

TOSHIBA

Toshiba 2000 User Manual

Portable personal computer

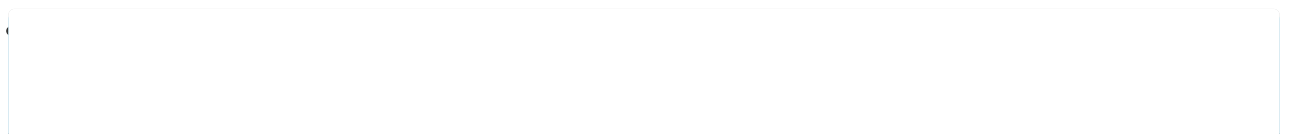
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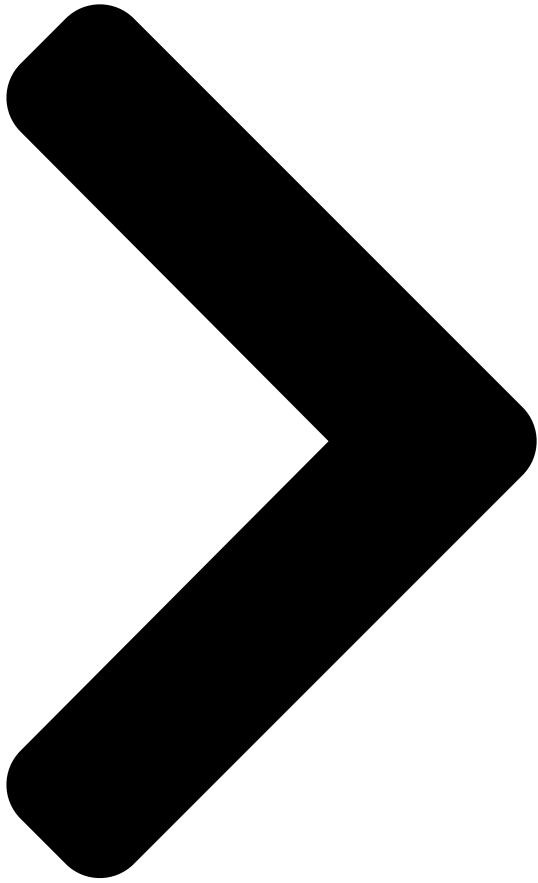
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Summary of Contents for Toshiba 2000

[Page 1](#) TOSHIBA 2000 Portable Personal Computer User's Manual...

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[Page 3: Fcc Information](#)

WARNING: Only peripherals complying with the FCC class B limits may be attached to this

equipment. Operation with non-compliant peripherals or peripherals not recommended by TOSHIBA is likely to result in interference to radio and TV reception. Shielded cables must be used between the external devices and the computer's external monitor port,...

[Page 4: Fcc Conditions](#)

Irvine, California 92618-1697 Telephone: (949) 583-3000 EU Declaration of Conformity TOSHIBA declares, that the product: PP200* conforms to the following Standards: Supplementary Information: "The product complies with the requirements of the Low Voltage Directive 73/23/EEC, the EMC Directive 89/336/EEC and/or the R&TTE Directive 1999/05/EEC."...

[Page 5](#) Modem warning notice Conformity Statement The equipment has been approved to [Commission Decision "CTR21"] 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/regions the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

[Page 6: Region Selection](#)

Japan regulations Region selection If you are using the computer in Japan, technical regulations described in the Telecommunications Business Law require that you select the Japan region mode. It is illegal to use the modem in Japan with any other selection. Redial Up to two redial attempts can be made.

[Page 7: Type Of Service](#)

FCC. In the event repairs are ever needed on your modem, they should be performed by TOSHIBA Corporation or an authorized representative of TOSHIBA Corporation.

[Page 8: Fax Branding](#)

Fax branding The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone fax machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business, other entity or individual sending the message and the telephone number of the sending machine or such business, other...

[Page 9](#) NOTICE: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

[Page 10](#) Notes for use of this device in New Zealand The grant of a Telepermit for a device in no way indicates Telecom acceptance of responsibility for the correct operation of that device under all operating conditions. In particular the higher speeds at which this modem is capable of operating depend on a specific network implementation which is only one of many ways of delivering high quality voice telephony to customers.

[Page 11](#) When used in the Auto Answer mode, the S0 register must be set with a value of 3 or 4. This ensures: (a) a person calling your modem will hear a short burst of ringing before the modem answers. This confirms that the call has been successfully switched through the network.

[Page 12: General Conditions](#)

General conditions As required by PTC 100, please ensure that this office is advised of any changes to the specifications of these products which might affect compliance with the relevant PTC Specifications. The grant of this Telepermit is specific to the above products with the marketing description as stated on the Telepermit label artwork.

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[Page 19: Preface](#)

This manual tells how to set up and begin using your 2000 computer. It also provides detailed information on configuring your computer, basic operations and care, using optional devices and troubleshooting.

[Page 20: Conventions](#)

User's Manual Chapter 6, Power and Power-Up Modes, gives details on the computer's power resources and battery save modes. Chapter 7, HW Setup and Passwords, explains how to configure the computer using the HW Setup program. It also tells how to set a password. Chapter 8, Optional Devices, describes the optional hardware available.

[Page 21: Key Operation](#)

Conventions Key operation Some operations require you to simultaneously use two or more keys. We identify such operations by the key top symbols separated by a plus sign (+). For example, Ctrl + C means you must hold down Ctrl and at the same time press C. If three keys are used, hold down the first two and at the same time press the third.

[Page 22](#) User's Manual xxii...

[Page 23: General Precautions](#)

General Precautions TOSHIBA computers are designed to optimize safety, minimize strain and withstand the rigors of portability. However, certain precautions should be observed to further reduce the risk of personal injury or damage to the computer. Be certain to read the general precautions below and to note the cautions included in the text of the manual.

[Page 24](#) User's Manual xxiv...

[Page 25: Chapter 1 Introduction](#)

The computer is configured with one of three sets of preinstalled software, manual packages and auxiliary media depending on your choice of operating system. "Windows XP" is the Microsoft® Windows® XP Professional operating system. "Windows 2000" is the Microsoft® Windows® 2000 Professional operating system. Windows XP The following software is preinstalled: •...

