



Asus A7Db Hardware User Manual

Asus a7db: user guide

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Quick Links

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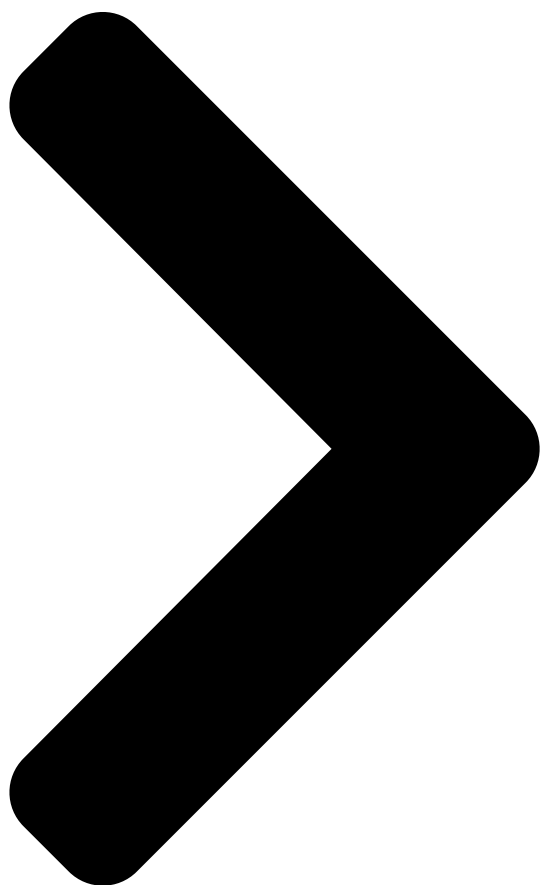
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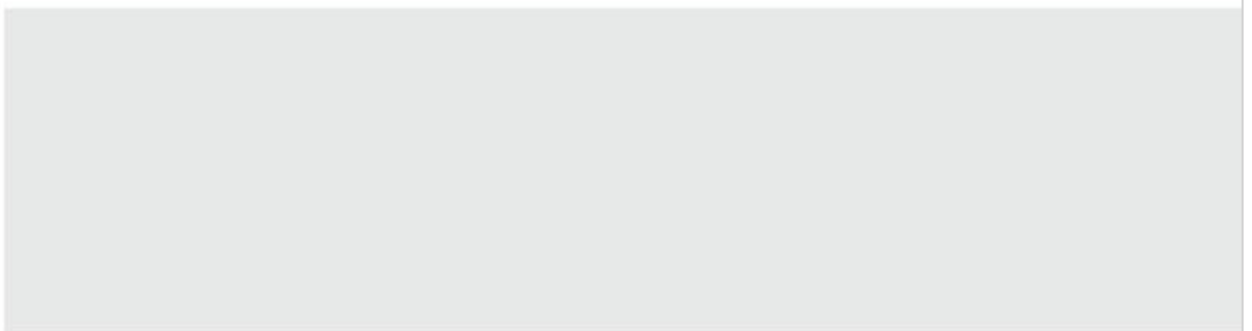
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Notebook PC

Hardware User's Manual

E2343 / Dec 2005



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Related Manuals for Asus A7Db

[Software Asus A3Ac User Manual](#)

(8 pages)

[Motherboard ASUS PC133 User Manual](#)

Jumperfree pc133/vc133 200mhz fsb agp pro/4x socket a motherboard (112 pages)

[Motherboard Asus A7V User Manual](#)

Jumperfree pc133/vc133 200mhz fsb agp pro/4x socket a motherboard (100 pages)

[Notebook Asus A7V Service Manual](#)

(24 pages)

[Laptop Asus A72F User Manual](#)

Notebook pc (32 pages)

[Laptop Asus X73SM Manual](#)

Notebook pc (116 pages)

[Laptop Asus A7S Hardware User Manual](#)

Notebook pc (89 pages)

[Laptop Asus A7T Series Service Manual](#)

(25 pages)

[Laptop Asus A53TK Manual](#)

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[Laptop Asus A550DP E-Manual](#)

User's manual for english edition (110 pages)

[Laptop Asus A40JK User Manual](#)

User manual (30 pages)

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[Laptop Asus VivoBook 15 E-Manual](#)

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Summary of Contents for Asus A7Db

[Page 1](#) Notebook PC Hardware User's Manual E2343 / Dec 2005...

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[Page 5: Introducing The Notebook Pc](#)

1. Introducing the Notebook PC About This User's Manual Notes For This Manual Safety Precautions Preparing your Notebook PC...

