



Asus R2H-BH059T-2 Hardware User Manual

Ultramobilepc (umpc)

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UltraMobilePC (UMPC)

Hardware User's Manual

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E2951 / Nov 2006

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Ultramobilepc (umpc) (60 pages)

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[Page 5: Introducing The Ultramobilepc](#)

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

Page 6: About This User's Manual

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

UltraMobilePC Introduces you to the UltraMobilePC and this User's Manual.

[Page 7: Safety Precautions](#)

UltraMobilePC Safety Precautions The following safety precautions will increase the life of the UltraMobilePC. Follow all pre- cautions 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](#)

UltraMobilePC Transportation Precautions To prepare the UltraMobilePC 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 UltraMobilePC while the power is still ON. Cover Your UltraMobilePC You can purchase an optional carrying case to protect it from dirt, water, shock, and scratches.

[Page 9: Preparing Your Ultramobilepc](#)

UltraMobilePC Preparing your UltraMobilePC These are only quick instructions for using your UltraMobilePC. Read the later pages for detailed information on using your UltraMobilePC. 1. Install the battery pack 2. Connect the AC Power Adapter 3. Remove the Tablet Pen 4.

[Page 10](#) UltraMobilePC...

[Page 11: Knowing The Parts](#)

UltraMobilePC 2. Knowing the Parts Basic sides of the UltraMobilePC...

[Page 12: Front Side](#)

UltraMobilePC Front Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. Display Panel The display panel functions the same as a desktop monitor. The UltraMobilePC uses an active matrix TFT LCD, which provides excellent viewing like that of desktop monitors.

[Page 13](#) UltraMobilePC Page Up & Page Down The Page Up and Page Down buttons act the same way as those on a keyboard. UltraMobilePC Settings Button The UltraMobilePC settings button bring up an easy menu to customize the UltraMobilePC to your desire. Status Indicators Status indicators represent various conditions.

[Page 14: Right Side](#)

UltraMobilePC Right Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. LAN Port (disabled when using PortBar) 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.

[Page 15](#) UltraMobilePC USB Port (2.0/1.1) The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbps/ sec (USB 1.1) and 480Mbps/sec (USB 2.0). USB allows many devices to run simultaneously on a single computer, with some peripherals acting as additional plug-in sites or hubs.

[Page 16: Top Side](#)

UltraMobilePC Top Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. AV-OUT AV-OUT HOLD Audio/Video output port for connection to analog audio/video WIRELESS LOGIN devices such as televisions or video recorders. POWER USB Port (2.0/1.1) The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, cameras, hard disk drives, printers, and scanners connected in a series up to 12Mbps/...

[Page 17](#) UltraMobilePC AV-OUT HOLD Wireless Switch WIRELESS LOGIN POWER Enables or disables the built-in wireless LAN and Bluetooth (selected models). When enabled, the wireless status indicator will light. Windows software settings are necessary before use. AV-OUT HOLD WIRELESS LOGIN Button LOGIN POWER The LOGIN button sends a [Ctrl][Alt][Del] keyboard

combination to the operating system to show Windows Security for logging in/off, locking,...

[Page 18: Left Side](#)

UltraMobilePC Left Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. Mini-USB Port (Type A) LOCK UNLOCK PrtSc SysRq Pause The mini-USB (Universal Serial Bus) port is for connection to the Break PgUp Home PgDn optional external USB keyboard.

[Page 19: Bottom Side](#)

UltraMobilePC Bottom Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. Battery Lock - Spring The spring battery lock is used to keep the battery pack secured. When the battery pack is inserted, it will automatically lock. To remove the battery pack, this spring lock must be held in the unlocked position.

[Page 20: Back Side](#)

UltraMobilePC Back Side Refer to the diagram below to identify the components on this side of the UltraMobilePC. Battery Pack The battery pack is automatically charged when the UltraMobilePC is connected to an AC power source and maintains power to the UltraMobilePC when AC power is not connected.

[Page 21: Getting Started](#)

UltraMobilePC 3. Getting Started Using AC Power Using Battery Power Powering ON the UltraMobilePC Checking Battery Power Restarting or Rebooting Powering OFF the UltraMobilePC Status Indicators...