[Page 26](#) • SPANworks 2000 Professional • TOSHIBA Skins for Windows Media Player • Online manual Documentation: • 2000 Portable Personal Computer User's Manual • Microsoft Windows XP Professional manual package • Instruction Manual for Safety & Comfort • End User License Agreement •...

[Page 27: Features](#)

Features Features The computer uses TOSHIBA's advanced Large Scale Integration (LSI), Complementary Metal-Oxide Semiconductor (CMOS) technology extensively to provide compact size, minimum weight, low power usage, and high reliability. This computer incorporates the following features and benefits: Processor Built-in Ultra Low Voltage Mobile Intel® Pentium® III processor 750 MHz-M with Enhanced Intel®...

[Page 28: Touch Pad](#)

User's Manual Keyboard Built-in 84 keys or 85 keys, compatible with IBM enhanced keyboard, embedded numeric overlay, dedicated cursor control, keys. Touch pad Built-in A touch pad and control buttons in the palm rest enable control of the on-screen pointer and scrolling of windows. Power Battery Pack The computer is powered by one rechargeable lithium-ion...

[Page 29](#) TOSHIBA Console Press this button to launch an application automatically. button In Windows XP/2000 the default is TOSHIBA Console. Use the TOSHIBA Control to associate an application to this button. Internet button Press this button to launch an Internet browser. See...

[Page 30: Special Features](#)

Special features The following features are either unique to TOSHIBA computers or are advanced features, which make the computer more convenient to use. Hotkeys Key combinations let you quickly modify the system configuration directly from the keyboard without running a system configuration program.

[Page 31](#) Special features System automatic This feature automatically turns off power to the system power off when there is no input for a time specified. You can specify the time in the System standby or System hibernate item of the System Power Mode window in Power Saver. Battery save mode This feature lets you save battery power.

[Page 32: Utilities](#)

This section describes preinstalled utilities and tells how to start them. For details on operations, refer to each utility's online manual, help files or readme files. TOSHIBA Power Saver To access this power savings management program in Windows 2000, open the Control Panel and double-click the TOSHIBA Power Saver icon.

[Page 33](#) Start, point to Settings, click Control Panel and double-click the Network icon. TOSHIBA Accessibility This utility lets you make the Fn key sticky, that is, you can press it once, release it, and they press an "F number"...

[Page 34: Options](#)

MB memory module. The modules are SD Random Access Memory (SD-RAM). Battery Pack An Battery Pack (PA3154U) can be purchased from your TOSHIBA dealer. The Battery Pack is identical to the one that came with your computer. Use it as a spare or replacement. High Capacity 2nd This Battery Pack (PA3155U) increases your computer's...

[Page 35: Chapter 2 The Grand Tour](#)

Chapter 2 The Grand Tour This chapter identifies the various components of your computer. Become familiar with each component before you operate the computer. Front with the display closed Figure 2-1 shows the computer's front with its display panel in the closed position. POWER SOURCE SYSTEM INDICATORS DISPLAY LATCH...

[Page 36: Left Side](#)

User's Manual Left side Figure 2-2 shows the computer's left side. SECURITY LOCK SLOT CARD INDICATOR CARD SLOT AN VENT Figure 2-2 The left side of the computer Security lock A security cable attaches to this slot. The optional security slot cable anchors your computer to a desk or other large object to deter theft.

[Page 37: Right Side](#)

Right side Right side Figure 2-3 shows the computer's right side. WIRELESS COMMUNICATION SWITCH CARD SLOT HEADPHONE JACK MICROPHONE JACK INFRARED PORT Figure 2-3 The right side of the computer Wireless Slide this switch to the right to turn on Wireless LAN. communication

Slide it to the left to turn off the functions.

[Page 38: Back Side](#)

User's Manual Back side Figure 2-4 shows the computer's back side. INDICATOR XTERNAL MONITOR PORT DC IN 15V ODEM JACK JACK PORTS Figure 2-4 The computer's back side Modem jack In areas where an internal modem is installed as standard equipment, there is a modem jack that lets you use a modular cable to connect the modem directly to a tele- phone line.

[Page 39: Underside](#)

The Battery Pack powers the computer when the AC adaptor is not connected. The Batteries section in Chapter 6, Power and Power-Up Modes, describes how to access the Battery Pack. Battery Packs can be purchased from your TOSHIBA dealer to extend the computer's battery operating time.

[Page 40: Front With The Display Open](#)

Figure 2-6 shows the front of the computer with the display open. To open the display, push the display latch on the front of the computer and lift the display up. Position the display at a comfortable viewing angle. NTERNET ISPLAY SCREEN BUTTON TOSHIBA C ONSOLE BUTTON ISPLAY HINGE ISPLAY ENSOR...

[Page 41](#) TOSHIBA Console Press this button to launch an application automatically. button The default is TOSHIBA Console. Touch pad A Touch pad located in the center of the palm rest is used to control the on-screen pointer. Refer to the...

[Page 42: Indicators](#)

User's Manual Indicators Figure 2-7 shows the indicators, which light when various computer operations are in progress. IRELESS ECONDARY COMMUNICATION BATTERY BATTERY OWER DC IN Figure 2-7 The power source/system indicators Power source/system indicators DC IN The DC IN indicator glows green when DC power is supplied from the AC power adaptor.

[Page 43](#) Indicators Disk The Disk indicator glows green when the computer is accessing a disk drive. Wireless The Wireless communication indicator lights when the communication Wireless LAN function is turned on. (This indicator is used only models with Wireless LAN functions.) The figures below show the positions of the keypad overlay indicators and the CapsLock indicator.

[Page 44: Ac Adaptor](#)

Figure 2-10 The AC adaptor CAUTION: Use only the AC adaptor that came with the computer or an equivalent optional adaptor. Use of the wrong adaptor could damage your computer. TOSHIBA assumes no liability for any damage in such case. 2-10...

[Page 45: Chapter 3 Getting Started](#)

If you are a new user, follow the steps in each section of this chapter as you prepare to operate your computer. NOTE: All users should be sure to carefully read the sections Windows XP Professional/2000 setup, which describe actions to take when you turn on the power for the first time.

[Page 46: Setting Up Your Work Space](#)

User's Manual Setting up your work space Establishing a comfortable work site is important for you and your computer. A poor work environment or stressful work habits can result in discomfort or serious injury from repetitive strain to your hands, wrists or other joints. Proper ambient conditions should also be maintained for the computer's operation.