[Page 6: About This User's Manual](#)

Introducing the Notebook PC About This User's Manual You are reading the Notebook PC User's Manual. This User's Manual provides information on the various components in the Notebook PC and how to use them. The following are major sections of this User's Manuals: 1.

[Page 7: Safety Precautions](#)

Safety Precautions The following safety precautions will increase the life of the Notebook PC. Follow all precautions and instructions. Except as described in this manual, refer all servicing to qualified personnel. Do not use damaged power cords, accessories, or other peripherals. Do not use strong solvents such as thinners, benzene, or other chemicals on or near the surface.

[Page 8: Transportation Precautions](#)

Introducing the Notebook PC Transportation Precautions To prepare the Notebook PC for transport, you should turn it OFF and disconnect all external peripherals to prevent damage to the connectors. The hard disk drive's head retracts when the power is turned OFF to prevent scratching of the hard disk surface during transport. Therefore, you should not transport the Notebook PC while the power is still ON.

[Page 9: Preparing Your Notebook Pc](#)

Preparing your Notebook PC These are only quick instructions for using your Notebook PC. Read the later pages for detailed information on using your Notebook PC. 1. Install the battery pack 3. Open the Display Panel PREY. WARNING! When opening, do not force the display panel down to the table or else the hinges may break! Never lift the Notebook PC by the display panel!

[Page 10](#) Introducing the Notebook PC...

[Page 11: Knowing The Parts](#)

2. Knowing the Parts Basic sides of the Notebook PC...

[Page 12: Top Side](#)

Knowing the Parts Top Side Refer to the diagram below to identify the components on this side of the Notebook PC. Camera (on selected models) The built-in camera allows picture taking or video recording. Can be used with voice conferencing and other interactive applications.

[Page 13: Knowing The Parts](#)

Display Panel The display panel functions the same as a desktop monitor. The Notebook PC uses an active matrix TFT LCD, which provides excellent viewing like that of desktop monitors. Unlike desktop monitors, the LCD panel does not produce any radiation or flickering, so it is easier on the eyes.

[Page 14: Bottom Side](#)

Knowing the Parts Bottom Side Refer to the diagram below to identify the components on this side of the Notebook PC. Some labels identify components inside removable panels. IMPORTANT! The bottom of the Notebook PC can get very hot. Be careful when handling the Notebook PC while it is in operation or recently been in operation.

[Page 15: Battery Pack](#)

WLAN Expansion Compartment The WLAN expansion compartment contains a slot to

accommodate a wireless networking card in order to wirelessly connect to network access points or other wireless networking devices. TV-Tuner Card Compartment This Notebook PC features a TV-Tuner card for viewing television programs on this Notebook PC. Hard Disk Drive Compartment The hard disk drive is secured in a compartment.

[Page 16: Left Side](#)

Knowing the Parts Left Side Refer to the diagram below to identify the components on this side of the Notebook PC. LAN Port The RJ-45 LAN port with eight pins is larger than the RJ-11 modem port and supports a standard Ethernet cable for connection to a local network. The built-in connector allows convenient use without additional adapters.

[Page 17: Audio Input Jack](#)

Audio Input Jack The stereo input jack (1/8 inch) can be used to connect a stereo audio source to the Notebook PC. This feature is used mainly to add audio to multimedia applications. Microphone Input Jack The mono microphone jack (1/8 inch) can be used to connect an external microphone or output signals from audio devices.

[Page 18: Right Side](#)

Knowing the Parts Right Side Refer to the diagram below to identify the components on this side of the Notebook PC. Stereo Speakers The built-in stereo speaker system allows you to hear audio without additional attachments. The multi-media sound system features an integrated digital audio controller that produces rich, vibrant sound (results improved with external stereo headphones or speakers).

[Page 19: Rear Side](#)

Rear Side Refer to the diagram below to identify the components on this side of the Notebook PC. Kensington Lock Port The Kensington lock port allows the Notebook PC to be secured using Kensington compatible Notebook PC security products. These security products usually include a metal cable and lock that prevent the Notebook PC to be removed from a fixed object.

[Page 20: Front Side](#)

Knowing the Parts Front Side Refer to the diagram below to identify the components on the front side of the Notebook PC. Display Panel Button Press the display panel button to open the display panel. WARNING! When opening, do not force the display panel down to the table or else the hinges may break! Never lift the Notebook PC by the display panel! CD Player Control Buttons There are several CD control buttons integrated externally on the Notebook PC for...

[Page 21: Getting Started](#)

3. Getting Started Using AC Power Using Battery Power Powering ON the Notebook PC Checking Battery Power Restarting or Rebooting Powering OFF the Notebook PC Special Keyboard Functions Instant Keys and Status Indicators...

[Page 22: Power System](#)

Getting Started Power System Using AC Power The Notebook PC power is comprised of two parts, the power adapter and the battery power system. The power adapter converts AC power from a wall outlet to the DC power required by the Notebook PC.

[Page 23: Using Battery Power](#)

Using Battery Power The Notebook PC is designed to work with a removable battery pack. The battery pack consists of a set of battery cells housed together. A fully charged pack will provide several hours of battery life, which can be further extended by using power management features through the BIOS setup. Additional battery packs are optional and can be purchased separately through a Notebook PC retailer.

[Page 24: Powering On The Notebook PC](#)

Getting Started Powering ON the Notebook PC The Notebook PC's power-ON message appears on the screen when you turn it ON. If necessary, you may adjust the brightness by using the hot keys. If you need to run the BIOS Setup to set or modify the system configuration, press [F2] upon startup to enter the BIOS Setup.

[Page 25: Checking Battery Power](#)

Checking Battery Power The battery system implements the Smart Battery standard under the Windows environment, which allows the battery to accurately report the amount of charge left in the battery. A fully-charged battery pack provides the Notebook PC a few hours of working power. But the actual figure varies depending on how you use the power saving features, your general work habits, the CPU, system memory size, and the size of the display panel.

[Page 26: Restarting Or Rebooting](#)

Getting Started Restarting or Rebooting After making changes to your operating system, you may be prompted to restart the system. Some installation processes will provide a dialog box to allow restart. To restart the system manually, click Windows Start button and select Shut Down and then choose Restart.

[Page 27: Microsoft Windows Keys](#)

Microsoft Windows Keys There are two special Windows keys on the keyboard as described below. The key with the Windows Logo activates the Start menu located at the bottom left of the Windows desktop. The other key, that looks like a Windows menu with a small cursor, activates the properties menu and is equivalent to pressing the right mouse button on a Windows object.

[Page 28: Colored Hot Keys](#)

Getting Started Special Keyboard Functions Colored Hot Keys The following defines the colored hot keys on the Notebook PC's keyboard. The colored commands can only be accessed by first pressing and holding the function key while pressing a key with a colored command. NOTE: The Hot Key locations on the function keys may vary depending on model but the functions should remain the same.

[Page 29: Instant Keys And Status Indicators](#)

Instant Keys and Status Indicators PREV NEXT STOP PLAY/PAUSE Instant Keys Power4 Gear Key The Power4 Gear button toggles power savings between various power saving modes. The power saving modes control many aspects of the Notebook PC to maximize performance versus battery time during various events.

[Page 30: Status Indicators \(Above Keyboard\)](#)

Getting Started PREV NEXT STOP PLAY/PAUSE Status Indicators (above keyboard) Bluetooth Indicator (on selected models) The Bluetooth indicator will light to show that the Notebook PC's built-in Bluetooth function is activated. This indicator requires a built-in Bluetooth module which is installed only on selected models. Drive Activity Indicator Indicates that the Notebook PC is accessing one or more storage device(s) such as the hard disk.

[Page 31: Status Indicators \(Front\)](#)

PREV NEXT STOP PLAY/PAUSE Status Indicators (front) Power Indicator The green LED lights to indicate that the Notebook PC is turned ON and blink when the Notebook PC is in the Suspend-to-RAM (Standby) mode. This LED is OFF when the Notebook PC is OFF or in the Suspend-to-Disk (Hibernation) mode.

[Page 32: Cd Player Control Buttons And Indicator \(On Selected Models\)](#)

Getting Started CD Player Control Buttons and Indicator (on selected models) There are several CD control buttons integrated externally on the Notebook PC for convenient CD playing. The buttons activate and control your operating system's audio player when the Notebook PC is ON.

[Page 33: Using The Notebook Pc](#)

4. Using the Notebook PC Operating System Pointing Device Storage Devices PC card or ExpressCard (depending on model) Optical Drive Hard Disk Drive Connections Modem Connection Network Connection IR Wireless Communication Bluetooth Wireless Connection Wireless LAN Connection Power Management Modes Multimedia Connections Audio/Video Remote Controller...

[Page 34: Operating System](#)

Using the Notebook PC Operating System This Notebook PC may offer (depending on territory) its customers the choice of a pre-installed operating system such as Microsoft Windows XP. The

choices and languages will depend on the territory. The levels of hardware and software support may vary depending on the installed operating system. The stability and compatibility of other operating systems cannot be guaranteed.

[Page 35: Pointing Device](#)

Pointing Device The Notebook PC's integrated touchpad pointing device is fully compatible with all two/three-button and scrolling knob PS/2 mice. The touchpad is pressure sensitive and contains no moving parts; therefore, mechanical failures can be avoided. A device driver is still required for working with some application software.

[Page 36: Touchpad Usage Illustrations](#)

Using the Notebook PC Touchpad Usage Illustrations Clicking/Tapping - With the cursor over an item, press the left button or use your fingertip to touch the touchpad lightly, keeping your finger on the touchpad until the item is selected. The selected item will change color.

[Page 37: Caring For The Touchpad](#)

Dragging - Dragging means to pick up an item and place it anywhere on the screen you wish. You can move the cursor over the item you select, and while keeping the left button depressed, moving the cursor to the desired location, then release the button. Or, you can simply double-tap on the item and hold while dragging the item with your fingertip.

[Page 38: Storage Devices](#)

Using the Notebook PC Storage Devices Storage devices allow the Notebook PC to read or write documents, pictures, and other files to various data storage devices. This Notebook PC has the following storage devices: • PC card or ExpressCard (depending on model) •...

[Page 39: Removing A Pc Card](#)

Inserting a PC Card or ExpressCard Be sure the PC card is level when inserting. 1. If there is a PC Card socket protector, remove it using the "Removing a PC Card" instructions below. 2. Insert the PC card with the connector side first and label side up.

[Page 40: Optical Drive](#)

Using the Notebook PC Optical Drive Inserting an optical disc 1. While the Notebook PC's power is ON, press the drive's eject button and the tray will eject out partially. 3. Hold the disc by the edge and face the disc's printed side up.

[Page 41: Removing An Optical Disc](#)

Optical Drive (Cont') Removing an optical disc Eject the tray and gently pry the edge of the disc upwards at an angle to remove the disc from the hub. Using the Optical Drive Optical discs and equipment must be handled with care because of the precise mechanics involved. Keep in mind the important safety instructions from your CD suppliers.

[Page 42: Flash Memory Card Reader](#)

Using the Notebook PC Flash Memory Card Reader Normally a PCMCIA memory card reader must be purchased separately in order to use memory cards from devices such as digital cameras, MP3 players, mobile phones, and PDAs. This Notebook PC has a single built-in memory card reader that can read flash memory cards as shown below.

[Page 43: Connections](#)

Connections NOTE: The built-in modem and network cannot be installed later as an upgrade. After purchase, modem and/or network can be installed as a PC card (PCMCIA). **Modem Connection** The telephone wire used to connect the Notebook PC's internal modem should have either two or four wires (only two wires (telephone line #1) is used by the modem) and should have an RJ-11 connector on both ends.

[Page 44: Network Connection](#)

Using the Notebook PC Network Connection Connect a network cable, with RJ-45 connectors on each end, to the modem/network port on the Notebook PC and the other end to a hub or switch. For 100 BASE-TX / 1000 BASE-T speeds, your network cable must be category 5 or better (not category 3) with twisted-pair wiring.

[Page 45: Ir Wireless Communication \(On Selected Models\)](#)

IR Wireless Communication (on selected models) The Notebook PC is equipped with a conveniently located Infrared (IR) Communication Port (see 2. Knowing the Parts for location). The IR port comes with IrDA (Infrared Data Association) Serial Infrared Data Link Version 1.1 compliance, that allows you to perform point-to-point wireless communications.

[Page 46: Bluetooth Wireless Connection \(On Selected Models\)](#)

Using the Notebook PC Bluetooth Wireless Connection (on selected models) Notebook PCs with Bluetooth technology eliminates the need for cables for connecting Bluetooth-enabled devices. Examples of Bluetooth-enabled devices may be Notebook PCs, Desktop PCs, mobile phones, and PDAs. Note: If your Notebook PC did not come with built-in Bluetooth, you need to connect a USB or PC Card Bluetooth module in order to use Bluetooth.

[Page 47: Wireless Lan Connection \(On Selected Models\)](#)

Wireless LAN Connection (on selected models) The optional built-in wireless LAN is a compact easy-to-use wireless Ethernet adapter. Implementing the IEEE 802.11 standard for wireless LAN (WLAN), the optional built-in wireless LAN is capable of fast data transmission rates using Direct Sequence Spread Spectrum (DSSS) and Orthogonal Frequency Division Multiplexing (OFDM) technologies on 2.4 GHz frequencies.