[Page 22: Power System](#)

UltraMobilePC Power System Using AC Power The UltraMobilePC 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 UltraMobilePC. Your Ultra- MobilePC comes with a universal AC-DC adapter.

[Page 23: Using Battery Power](#)

UltraMobilePC Using Battery Power The UltraMobilePC 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 retailer.

[Page 24: Powering On The Ultramobilepc](#)

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

[Page 25: Checking Battery Power](#)

UltraMobilePC 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 UltraMobilePC 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](#)

UltraMobilePC 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 (Screens are different depending on security settings) the system manually, click Windows Start button and select Shut Down and then choose Restart.

[Page 27: Status Indicators](#)

UltraMobilePC Status Indicators Power Indicator The power indicator lights when the UltraMobilePC is turned ON and blinks slowly when the UltraMobilePC is in the Suspend-to-RAM

(Standby) mode. This indicator is OFF when the UltraMobilePC is turned OFF or in the Suspend-to-Disk (Hibernation) mode.

[Page 28 UltraMobilePC...](#)

[Page 29: Using The Ultramobilepc](#)

UltraMobilePC 4. Using the UltraMobilePC Operating System Connections Network Connection Wireless LAN Connection Bluetooth Wireless Connection Power Management Modes Fingerprint Scanner GPS Software...

[Page 30: Operating System](#)

UltraMobilePC Operating System This UltraMobilePC 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.

[Page 31: Fast-Ethernet Connection](#)

UltraMobilePC Fast-Ethernet Connection Connect a network cable, with RJ-45 connectors on each end, to the modem/network port on the UltraMobilePC and the other end to a hub or switch. For 100 BASE-TX speeds, your network cable must be category 5 or better (not category 3) with twisted-pair wiring. If you plan on running the interface at 100Mbps, it must be connected to a 100 BASE-TX hub (not a BASE-T4 hub).

[Page 32: Wireless Lan Connection \(On Selected Models\)](#)

UltraMobilePC 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.

[Page 33: Bluetooth Wireless Connection](#)

UltraMobilePC Bluetooth Wireless Connection UltraMobilePCs with Bluetooth technology eliminates the need for cables for connecting Bluetooth-enabled devices. Examples of Bluetooth-enabled devices may be mouse, keyboard, UltraMobilePCs, Desktop PCs, mobile phones, and PDAs. Note: If your UltraMobilePC did not come with built-in Bluetooth, you need to connect a USB Bluetooth module in order to use Bluetooth.

[Page 34: Power Management Modes](#)

UltraMobilePC Power Management Modes The UltraMobilePC 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. ACPI power management settings are made through the operating system.

[Page 35: Power State Summary](#)

UltraMobilePC Power State Summary STATE ENTRY EVENT EXIT EVENT • "Stand by" through Windows Start button • Any device "Stand by" • Timer as set through "Power Management" in • Battery low Windows Control Panel (higher priority) • Power button (can be set as STR or STD) •...

[Page 36: Stand By And Hibernate](#)

UltraMobilePC 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"...

[Page 37: Fingerprint Scanner](#)

UltraMobilePC Fingerprint Scanner The fingerprint scanner can be used for instant and secure user authentication. Right click the taskbar icon to open the software You can launch the software from Windows "Start" menu to edit users or make settings if the taskbar icon is not running...

[Page 38](#) UltraMobilePC Fingerprint Scanner (Cont.) Select the authentication methods you wish to use Select a finger on the screen and slowly swipe for this user account◆ your finger over the fingerprint scanner several times until the finger on the screen turns yellow. Repeat for other fingers as you wish.

[Page 39: Gps Software](#)

UltraMobilePC GPS Software The included software may be used with the built-in GPS system. Choose Tools | GPS | Configure GPS Receiver..., select COM2, and click OK. Select Tools | GPS | Start GPS Tracking. The GPS Sensor will acquire information for these fields once a satellite fix is acquired.

[Page 40](#) UltraMobilePC...

[Page 41: Appendix](#)

UltraMobilePC Appendix Optional Accessories Optional Connections Glossary Declarations and Safety Statements UltraMobilePC Information...