[Page 47: Seating And Posture](#)

Setting up your work space Place the computer so that it is directly in front of you when you work and make sure you have adequate space to easily operate other devices. Allow adequate space behind the computer to let you freely adjust the display. The display should be angled to reduce glare and maximize visibility.

[Page 48: Lighting](#)

User's Manual Lighting Proper lighting can improve legibility of the display and reduce eye strain. Position the computer so that sunlight or bright indoor lighting does not reflect off the screen. Use tinted windows, shades or other screen to eliminate sun glare.

[Page 49: Opening The Display](#)

Pack, refer to Chapter 6, Power and Power-Up Modes. CAUTION: Use only the AC adaptor that came with the computer or an equivalent optional adaptor. Use of the wrong adaptor could damage your computer. TOSHIBA assumes no liability for any damage in such case.

[Page 50](#) User's Manual 1. Connect the power cord to the AC adaptor. Figure 3-3 Connecting the power cord to the AC adaptor 2. Connect the AC adaptor's DC output plug to the DC IN port on the back of the computer. Figure 3-4 Connecting the adaptor to the computer 3.

[Page 51: Turning On The Power](#)

Turning on the power Turning on the power This section describes how to turn on the power. NOTE: After you turn on the power for the first time, do not turn it off until you have set up the operating system (OS) and the OS has started 1.

[Page 52: Windows Xp Professional/2000 Setup](#)

3. If you are using Windows XP, click start then click Turn off computer. From the Turn off computer menu select Turn off . If you are using Windows 2000, click Start and click Shut Down. From the Shut Down menu select Shut Down.

[Page 53: Hibernation Mode](#)

NOTE: For the computer to shut down in hibernation mode, the hibernation feature must be enabled in two places in TOSHIBA Power Saver: the Hibernate window and the Battery Alarm item of the Alarm window.

[Page 54: Starting Hibernation](#)

1. In Windows XP, open the Control Panel, click Performance and Maintenance and click the TOSHIBA Power Saver icon. In Windows 2000, open the Control Panel and double-click the TOSHIBA Power Saver icon. 2. Select the Hibernate window, select the Enable Hibernate support check box and click the Apply button.

[Page 55: Standby Mode](#)

Turning off the power Data save in hibernation mode When you turn off the power in hibernation mode, the computer takes a moment to save current memory data to the hard disk. During this time, the Disk indicator will light. After you turn off the computer and memory is saved to the hard disk, turn off the power to any peripheral devices.

[Page 56](#) 1. In Windows XP, click Start, click Turn Off Computer and click Stand by. In Windows 2000, click Start, click Shut Down, select Stand by and click 2. Close the display panel. This feature must be enabled. Refer to the System Power Mode item in Power Saver Utility described in the Control Panel.

[Page 57: Restarting The Computer](#)

1. If you are using Windows XP, click start then click Turn off computer. From the Turn off computer menu select Restart. If you are using Windows 2000, click Start and click Shut Down. From the Shut Down menu select Restart.

[Page 58](#) User's Manual 3-14...

[Page 59: Chapter 4 Operating Basics](#)

Chapter 4 Operating Basics This chapter gives information on basic operations including using the Touch Pad, the external diskette drive, the wireless communication, LAN and the internal modem. It also provides tips on caring for your computer and on heat dispersal. Using the Touch Pad To use the Touch Pad, simply press and move your finger tip across it in the direction you want the on-screen pointer to go.

[Page 60: Using The Usb Fdd Kit](#)

User's Manual For some functions, you can tap the touch pad instead of pressing a control button. Click Tap the touch pad once Double-click Tap the touch pad twice Drag and drop 1. Hold down the left control button and move the cursor to drag the item you want to move.

[Page 61: Connecting 3 1/2" Diskette Drive](#)

Using the USB FDD Kit CAUTION: Check the Disk-In-Use indicator when you use the diskette drive. Do not press the eject button, disconnect a drive cable or turn off the computer while the light is glowing. Doing so could destroy data and damage the diskette or the drive.

[Page 62: Disconnecting 3 1/2" Diskette Drive](#)

User's Manual NOTE: If you connect the diskette drive after turning on the computer, it will take about 10 seconds for the computer to recognize the drive. Do not disconnect and reconnect before 10 seconds has elapsed. Disconnecting 3 1/2" diskette drive When you have finished using the diskette drive, follow the procedures below to disconnect it: 1.

[Page 63: Wireless Communications](#)

Wireless communications Wireless communications The computer's wireless communication function support wireless LAN. This section applies only to models with Wireless LAN functions. Wireless LAN The wireless LAN is compatible with other LAN systems based on Direct Sequence Spread Spectrum radio technology that complies with IEEE 802.11 wireless LAN standard (Revision B).

[Page 64: Lan](#)

User's Manual If you used the Task Tray icon to disable W-LAN, restart the computer or follow the procedures below to enable the system to recognize W-LAN. Open or click the following: Start, Setup, Control Panel, System, Device Manager and Renew.

[Page 65: Disconnecting Cable](#)

2. Plug one end of the cable into the LAN's jack. Press gently until you hear the latch click into place. Figure 4-4 Connecting the LAN cable 3. Plug the other end of the cable into a LAN hub connector. Check with your LAN administrator before connecting to a hub.

[Page 66: Network Device Switch](#)

User's Manual Network Device Switch This application is used to select one network device on your system and to prevent inconsistent routing table problems on TCP/IP networks. Using the switch To select a network device, follow the steps below. 1. In Windows XP, click start, point to All Programs, click Network Device Switch.

[Page 67](#) Auto Switch When Auto Switch is selected, this application automatically enables the wireless LAN device when you disconnect the LAN cable. This feature works only if a wired LAN device is currently enabled and the LAN uses TCP/IP protocol. Disabled Click Disabled to disable or enable this program's features.

[Page 68: Super Long Life Scheme](#)

User's Manual Super Long Life scheme The Super Long Life mode is a scheme of the TOSHIBA Power Saver utility. It is designed to maximize battery operating time. In the default setting, wired and wireless LAN functions are disabled. To enable LAN functions, clear the Control device power management checkbox.

[Page 69: Properties Menu](#)

2. The Region Selection icon will appear in the Windows Task Bar. Figure 4-7 The Region Selection icon (Windows XP) Figure 4-8 The Region Selection icon (Windows 2000) 3. Click the icon with the primary mouse button to display a list of regions that the modem supports.