[Page 48: Power Management Modes](#)

Using the Notebook PC Power Management Modes The Notebook PC has a number of automatic or adjustable power saving features that you can use to maximize battery life and lower Total Cost of Ownership (TCO). You can control some of these features through the Power menu in the BIOS Setup.

[Page 49: Power State Summary](#)

Power State Summary STATE ENTRY EVENT "Stand by" • "Stand by" through Windows Start button, • Timer as set through "Power Management" in Windows Control Panel (higher priority) STR ("Stand by") • Hotkey [Fn][F1] (Suspend-to-RAM) STD ("Hibernate") • Hotkey [Fn][F1] (Suspend-to-Disk) Soft OFF •...

[Page 50: Stand By And Hibernate](#)

Using the Notebook PC Stand by and Hibernate Power management settings can be found in the Windows control panel. The following shows the power options properties in Windows. You can define "Stand By" or "Shut down" for closing the display panel, pressing the power button, or activating sleep mode. "Stand by" and "Hibernate" saves power when your Notebook PC is not in use by turning OFF certain components.

[Page 51: Multimedia Connections \(On Selected Models\)](#)

Multimedia Connections (on selected models) This page shows multimedia connections for TV Tuner and/or FM Radio Models. TV and radio features require built-in modules only on selected models. Audio/Video Connections Connect the AV/S-Video adapter as shown to use standard RCA inputs or S-Video input to watch and/or record video inputs from VCD/DVD, video tape players, or video camcorders/digicams.

[Page 52: Audio/Video Remote Controller \(Model 1 On Selected Models\)](#)

Using the Notebook PC Audio/Video Remote Controller (Model 1 on selected models) A wireless remote controller is included with TV tuner models to control the Notebook PC's multimedia functions (the included software must be installed). Opens/Closes Mobile Theater SW in Windows Opens/Closes Instant Fun SW when NB is OFF Opens TV viewing application Opens picture viewer application...

[Page 53: Audio/Video Remote Controller \(Model 2 On Selected Models\)](#)

Audio/Video Remote Controller (Model 2 on selected models) A wireless remote controller is included with TV tuner models to control the Notebook PC's multimedia functions (the included software must be installed). Opens/Closes Mobile Theater SW in Windows Opens/Closes Instant Fun SW when NB is OFF Opens TV viewing application Opens picture viewer application Opens video viewer application...

[Page 54: Card-Sized Remote Controller \(On Selected Models\)](#)

Using the Notebook PC Card-Sized Remote Controller (on selected models) A wireless remote controller is included to control the Notebook PC's multimedia functions (the included software must be installed). Opens/Closes Mobile Theater application Changes to full screen or windowed display Arrow keys: Changes selected button Executes selection...

[Page 55: Appendix](#)

Appendix Optional Accessories Optional Connections Glossary Declarations and Safety Statements Notebook PC Information...

[Page 56: Optional Accessories](#)

Appendix Optional Accessories These items, if desired, come as optional items to complement your Notebook PC. USB Hub (Optional) Attaching an optional USB hub will increase your USB ports and allow you to quickly connect or disconnect many USB peripherals through a single cable. USB 2.0 Slim Combo Drive (Optional) The slim combo drive features FlextraLink™ ...

[Page 57: Wireless Lan Pc Card](#)

Optional Accessories (Cont.) These items, if desired, come as optional items to complement your Notebook PC. Wireless LAN PC Card A wireless LAN PC card (PCMCIA Type II) can be used in the Notebook PC to join a wireless network using the IEEE 802.11 wireless standard. Wireless LAN USB Adapter A wireless LAN USB adapter is thumb-sized and can be used in the Notebook PC to join a wireless network using the IEEE 802.11 wireless stan-...

[Page 58: Printer Connection](#)

Appendix Optional Connections (Cont.) These items, if desired, may be purchased from third-parties. Printer Connection One or more USB printers can be simultaneously used on any USB port or USB hub.

[Page 59: Glossary](#)

Glossary ACPI (Advanced Configuration and Power Management Interface) Modern standard for reducing power usage in computers. APM (Advanced Power Management) Modern standard for reducing power usage in computers. AWG (American Wire Gauge) NOTE: This table is for general reference only and should not be used as a source of the American Wire Gauge standard as this table may not be current or complete.