[Page 42: Optional Accessories](#)

UltraMobilePC Optional Accessories These items, if desired, come as optional items to complement your UltraMobilePC. Foldable USB Keyboard Mini- USB Port Slide latch to open◆ LOCK UNLOCK PrtSc SysRq Pause Break PgUp Home PgDn Slide latch on the top to lock the keyboard in the open position◆ Extend: Pull the USB Retract: Pull the USB connectors fully apart and allow the internal connectors apart (not fully) to...

[Page 43](#) UltraMobilePC PortBar Notes: (1) AC power adapter must be used. Cannot be used when UltraMobilePC is in battery mode. (2) Recommend using two AC power adapters (one on the UltraMo- bilePC and one on the PortBar) when using all ports on UltraMobilePC and PortBar. (3) Disables UltraMobilePC's LAN port when connected.

[Page 44](#) UltraMobilePC PortBar (Cont.) Plug the PortBar to the expansion port◆ Keep the PortBar connector in the keeper when not in use to protect the contacts◆ Plug the UltraMobilePC's power adapter into this power port so that you can easily free the UltraMobilePC from all your peripherals with just one connector◆...

[Page 45: More Optional Accessories](#)

UltraMobilePC More Optional Accessories These items, if desired, come as optional items to complement your UltraMobilePC. 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. Notes: Recommend using two AC power adapters (one on the UltraMobilePC and one on the PortBar) when using all ports on UltraMobilePC and PortBar.

[Page 46: Optional Connections](#)

UltraMobilePC Optional Connections 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 47](#) UltraMobilePC Bluetooth mouse (optional) 2◆ Install two "AA" batteries◆ 1◆ A Bluetooth icon should be located on 3◆ Turn ON the switch on the your Windows taskbar◆ bottom of the mouse◆ Right click the taskbar OFF ON Bluetooth icon and 4◆...

[Page 48: Troubleshooting](#)

UltraMobilePC Troubleshooting Question: How do I check if my Bluetooth is ready? In "Device Manager", check if "Bluetooth Personal Area Network" is available as shown here◆ Question: I cannot see my Bluetooth mouse in the list. What do I do? Click Refresh in the software and "RESET" on the mouse◆ Repeat if necessary◆...

[Page 49: Glossary](#)

UltraMobilePC 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 50](#) UltraMobilePC Bluetooth (on selected models) Bluetooth is a short-range wireless technology that lets you connect computers, mobile phones, and handheld devices to each other and to the Internet. Bluetooth technology eliminates the need for the cables that connect devices together. Bluetooth-enabled devices connect wirelessly within a 10 m range.

[Page 51](#) UltraMobilePC IDE (Integrated Drive Electronics) IDE devices integrate the drive control circuitry directly on the drive itself, eliminating the need for a separate adapter card (in the case for SCSI devices). UltraDMA/66 or 100 IDE devices can achieve up to 33MB/Sec transfer. 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.

[Page 52](#) UltraMobilePC USB (Universal Serial Bus) A new 4-pin serial peripheral bus that allows plug and play computer peripherals such as keyboard, mouse, joystick, scanner, printer and modem/ISDN to be automatically configured when they are attached physically without having to install drivers or reboot. With USB, the traditional complex cables from back panel of your computer can be eliminated.

[Page 53](#) UltraMobilePC Certifications 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.

[Page 54](#) UltraMobilePC FCC Radio Frequency Interference Requirements 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 55](#) UltraMobilePC CE Mark Warning This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. IC Radiation Exposure Statement for Canada This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

[Page 56](#) UltraMobilePC Wireless Operation Channel for Different Domains N. America 2.412-2.462 GHz Ch01 through CH11 Japan 2.412-2.484 GHz Ch01 through Ch14 Europe ETSI 2.412-2.472 GHz Ch01 through Ch13 France Restricted Wireless Frequency Bands Some areas of France have a restricted frequency band. The worst case maximum authorized power indoors are: •...

[Page 57](#) UltraMobilePC 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 58](#) UltraMobilePC Nordic Lithium Cautions (for lithium-ion batteries) 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. Sostituire la batteria con una di tipo uguale o equivalente consigliata dalla fabbrica.

This manual is also suitable for:

