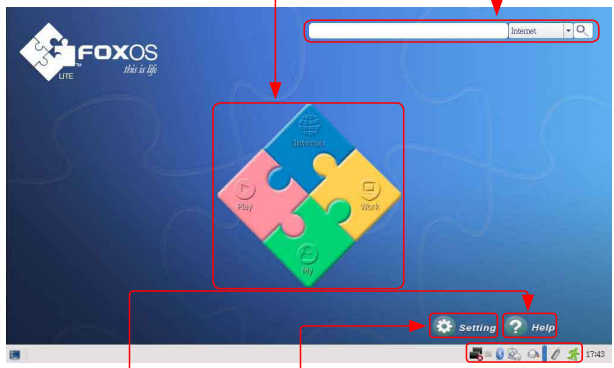
2-1 Overview

After turning on the Netbook, when you log in Netbook's pre-loaded FoxOS system, the following screen will appear:



CAUTION

The order of network、input method、bluetooth icon on the taskbar may be different accoring to system loading.

2-2 Using web camera

Double click "My Computer"->"USB video device", you can use the web camera. Click "Camera Tasks" ->"Take a new picture" on left window, you can take photoes.

2-3 Chinese Input Method

When you need to input Chinese to a document, e-mail or search engine, you must switch to the Chinese input method. By default the system always uses the English input method. To switch the Chinese input method, select the desired application then repeatedly press <Ctrl> + <Shift> together to switch through different input methods. The current input method will be shown on the bottom right of the screen. When the input method shown below appears, the corresponding input method is available for use.

2-4 Special Function Keys

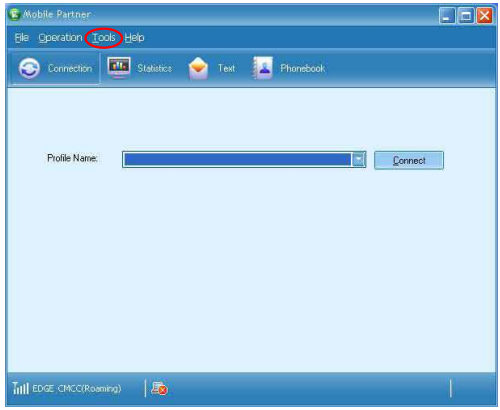
The following defines some special function keys on the netbook.

Function Keys	Description
Fn + F1	Audio on or off
Fn + F2	Toggles the wireless LAN on or off. When enabled, the corresponding wireless indicator will light
Fn + F3	Touchpad on or off
Fn + F4	Switches to the external display
Fn + F5	Plays or Pauses audio / video
Fn + F6	Stops audio / video
Fn + F7	Directly plays the previous video / audio
Fn + F8	Directly plays the next video / audio
Fn + F9	To terminate some applications
Fn + F10	Toggles the "Print Screen" key to initiate screen capture utility to capture, save or print the contents of desktop
Fn + F11	F12 / Enters into the dialog box of "Save As" in Windows Office applications
Fn + Page Up	Presses to move the cursor to the beginning of the line
Fn + Page Down	Presses to move the cursor to the end of the line
Fn + Ins	"Number Lock" on or off
Fn + Del	"Scroll Lock" on or off
Fn + Esc	In S3 mode
Fn + ↑ (up arrow)	Increases the display brightness
Fn + ↓ (down arrow)	Decreases the display brightness
Fn + ← (left arrow)	Decreases the system volume
Fn + → (right arrow)	Increases the system volume

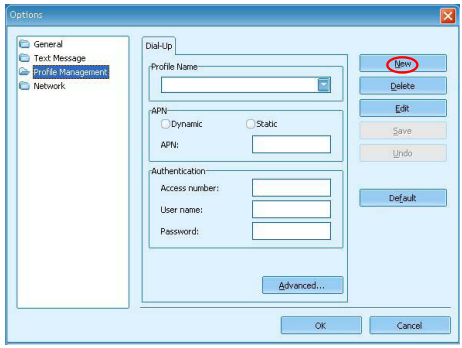
2-5 Using WWAN (optional)