[Page 60](#) Appendix Byte (Binary Term) One byte is a group of eight contiguous bits. A byte is used to represent a single alphanumeric character, punctuation mark, or other symbol. Clock Throttling Chipset function which allows the processor's clock to be stopped and started at a known duty cycle. Clock throttling is used for power savings, thermal management, and reducing processing speed.

[Page 61](#) ® Kensington Locks ® Kensington locks (or compatible) allow the Notebook PC to be secured usually using a metal cable and lock that prevent the Notebook PC to be removed from a fixed object. Some security products may also include a motion detector to sound an alarm when moved. Laser Classifications As lasers became more numerous and more widely used, the need to warn users of laser hazards became apparent.

[Page 62](#) Appendix POST (Power On Self Test) When you turn on the computer, it will first run through the POST, a series of software-controlled diagnostic tests. The POST checks system memory, the motherboard circuitry, the display, the keyboard, the diskette drive, and other I/O devices. RAM (Random Access Memory) There are several different types of RAM such as DDR (Double Dynamic RAM), DRAM (Dynamic RAM), EDO DRAM (Extended Data Output DRAM), SDRAM (Synchronous DRAM).

[Page 63: Declarations And Safety Statements](#)

Declarations and Safety Statements DVD-ROM Drive Information The Notebook PC comes with an optional DVD-ROM drive or a CD-ROM drive. In order to view DVD titles, you must install your own DVD viewer software. Optional DVD viewer software may be purchased with this Notebook PC.

[Page 64: Internal Modem Compliancy](#)

Appendix Internal Modem Compliancy The Notebook PC with internal modem model complies with JATE (Japan), FCC (US, Canada, Korea, Taiwan), and CTR21. The internal modem has been approved in accordance with Council Decision 98/ 482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

[Page 65](#) Internal Modem Compliancy (Cont.) This table shows the countries currently under the CTR21 standard. Country Applied Austria Belgium Czech Republic Denmark Finland France Germany Greece Hungary Iceland Ireland Italy Still Pending Israel Lichtenstein Luxemburg The Netherlands Norway Poland Portugal Spain Sweden Switzerland United Kingdom...

[Page 66: Federal Communications Commission Statement](#)

Appendix 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.

[Page 67: Fcc Radio Frequency Interference Requirements](#)

FCC Radio Frequency Interference Requirements MPE Statement: Your device contains a low power transmitter. When device is transmitted it sends out Radio Frequency (RF) signal. This device is restricted to INDOOR USE due to its operation in the 5.15 to 5.25GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25GHz to reduce the potential for harmful interference to co-channel of the Mobile Satellite Systems.

[Page 68: Wireless Operation Channel For Different Domains](#)

Appendix Wireless Operation Channel for Different Domains N. America 2.412-2.462 GHz Japan 2.412-2.484 GHz Europe ETSI 2.412-2.472 GHz France Restricted Wireless Frequency Bands Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are: •...

[Page 69: UI Safety Notices](#)

UL Safety Notices Required for UL 1459 covering telecommunications (telephone) equipment intended to be electrically connected to a telecommunication network that has an operating voltage to ground that does not exceed 200V peak, 300V peak-to-peak, and 105V rms, and installed or used in accordance with the National Electrical Code (NFPA 70).

[Page 70](#) Appendix Nordic Cautions (for Notebook PC with Lithium-Ion Battery) CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. (English) ATTENZIONE! Rischio di esplosione della batteria se sostituita in modo errato.

[Page 71: Optical Drive Safety Information](#)

Optical Drive Safety Information Laser Safety Information Internal or external optical drives sold with this Notebook PC contains a CLASS 1 LASER PRODUCT. Laser classifications can be found in the glossary at the end of this user's manual. WARNING: Making adjustments or performing procedures other than those specified in the user's manual may result in hazardous laser exposure.

[Page 72](#) Appendix CTR 21 Approval (for Notebook PC with built-in Modem) Danish Dutch English Finnish French German Greek Italian Portuguese Spanish Swedish...

[Page 73](#) Appendix...

[Page 74: Notebook Pc Information](#)

Appendix Notebook PC Information This page is provided for recording information concerning your Notebook PC for future reference or for technical support. Keep this User's Manual in a

secured location if passwords are filled out. Owner's Name: _____
Owner's Telephone: _____ Manufacturer: _____ Model: _____ Serial
Number: _____ Display Size: _____ Resolution: _____ Memory Size:
_____ Retailer: _____ Location: _____ Purchase Date: _____...

[Page 75: Copyright Information](#)

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