[Page 70: Modem Selection](#)

User's Manual Figure 4-10 The menu list (Windows 2000) Setting You can enable or disable the following settings: AutoRun Mode Region Select Utility starts automatically when you start up the operating system. Open the Dialing Properties dialog box after selecting region.

[Page 71: Connecting](#)

Using the internal modem CAUTION: If you are using the computer in Japan, technical regulations described in the Telecommunications Business Law require that you select Japan region mode. It is illegal to use the modem in Japan with any other selection. Connecting To connect the internal modem cable, follow the steps below.

[Page 72: Disconnecting](#)

User's Manual Disconnecting To disconnect the internal modem cable, follow the steps below. 1. Pinch the lever on the connector in the telephone jack and pull out the connector. 2. Disconnect the cable from the computer in the same manner. 3.

[Page 73: Heat Dispersal](#)

Or, by lowering the CPU speed first, then if necessary, turning on the fan. Use the Fan item of the Power Save Mode window in TOSHIBA Power Saver. When the CPU temperature falls to a normal range, the fan is turned off and the CPU operation returns to standard speed.

[Page 74](#) User's Manual 4-16...

[Page 75: Chapter 5 The Keyboard](#)

Chapter 5 The Keyboard The computer's keyboard layouts are compatible with a 101/102-key enhanced keyboard. By pressing some keys in combination, all the 101/102-key keyboard functions can be executed on the computer. The number of keys on your keyboard depends on which country/region's key-board layout your computer is configured with.

[Page 76: F1 ... F12 Function Keys](#)

Soft keys: Fn key combinations The Fn (function) is unique to TOSHIBA computers and is used in combination with other keys to form soft keys. Soft keys are key combinations that enable, disable or configure specific features.

[Page 77](#) Soft keys: Fn key combinations The keyboard is designed to provide all the features of the 101-key enhanced keyboard, shown in figure 5-1. The 101/102-key enhanced keyboard has a numeric keypad and scroll lock key. It also has additional Enter, Ctrl and Alt keys to the right of the main keyboard.

[Page 78: Hotkeys](#)

User's Manual Hotkeys Hotkeys (Fn + another key) let you enable or disable certain features of the computers. Sound mute: Pressing Fn + Esc in a Windows environment turns sound on or off. When you press these hotkeys, the current setting will be displayed as an icon. Volume decrease: Press Fn + 1 to decrease the sound volume.

[Page 79](#) Soft keys: Fn key combinations Power save mode: Pressing Fn + F2 changes the power save mode. If you press Fn + F2, the Power Save Mode is displayed in a dialog box. Continue holding down Fn and press F2 again to change the setting. You can also change this setting through the Plugged in or Running on batteries item of the Power Saver Properties window in Power Saver.

[Page 80: Fn Sticky Key](#)

LCD turns on. To protect display quality, the brightness level is set at the maximum value. Fn Sticky key You can use the TOSHIBA Accessibility Utility to make the Fn key sticky, that is, you can press it once, release it, and they press an "F number" key.

[Page 81: Windows Special Keys](#)

Keypad overlay Windows special keys The keyboard provides two keys that have special functions in Windows : one activates the Start menu and the other has the same function as the secondary mouse button. This key activates the Windows Start menu. This key has the same function as the secondary mouse button.

[Page 82: Temporarily Using Normal Keyboard \(Overlay On\)](#)

User's Manual Numeric mode To turn on the Numeric mode, press Fn + F11. The Numeric mode indicator lights. Now try numeric data entry using the keys in figure 5-2. Press Fn + F11 again to

turn off the overlay. Figure 5-2 The numeric keypad overlay Temporarily using normal keyboard (overlay on) While using the overlay, you can temporarily access the normal keyboard without...

[Page 83: Temporarily Using Overlay \(Overlay Off\)](#)

Generating ASCII characters Temporarily using overlay (overlay off) While using the normal keyboard, you can temporarily use the keypad overlay without turning it on: 1. Press and hold down Fn. 2. Check the keyboard indicators. Pressing Fn turns on the most recently used overlay.

[Page 84](#) User's Manual 5-10...

[Page 85: Chapter 6 Power And Power-Up Modes](#)

Chapter 6 Power and Power-Up Modes The computer's power resources include the AC adaptor and internal batteries. This chapter gives details on making the most effective use of these resources including charging and changing batteries, tips for saving battery power, and power up modes.

[Page 86](#) User's Manual Table 6-1 Power conditions continued Power on Power off (no operation) 2nd battery • Operates • LED: 2nd battery green adaptor fully • LED: 2nd battery green DC IN green connected charged DC IN green 2nd battery • Operates • ...

[Page 87](#) Power conditions Table 6-1 Power conditions continued Power on Power off (no operation) 2nd battery • Operates adaptor charge • LED: 2nd battery off is above DC IN off connected low battery trigger point 2nd battery • Operates charge • LED: 2nd battery is below flash orange low battery...

[Page 88: Power Indicators](#)

User's Manual Power indicators The Main battery, Secondary battery, DC IN and Power indicators on the system indicator panel alert you to the computer's operating capability and battery charge status. Battery indicators Check the Main battery indicator to determine the status of the main battery and the Secondary battery indicator to determine the status of the secondary battery.

[Page 89: Power Indicator](#)

Dispose of the battery as required by local ordinances or regulations. Use only batteries recommended by TOSHIBA as replacements. The main battery recharges the RTC batteries. The main battery maintains the state of the computer when you enable standby mode.

[Page 90: Secondary Battery \(Option\)](#)

Check system. Then press [F1] key ..CAUTION: The computer's RTC battery is a lithium ion battery and should be replaced only by your dealer or by a TOSHIBA service representative. The battery can explode if not properly replaced, used, handled or disposed of.

[Page 91: Care And Use Of The Battery Pack](#)

Care and use of the Battery Pack Care and use of the Battery Pack The Battery Pack is a vital component of portable computing. Taking proper care of it will help ensure longer operating time on battery power as well as a longer life for your Battery Pack.

[Page 92: Charging The Batteries](#)

The Battery indicator glows orange when the battery is being charged. CAUTION: Use only the computer connected to an AC power source or the optional TOSHIBA Battery charger to charge the Battery Pack. Do not attempt to charge the Battery Pack with any other charger.

[Page 93: Monitoring Battery Capacity](#)

In this case, TOSHIBA Power Saver will indicate a 100% charge for both the old and new battery, but the displayed estimated...