Let me take EM770 module as an example to simply introduce how to connect WWAN in Windows XP, the steps are as below. Please refer to the file "utps_content_concept_00001.html" for details about the WWAN, its path is as below:
In system path -> Program Files -> Mobile Partner -> usermanual -> en-us -> usermanual ->utps_content_concept_00001.html

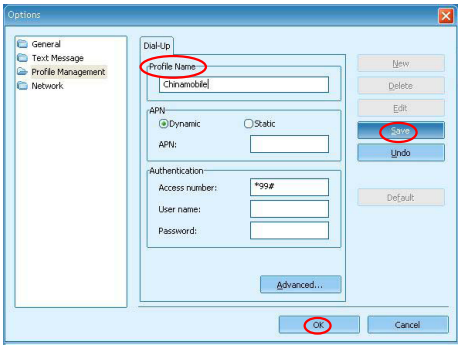
1. Double click "Mobile Partner" on desktop to open the figure as shown below:



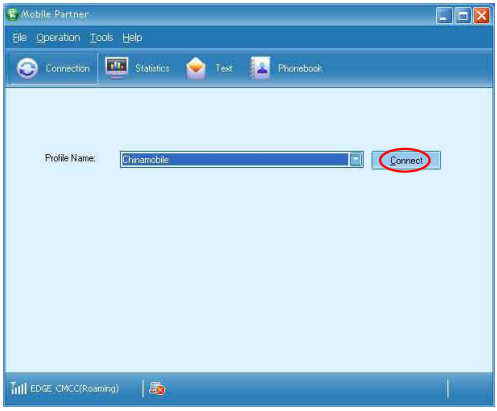
2. Click "Tools" - > "Options", and select "Profile Management" in popping window, the figure is shown as below:



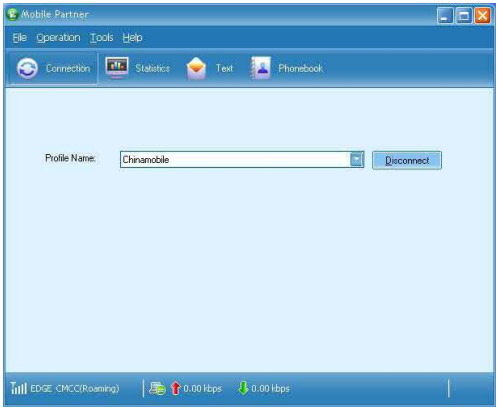
3. Click "New" and input the name in "Profile Name" column, like Chinamobile, then click "Save" and "Ok".



4. Click "Connect" to start the connection.



5. You can access the internet when the figure is shown as below.



Remark - How to install the SIM card

Please install the SIM card according to the following details:
Power off the Netbook and shut down power supply, then remove the battery (please refer to page 7 for details about removing the battery), and you will see the SIM card slot, as the picture shown. Please insert the SIM card into the slot (as the icon shown) and make sure that the gold pins of SIM card are downward.

SIM card slot

Please do not insert or pull out the SIM card when power-on, otherwise the data may lose or the card would be damaged.

2-6 Using Wireless LAN

You can use wireless LAN with the Netbook. This part mainly introduces wireless LAN and its connection.

I: Introduce wireless LAN

1. Wireless LAN:

Wireless networks use radio waves as information transmission medium to consist of wireless LAN (WLAN), the main difference lies in the wireless networks using wireless technology instead of string.

2. Wireless card and Access wireless network:

Wireless card is a wireless terminal device which uses the wireless connection with the coverage of the wireless LAN. You can access wireless network, if there is a wireless router or the coverage of wireless AP around (Please refer to the wireless router's manual about its connections and settings); Attach a device to the Netbook and enclose a card as mobile phone card inside when you go telecommunication business hall to handle wireless. After that you can surf the Net wirelessly.

II: Connecting wireless LAN

Press "Fn + F2" to turn on the wireless LAN of the Netbook, the system will automatically search the available wireless network around and connect it. Or click icon to manually choose the Internet connection.

If password is required, enter the password of wireless LAN to realize wireless connection.

2-7 MMC/SD/MS Dummy Card

There is a dummy card in our Netbook, the figure is as shown below. The main function of the card is to prevent dust into the computer. When you use the MMC/SD/MS card slot, press down the dummy card with your finger and take the popping card out.

WiFi&3G Portion Description

The EUT is a Notebook PC with 11 channels 802.11b/g wireless module, Bluetooth module and 3G WWAN module installed.

1) The modulation technology of 802.11bg device is DSSS and OFDM. Modulation type for 802.11b: CCK, DQPSK, DBSK. Modulation type for 802.11g: 64QAM, 16QAM, QPSK, BPSK. Transmitting speed are 1, 2, 5.5, 11Mbps for 802.11b, 6, 9, 12, 18, 24, 36, 48 and 54Mbps for 802.11g.

The device adapts direct sequence spread spectrum modulation for WLAN module. The antenna provides diversity function to improve the receiving function. This Notebook PC, compliant with IEEE 802.11b and IEEE 802.11g, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz is Direst Sequence Spread Spectrum (DSSS) radio transmission; the Notebook PC Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b, IEEE 802.11g network.

2) The 3G module EM770 is the second-generation PCI Express™ Mini Card that enables notebook computer wireless data connectivity. This data card solution delivers WWAN connectivity for the UMTS (HSDPA), and GSM/GPRS/EDGE protocols. The complete EM770 solution includes all hardware and software necessary for embedded wireless connectivity in notebook PCs.

EM770 operating modes and throughput rates1

Operating Mode	Data throughput rate	
	Forward Link	Reverse Link
WCDMA R99	**384 kbps**	**384 kbps**
WCDMA - HSDPA	**7.2 Mbps**	**---**
GSM	**14.4 kbps**	**14.4 kbps**
GPRS	**85.6 kbps**	**42.8 kbps**
EDGE	**236.8 kbps**	**118.4 kbps**

EM770 Hardware Specification

Items	**Specification**
Technical standard	**· WCDMA/HSDPA R5** **· GSM/GPRS/EDGE R99**
Operating frequency	**HSDPA/UMTS 2100 MHz:**

	. Uplink: 1920–1980 MHz . Downlink: 2110–2170 MHz HSDPA/UMTS 1900 MHz: . Uplink: 1850~1910 MHz . Downlink: 1930~1990 MHz HSDPA/UMTS 850 MHz: . Uplink: 824~849 MHz . Downlink: 869~894 MHz EDGE/GPRS/GSM 1900 MHz: . Uplink: 1850–1910 MHz . Downlink: 1930–1990 MHz EDGE/GPRS/GSM 1800 MHz: . Uplink: 1710–1785 MHz . Downlink: 1805–1880 MHz EDGE/GPRS/GSM 900 MHz: . Uplink: 880–915 MHz . Downlink: 925–960 MHz EDGE/GPRS/GSM 850 MHz: . Uplink: 824–849 MHz . Downlink: 869–894 MHz
External interfaces	Mini PCI Express interface: supporting PCI Express Mini Card Specification 1.2
	Antenna interface: Hirose U.FL-R-SMT
	HSUPA/HSDPA/UMTS 850/1900/2100 MHz：+24dBm（Power Class 3）
	GSM/GPRS 850/900 MHz: +33 dBm (Power Class 4)
	GSM/GPRS 1800 MHz/1900 MHz: +30 dBm (Power Class 1)
	EDGE 850/900MHz: +27 dBm (Power Class E2)
	EDGE 1800MHz/1900MHz: +26 dBm (Power Class E2)
Static receiver sensitivity	HSUPA/HSDPA/UMTS 850/1900/2100 MHz: compliant with 3GPP TS 25.101 (R5)
	EDGE/GPRS/GSM 850/900/1800/1900 MHz: compliant with 3GPP TS 05.05 (R99)
Maximum power consumption	. 2.5W
Power supply	3.3 V/1100 mA
Dimensions (D ×W × H)	51 mm□30 mm□5mm

Weight	**<40g**
Temperature	**. Operating: –10℃ to +65℃** **. Storage: –20℃ to +70℃**
Humidity	**5% to 95%**
Notes: **3GPP = The 3rd Generation Partnership Project** **EGPRS = enhanced GPRS** **MSC = mobile switching center** **TS = technical specification**	

The EM770 physical connections and signal levels will follow PCI Express Mini CEM specification. Device representation and operation follows USB v2.0 specifications.

This chapter introduces how to install Windows XP system for you, including following information:

- Install a new Windows XP system
- Install drivers in new Windows XP

Install Windows XP in Netbook

By default, the Netbook has been installed FoxOS system for you. But if you do not like the operation system interface, you can install Windows XP by yourself.

What kinds of hardware and software you need here :

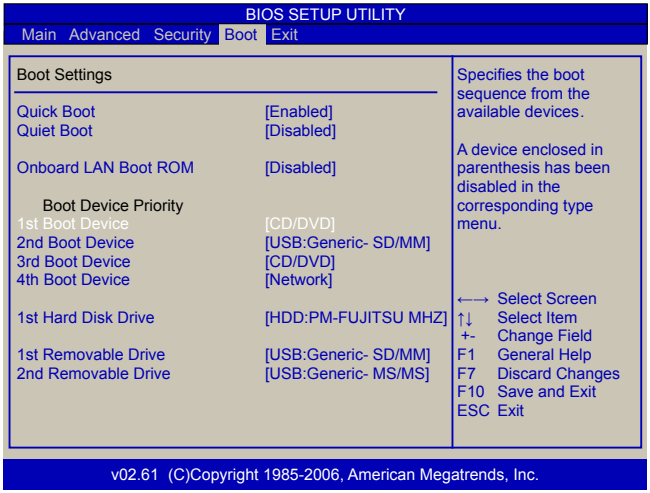
1. An USB DVD drive.
2. A Netbook driver CD.
3. Windows XP Install CD.

Before we continue :

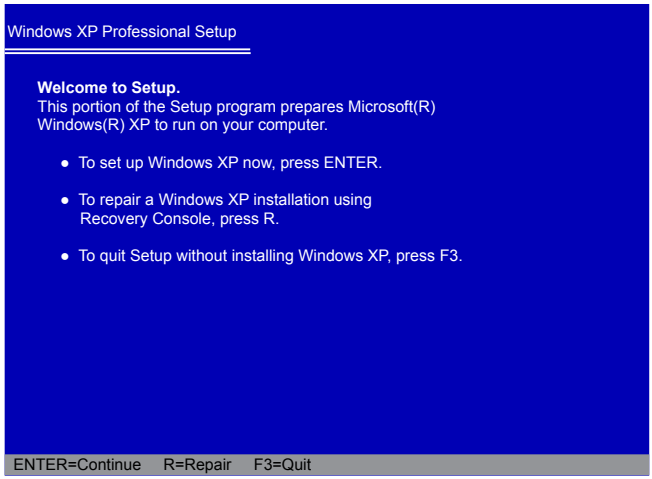
- Shut down your computer.
- Connect the USB DVD drive to an USB port of Netbook and connect the power cord to AC power.

3-1 Install a new Windows XP system

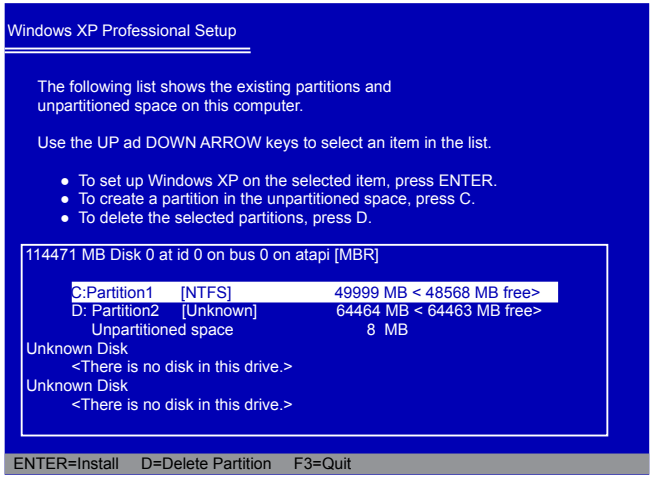
1. Press <Del> to enter BIOS setup during POST, set the "1st Boot Device" to "CD/DVD" in "Boot" menu, save changes and exit BIOS. The figure is as shown below:



2. Insert the Windows XP Install CD into the USB DVD drive. The computer will reboot, and it will start installing Windows XP Operating System. The figure is as shown below:



3. Press <Enter> to continue the installation and press <F8> to agree the Licensing Agreement. Windows will display the partition of your system. First of all, you had better press [D] to delete the partition, then you can press [C] to create partitions as many as you can, assign them C:、D: or E: logical drive name. In this example, we will create a 50GB partition C: and leave the remaining space as a partition D:. The figure is as shown below:



4. Press <Enter> to install Windows XP. The process will ask you to format hard disk、copy files...etc, follow the installation steps until the system is installed completely.

3-2 Install drivers in new Windows XP

1. After installing Windows XP, you have to install necessary drivers before using the Netbook. Insert the Netbook driver CD to the USB DVD drive, waiting for a few seconds, the main menu will be displayed on your Netbook screen.

2. Clicking these options to install all the drivers for your system. You must firstly click "Intel Chipset Driver" to install and then click "One Click Setup" to install the other drivers left, or you can click each individual driver to install it manually.
3. After all the drivers are installed, you need to restart your Netbook, then you can use it.

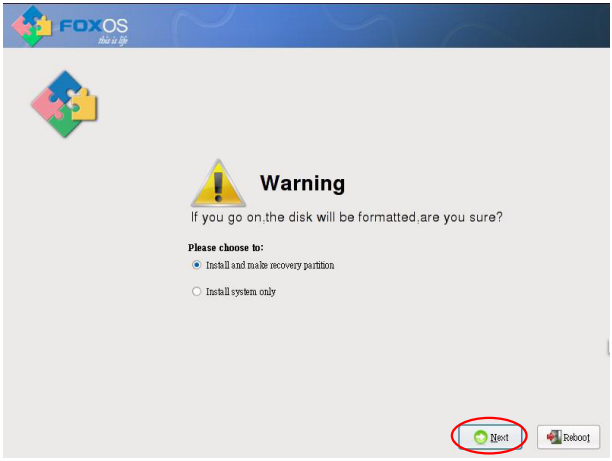
I From DVD to recover system

1 Boot from DVD

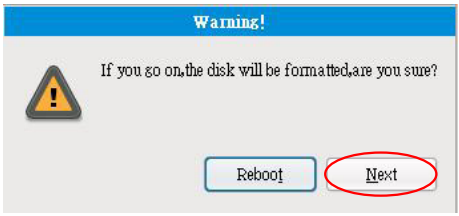
Power on the computer, insert the system Installation DVD into the DVD drive, press "ESC" to select booting system from the DVD drive.

2 Select the way of Installation

When the figure as below shows, select "**Install and make recovery partition**", the system will be installed and a recovery partition be made. Or select "**Install system only**", the system will be installed without recovery partition, so recover system from hard disk is impossible.

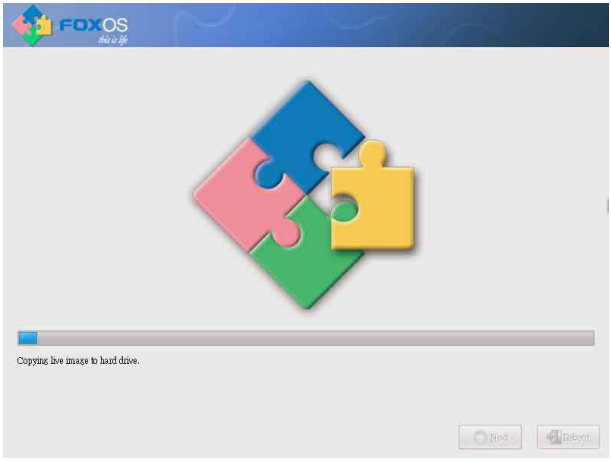


3 Click "Next", the warning box is shown as below:

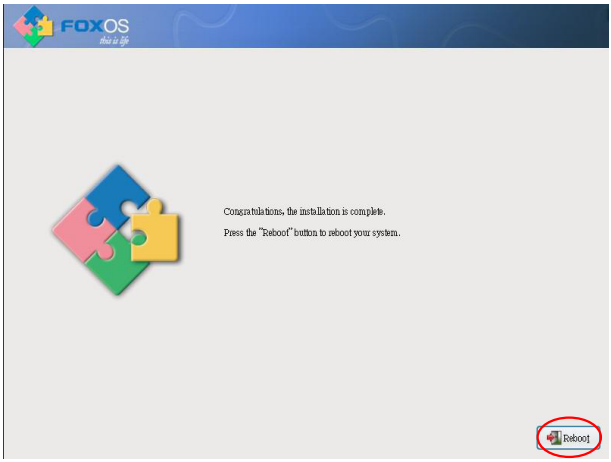


4 Installing system

Click "Next" to format hard disk and install system. The figure is shown as below:



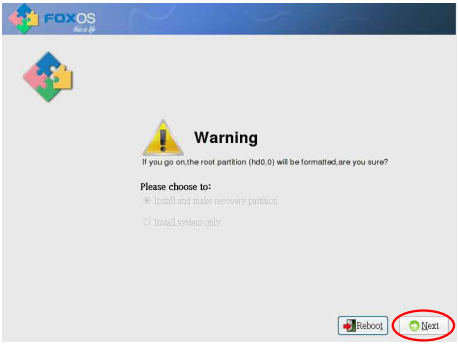
5 After installing, click "Reboot" to restart the system.



II From hard disk to recover system

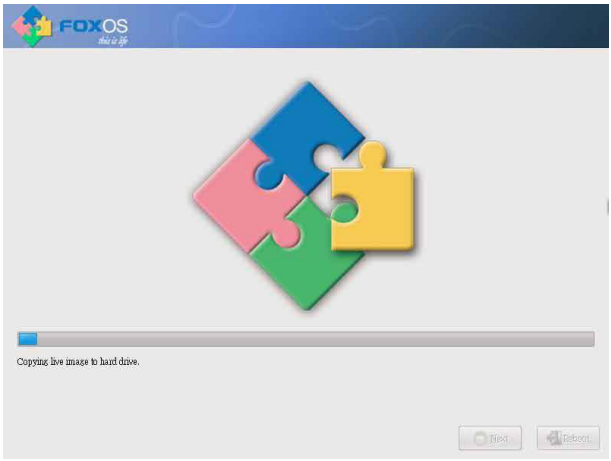
1 When you log in, according to the screen suggestion, press any key to enter Grub interface, the figure is as shown below:

2 Select "FoxOS recovery" item and then press "Enter", the warning box is shown below:

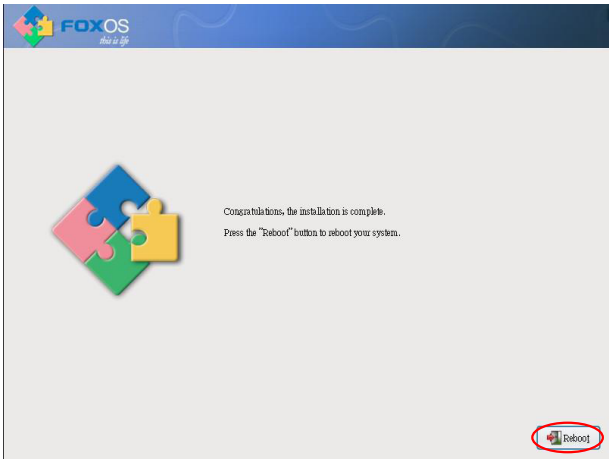


3 Select "Next", system warns the root partition(hd0, 0) will be formatted. The figure is as shown below:

4 Click "Next" to format partition(hd0,0) and recover system from hard disk. The figure is as shown below:



5 When the process is completed, please reboot the system.The figure is as shown below:



Federal Communications Commission Statement

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.
-

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The use of a shielded-type power cord is required in order to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Note:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. "The manufacture declares that this device is limited to Channels 1 through 11 in the 2.4GHz frequency by specified firmware controlled in the USA."

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter. The measured SAR levels evaluated are in compliance with the FCC RF exposure guidelines.

SZ900&SZ901 Max. SAR Measurement :
GSM 835MHz: 0.011 W/kg
PCS 1900MHz:0.021 W/kg

WCDMA Band V:0.0081 W/kg
WCDMA Band II: 0.011 W/kg
802.11b:0.019 W/kg