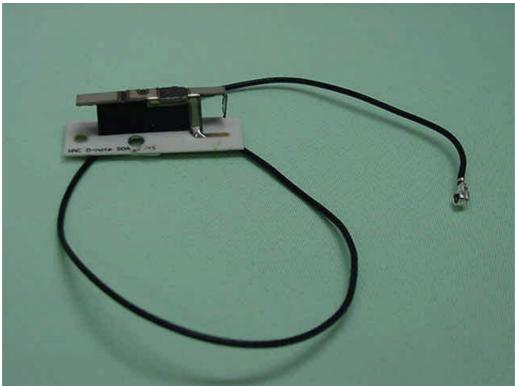


**Manufacturer: Wistron NeWeb Corp.** 

IBM parts number: 46L6323 Inverted-F type antenna Cable: coax 450 mm

# **Auxiliary Antenna**





Manufacturer: Wistron NeWeb Corp. IBM parts number: 46L6324 Inverted-F type antenna Cable: coax 185 mm