[Page 94: Maximizing Battery Operating Time](#)

User's Manual Maximizing battery operating time A battery's usefulness depends on how long it can supply power on a single charge. How long the charge lasts in a battery depends on: How

you configure the computer, for example, whether you enable battery- power saving options.

[Page 95: Extending Battery Life](#)

Replacing the Battery Pack Extending battery life To maximize the life of your Battery Pack: At least once a month, disconnect the computer from a power source and operate it on battery power until the Battery Pack fully discharges. Before doing so, follow the steps below.

[Page 96: Removing The Battery Pack](#)

5. Slide the battery lock to free the Battery Pack for removal. 6. Fit your finger into the indentation next to the Battery Pack and lift it out. CAUTION: For environmental reasons, do not throw away a spent Battery Pack. Please return spent Battery Packs to your TOSHIBA dealer. BATTERY LOCK...

[Page 97: Installing The Battery Pack](#)

Dispose of the battery as required by local ordinances or regulations. Use only batteries recommended by TOSHIBA as replacements. 1. Be sure the computer's power is off and all cables are disconnected.

[Page 98: Starting The Computer By Password](#)

User's Manual Starting the computer by password If you registered a password as supervisor or user, you must enter it to start the computer. To start up the computer with the password, follow these steps: 1. Turn on the power as described in Chapter 3, Getting Started and the following message appears:...

[Page 99: Chapter 7 Hw Setup And Passwords](#)

If you are using Windows XP, click start, click Control Panel, click Printers and Other Hardware and select TOSHIBA HW Setup to run HW Setup. If you are using Windows 2000, click Start, point to Settings, click Control Panel and select TOSHIBA HW Setup to run HW Setup.

[Page 100: Hw Setup Window](#)

User's Manual HW Setup window The HW Setup window contains the following tabs: display, CPU, boot priority, USB, LAN, general, password, device config. Figure 7-1 HW setup window (Windows XP)

[Page 101](#) HW Setup Figure 7-2 HW setup window (Windows 2000) There are also three buttons: OK, Cancel and Apply. OK Accepts your changes and closes the HW Setup window. Cancel closes the window without accepting your changes. Apply Accepts all your changes without closing the HW Setup window.

[Page 102](#) User's Manual General This window displays the BIOS version and contains two buttons: Default and About. Default Return all HW Setup values to the factory settings. About Display the HW Setup version.. About Setup This field displays BIOS Version and date. Password User Password This option allows you to set or reset the user password for power on.

[Page 103](#) HW Setup 4. If character strings match, the password is registered and the display changes Registered If they do not match, the following message appears. You must repeat from step 1. Entry Error!!! To delete a user password: 1. Select Not Registered to display the following prompt: Enter Password: 2.

[Page 104: Device Config](#)

User's Manual Device Config Device Configuration This option lets you set the device configuration. BIOS sets all devices. All Devices Operating system sets devices that it can control. (Default) Setup by OS Display This tab lets you customize your computer's display settings for either the internal LCD screen or for an external monitor.

[Page 105: Boot Priority](#)

HW Setup Boot Priority Boot Priority Options This option sets the priority for booting the computer. Select from the following settings: HDD - > - > - > - > FDD - > - > - > - > CD-ROM - > - > - > - > LAN The computer looks for bootable files in the following order: HDD, diskette drive, CD-ROM* and LAN.

[Page 106](#) User's Manual NOTES: 1. PC card HDD boot is supported only by the PC card slot on the computer. Support is guaranteed only for TOSHIBA PC card HDDs. 2. When you assign a PC card HDD top priority, "PC" is not displayed.

[Page 107: Supervisor Password](#)

Disables built-in LAN functions. Disabled Supervisor password Refer to the readme file of the Supervisor Password Utility for instructions on setting the Supervisor Password. The path to the readme file is C:\Program Files\TOSHIBA\Windows Utilities\SVPWTool. In the SVPWTool directory, open the readme.htm file.

[Page 108](#) User's Manual 7-10...

[Page 109: Chapter 8 Optional Devices](#)

Chapter 8 Optional Devices Optional devices can expand the computer's capabilities and its versatility. The following optional devices are available from your TOSHIBA dealer: Cards/memory PC cards SD cards Memory expansion Power devices Battery Pack High Capacity 2nd Battery Pack...

[Page 110: Pc Cards](#)

The computer is equipped with a PC card expansion slot that can accommodate one 5 mm Type II card. Any PC card that meets industry standards (manufactured by TOSHIBA or other vendor) can be installed. The slots support 16-bit PC cards, including PC card 16's multifunction card and CardBus PC cards.

[Page 111](#) PC cards 3. Pull the dummy card out and store it in a safe place. Install the dummy card whenever you remove the PC card. UMMY CARD JECT BUTTON Figure 8-1 Removing the dummy card 4. Insert the PC card. When the card is almost fully seated, you will feel some resistance.

[Page 112: Removing A Pc Card](#)

User's Manual Removing a PC card To remove the PC card, follow the steps below. 1. Push the eject button and release it to extend the button. 2. Press the extended eject button to pop the card out slightly. 3. Grasp the card and pull it out. CARD JECT BUTTON Figure 8-3 Removing the PC card...

[Page 113: Sd Cards](#)

SD cards SD cards The computer is equipped with an SD card slot that can accommodate Secure Digital flash memory cards with capacities of 8 MB, 16 MB, 32 MB, 64 MB and 128 MB. SD cards let you easily transfer data from devices, such as digital cameras and Personal Digital Assistants, that use SD card flash-memory.

[Page 114: Removing An Sd Card](#)

1. a. In Windows XP, open the Safety Remove Hardware icon on the system tray and disable the SD card. b. In Windows 2000, open the Unplug or Eject Hardware icon on the system tray and disable the SD card.

[Page 115: Installing Memory Module](#)

Memory expansion Installing memory module To install a memory module, make sure the computer is in boot mode then: 1. Turn the computer off in boot mode. Refer to the Turning off the power section in Chapter 3. CAUTION: Do not remove the memory module while the computer is in standby mode.

[Page 116](#) User's Manual 6. Align the connector on the memory module with the computer's connector and carefully press the module above the connector to ensure a solid connection. CAUTIONS: 1. Do not touch the connectors on the memory module or on the computer.

[Page 117: Removing Memory Module](#)

Memory expansion 9. When you turn the computer on, it should automatically recognize the total memory capacity. Use the HW Setup program to verify that the added memory is recognized. If it is not recognized, check the module's connection. NOTE: When you view the

memory display, the total amount will be reduced by 16 MB, which is used for VRAM.

[Page 118: Battery Pack](#)

User's Manual 7. Grasp the memory module by the sides and lift it out. CAUTION: Do not touch the connectors on the memory module or on the computer. Debris on the connectors may cause memory access problems. Figure 8-10 Removing the memory module 8.

[Page 119: Battery Charger](#)

Slim Port Replicator Battery Charger The battery charger (PA3091U) lets you charge a High Capacity 2nd Battery Pack (PA3155U) outside the computer. USB FDD Kit The 3 1/2" external diskette drive module can be connected to the USB port. For details on connecting the 3 1/2"...

[Page 120: High Capacity 2Nd Battery Pack](#)

User's Manual High Capacity 2nd Battery Pack To charge a High Capacity 2nd Battery Pack, follow the steps below. 1. Connect the computer to the Slim Port Replicator. 2. Connect the dedicated cable to the Slim Port Replicator and to a High Capacity 2nd Battery Pack.

[Page 121: Security Lock](#)

Security lock If you have selected Simultaneous under the Display options of HW Setup, both the external monitor and the internal LCD will be active when you turn on the computer. If Auto-Selected is selected, only the external monitor will be active. To change the display settings, press Fn + F5.

[Page 122](#) User's Manual 8-14...

[Page 123: Chapter 9 Troubleshooting](#)

Chapter 9 Troubleshooting TOSHIBA designed the computer for durability. However, should problems occur, following the procedures in this chapter can help to determine the cause. All readers should become familiar with this chapter. Knowing what might go wrong can help prevent problems from occurring.

[Page 124: Analyzing The Problem](#)

User's Manual Check that your diskette is correctly inserted and that the diskette's write protect tab is correctly set. Make notes of your observations and keep them in a permanent error log. This will help you describe your problems to your dealer. If a problem recurs, the log will help you identify the problem faster.

[Page 125: Hardware And System Checklist](#)

Hardware and system checklist Hardware If you cannot find a software problem, check your hardware. First run through the items in the preliminary checklist above. If you still cannot correct the problem, try to identify the source. The next section provides checklists for individual components and peripherals.

[Page 126: Self Test](#)

When the computer starts up, the self-test will be run automatically, and the following will be displayed: In Touch with Tomorrow TOSHIBA This message remains on the screen for a few seconds. If the self test is successful, the computer tries to load the operating system.

[Page 127: Overheating Power Down](#)

Hardware and system checklist Overheating power down If the computer's internal temperature becomes too high, the computer will automatically enter Hibernation or Resume mode and shut down. Problem Procedure Computer shuts down Leave the computer off until the DC IN indicator and DC IN indicator stops blinking.

[Page 128](#) User's Manual Check the condition of the cord and terminals. If the cord is frayed or damaged, replace it. If the terminals are soiled, wipe them with cotton or a clean cloth. If the AC adaptor still does not power the computer, contact your dealer.

[Page 129: Password](#)

Hardware and system checklist Check the Battery indicator. If it does not glow, let the computer charge the battery for at least 20 minutes. If the Battery indicator glows after 20 minutes, let the battery continue to charge at least another 20 minutes before turning on the computer.

[Page 130: Keyboard](#)

User's Manual Keyboard Keyboard problems can be caused by your setup configuration. For more information refer to Chapter 5, Keyboard. Problem Procedure Some letter keys Check that the numeric keypad overlay is not produce numbers selected. Press Fn + F10 and try typing again. Output to screen Make sure the software you are using is not is garbled...

[Page 131: Hard Disk Drive](#)

Hardware and system checklist Hard disk drive Problem Procedure Computer does not Check if a diskette is in the diskette drive. If a boot from hard disk diskette is inserted, remove it and reboot. drive There may be a problem with your operating system files.

[Page 132: Diskette Drive](#)

User's Manual Diskette drive For more information, refer to Chapter 4, Operating Basics. Problem Procedure Drive does not There may be a faulty cable connection. Check operate the connection to the computer and to the drive. Some programs run The software or hardware configuration may be correctly but others causing a problem.

[Page 133: Pointing Device](#)

Hardware and system checklist Pointing device If you are using a USB mouse, also refer to the USB section in this chapter and to your mouse documentation. Touch Pad Problem Procedure On-screen pointer The system might be busy. If the pointer is does not respond to shaped as an hourglass, wait for it to resume Pad operation...

[Page 134: Usb Mouse](#)

User's Manual USB mouse Problem Procedure On-screen pointer The system might be busy. If the pointer is does not respond to shaped as an hourglass, wait for it to resume cPad operation its normal shape and try again to move it. Make sure the mouse is properly connected to the USB port.

[Page 135: Pc Card](#)

Hardware and system checklist PC card Refer also to Chapter 8, Optional Devices. Problem Procedure PC card Reseat the PC card to make sure it is firmly error occurs connected. Make sure the connection between the external device and the card is firm. Check the card's documentation.

[Page 136: Monitor](#)

User's Manual Monitor Refer also to Chapter 8, Optional Devices, and to your monitor's documentation. Problem Procedure Monitor does not Make sure that the external monitor's power turn on switch is on. Confirm that the external monitor's power cable is plugged into a working power outlet.

[Page 137: Usb](#)

Hardware and system checklist Refer also to your USB device's documentation. Problem Procedure USB device does Check for a firm cable connection between the not work USB ports on the computer and the USB device. Make sure the USB device drivers are properly installed.

[Page 138](#) User's Manual You place a call, Make sure the settings are correct in your but a connection communications application. can't be made After making a call Make sure the tone or pulse selection in your you can't hear a ring communications application is set correctly.

[Page 139: Lan](#)

Hardware and system checklist Problem Procedure Cannot access LAN Check for a firm cable connection between the LAN jack and the LAN HUB. If problems persist, consult your LAN administrator. Wireless LAN If the following procedures do not restore LAN access, consult your

LAN adminis- trator.

[Page 140: Toshiba Support](#)

User's Manual TOSHIBA support If you require any additional help using your computer or if you are having problems operating the computer, you may need to contact TOSHIBA for additional technical assistance. Before you call Some problems you experience may be related to software or the operating system, it is important to investigate other sources of assistance first.

[Page 141](#) TOSHIBA support In Europe Germany & Austria The Rest of Europe TOSHIBA Europe (I.E.) GmbH TOSHIBA Europe (I.E.) GmbH Geschäftsbereich, Geschäftsbereich, Deutschland-Österreich Deutschland-Österreich Hammfelddamm 8, Hammfelddamm 8, D-41460 Neuss, Germany D-41460 Neuss, Germany France TOSHIBA Systèmes France S.A. 7, Rue Ampère B.P. 131,...

[Page 142](#) User's Manual 9-20...

[Page 143: Appendix A Specifications](#)

Appendix A Specifications This appendix summarizes the computer's technical specifications. Physical Dimensions Size With TFT display 289 (w) x 229 (d) x 14.9/19.1 (h) millimeters (does not include the thicker part of the bottom of the computer) Weight Hard disk Memory Display Kilograms...

[Page 144](#) User's Manual Computer 15 VDC 3.0 amperes Built-in Modem Network control unit (NCU) Type of NCU Type of line Telephone line (analog only) Type of dialing Pulse Tone Control command AT commands EIA-578 commands Monitor function Computer's speaker Communication specifications Communication Data: Full duplex...

[Page 145: Display Controller And Modes](#)

Appendix B Display Controller and Modes Display controller The display controller interprets software commands into hardware commands that turn particular pels on or off. The controller is an advanced Video Graphics Array (VGA) that provides Super VGA (SVGA) and Extended Graphics Array (XGA) support for the internal LCD and external monitors.

[Page 146: Video Modes](#)

User's Manual Video modes The computer supports video modes defined in the table below. If your application offers a selection of mode numbers that do not match the numbers on the table, select a mode based on mode type, resolution, character matrix, number of colors and refresh rates.

[Page 147](#) Appendix B Table Video modes continued Video Type Resolution Character Scanning mode matrix colors colors frequency (pels) Vertical 320 x 200 8 x 8 16 of 256K 16 of 256K 70Hz Grph Pels 640 x 200 8 x 8 16 of 256K 16 of 256K 70Hz Grph...

[Page 148](#) User's Manual Table Video modes continued Video Type Resolution Character Scanning mode matrix colors colors frequency (pels) Vertical SVGA 640 x 480 64K of 64K 64K of 64K 60Hz Grph Pels 75Hz 85Hz SVGA 800 x 600 64K of 64K 64K of 64K 60Hz Grph Pels...

[Page 149: At Commands](#)

Appendix C AT Commands In most cases, you will not need to type AT commands manually. However, there might be some occasions when you will need to do so. This chapter describes AT commands for data mode. Fax and voice commands are taken care of by application software.

[Page 150](#) User's Manual Answer command This command instructs the modem to go off-hook and answer an incoming call. Communication standard setting This command determines the communication standard CCITT or Bell. Selects CCITT V.22 mode when the modem is at 1200 bps. Selects Bell 212A when the modem is at 1200 bps (default).

[Page 151](#) Appendix C Return to command mode. Causes the modem to return to command mode after dialing a number, without disconnecting the call. Dial a telephone number previously stored using the &Zn=X command (See &Zn=X command for more information). The range is 0-3. Echo command This command controls whether or not the characters entered from

your computer keyboard are displayed on your monitor (echoed) while...

[Page 152](#) User's Manual Monitor speaker volume This command sets speaker volume to low, medium, or high. Low volume. Low volume. (Same as L0) Medium volume (default). High volume. Result Codes: n=0,1,2,3 ERROR Otherwise Monitor speaker mode This command turns the speaker on or off. The speaker is off.

[Page 153](#) Appendix C Result Codes: n=0,1 ERROR Otherwise Return on-line to data mode Instructs the modem to exit on-line command mode and return to data mode (see AT escape sequence, +++). This command issues a retrain before returning to on-line data mode.

[Page 154](#) User's Manual Select tone dialing This command instructs the modem to send DTMF tones while dialing. Dialed digits are tone dialed until a P command or dial modifier is received. This is the default setting. DCE response format This command controls whether result codes (including call progress and negotiation progress messages) are displayed as words or their numeric equivalents.

[Page 155](#) Appendix C Enable Enable OK, RING, NO CARRIER, ERROR, NODIALTONE, BUSY, CONNECT <RATE>, RRING, NO BONGTONE, DELAYED, BLACKLISTED, REORDER, WARBLE, CALL WAITING DETECTED Dial tone detect Disabled: The modem dials a call regardless of whether it detects a dial tone. Enabled: The modem dials only upon detection of a dial tone, and disconnects the call if the dial tone is not detected within...

[Page 156](#) User's Manual &C0 The state of the carrier from the remote modem is ignored. DCD circuit is always on. &C1 DCD turns on when the remote modem's carrier signal is detected, and off when the carrier signal is not detected (default).

[Page 157](#) Appendix C &Gn V.22bis guard tone control This command determines which guard tone, if any, to transmit while transmitting in the high band (answer mode). This command is only used in V.22 and V.22bis mode. This option is not used in North America and is for international use only.

[Page 158](#) User's Manual &T0 Abort. Stops any test in progress. &T1 Local analog loop. This test verifies modem operation, as well as the connection between the modem and computer. Any data entered at the local DTE is modulated, then demodulated, and returned to the local DTE. To work properly, the modem must be off-line.

[Page 159](#) Appendix C Error control mode selection This command determines the type of error control used by the modem when sending or receiving data. Buffer mode. No error control. Direct mode. MNP or disconnect mode. The modem attempts to connect using MNP2-4 error control procedures. If this fails, the modem disconnects.

[Page 160](#) User's Manual Protocol result code Disable protocol result code appended to DCE speed. Enable protocol result code appended to DCE speed (default). Result Codes: n=0,1 ERROR Otherwise View numbers in blacklist If blacklisting is in effect, this command displays the numbers for which the last call attempted in the past two hours failed.

[Page 161: Appendix D S-Registers](#)

Appendix D S-registers S-registers contain the settings that determine how a number of functions of the internal modem operate. For example, how many times to let the telephone ring before the modem answers and how long to wait before it hangs up if a connection fails.

[Page 162](#) User's Manual Auto answer ring number This register determines the number of rings the modem will count before automatically answering a call. Enter 0 (zero) if you do not want the modem to automatically answer at all. When disabled, the modem can only answer with an ATA command.

[Page 163](#) Appendix D Response formatting character (user defined) This register determines the ASCII value used as the line feed character. The modem uses a line feed character in command mode when it responds to the computer. Range: 0-127, ASCII decimal Default: 10 (line feed) Units: ASCII...

[Page 164](#) User's Manual Connection completion time-out This register sets the time, in seconds, that the modem must wait before hanging up because carrier is not detected. The

timer is started when the modem finishes dialing (originate), or goes off-hook (answer). In originate mode, the timer is reset upon detection of an answer tone if allowed by county restriction.

[Page 165](#) Appendix D Dial line rate S37 = 0 (default) maximum modem speed S37 = 1 reserved S37 = 2 1200/75 bps S37 = 3 300 bps S37 = 4 reserved S37 = 5 1200 bps S37 = 6 2400 bps S37 = 7 4800 bps S37 = 8...

[Page 166: At Command Set Result Codes](#)

User's Manual AT command set result codes The following table shows the result codes. The result code summary Result Code Numeric Description Command executed CONNECT Modem connected to line RING A ring signal has been detected NO CARRIER Modem lost carrier signal, or does not detect carrier signal, or does not detect answer tone ERROR...

[Page 167](#) Appendix D Result Code Numeric Description DELAYED* Delay is in effect for the dialed number BLACKLISTED* Dialed number is blacklisted BLACKLIST FULL* Blacklist is full *1: EC only appears when the Extended Result Codes configuration option is enabled. EC is replaced by one of the following symbols, depending upon the error control method used: V.42bis - V.42 error control and V.42bis data compression.

[Page 168](#) User's Manual...

[Page 169](#) Appendix E V.90 The TOSHIBA internal modem uses V.90 technology. The modem is capable of downstream speeds of 56Kbps (kilobits per second) when connected to an Internet service provider that supports V.90. As with any modem, the actual throughput (speed of data transfer) depends on analog telephone line conditions, which can vary considerably.

[Page 170](#) User's Manual Table E-1 Result codes for a V.90 connection No. Result code Description CONNECT 32000 EC* Connection at 32000 bits/s CONNECT 36000 EC* Connection at 36000 bits/s CONNECT 40000 EC* Connection at 40000 bits/s CONNECT 44000 EC* Connection at 44000 bits/s CONNECT 48000 EC* Connection at 48000 bits/s CONNECT 52000 EC* Connection at 52000 bits/s CONNECT 56000 EC* Connection at 56000 bits/s...

[Page 171](#) Appendix E AT Command -V90=* V.90 Dial Line Rate -V90 sets the maximum V.90 downstream that the modem attempts to connect. -V90=0 V.90 disabled -V90=1 V.90 enabled: automatic speed selection - maximum modem speed (default)

[Page 172](#) User's Manual...

[Page 173: Appendix F Wireless Lan](#)

Wireless LAN Access Points, or other IEEE802.11 compliant LAN systems. Expand the capabilities of your Wireless LAN Access Points, to support Wireless devices that have been equipped with Wireless LAN card. NOTE: The internal Wireless LAN card can't be used with the TOSHIBA Wireless LAN PC card.

[Page 174](#) User's Manual Peer-to-peer workgroup The peer-to-peer workgroup configuration enables you to quickly set up a small Wireless workgroup, where the workgroup participants can exchange files using features such as Files and Printer Sharing as supported by Microsoft Networking. Figure F-1 Peer-to-peer Wireless workgroup You can use this option to set up a temporary or ad-hoc network in environment where no access points are available, for example in Small Office/Home Office (SOHO) environments.

[Page 175](#) Appendix F Enterprise networking Figure F-2 Stand-alone Wireless LAN With the Wireless LAN Access Points you can connect to a corporate Local Area Network (LAN) infrastructure to have Wireless access to all network facilities. LAN Infrastructures may either be. Stand-alone Wireless LANs as pictured in Figure F-2...

[Page 176](#) NOTE: The Wireless LAN card is a radio product. Refer to the flyer Information to the User for regulatory information that may apply in your country/region. Wireless LAN card features The TOSHIBA Wireless LAN mini-PCI card is a Wireless network card that fits into a mini-PCI Type IIIA slot.

[Page 177](#) Appendix F Wireless LAN card types The Wireless LAN card is a Wireless network

card that complies with the IEEE 802.11 standard on Wireless LANs (Revision B). The Wireless LAN card supports data rates up to 11 Mbit/s. Wi-Fi (Wireless Fidelity) certified by the Wireless Ethernet Compatibility Alliance (WECA).

[Page 178](#) User's Manual 5. Set the correct Network Name. Figure F-4 Edit Configuration window 6. In the field Network Name, define the name of the Wireless network to which you want to connect. You can either use:

- The value ANY To connect to any Wireless LAN network in the vicinity of your computer.

[Page 179](#) Appendix F Basic settings for peer-to-peer workgroups NOTE: For Windows XP, refer to the operating system help files for procedures on connecting to an Enterprise Network. If you wish to connect to a peer-to-peer workgroup, use the Add/Edit Configuration Profile window to: 1.

[Page 180](#) User's Manual • If there is already a peer-to-peer group with this name available, your computer will automatically connect to this workgroup. • If there is not yet such a group available, your computer will automatically start one with this name. 7.

[Page 181](#) Appendix F If you cannot find other Wireless LAN networked computers, verify whether the other Wireless LAN computers are: Powered up and logged onto the network. Configured to operate with identical Microsoft Network settings concerning:

- Networking Protocol
- Wireless Network Name
- ...

[Page 182](#) User's Manual View Wireless link quality You can use Client Manager icon on the Windows task bar to verify the link quality of your network connection. An overview of all possible icons is given in Table 1. When the Client Manager icon is not indicating excellent or good radio connection, act as described in Table F-1.

[Page 183](#) If your Client Manager icon is not visible, you have to start the Client Manager program again:

1. Click Start from the Windows task bar.
2. Select Programs, and then select the TOSHIBA Wireless Solution workgroup.
3. Next select Client Manager to start the Client Manager program.

[Page 184](#) User's Manual Advanced configurations NOTE: For Windows XP, refer to the operating system help files for procedures on connecting to an Enterprise Network. Although your Wireless LAN card will work fine in most network environments with the Basic Parameters, you may wish to explore the advanced parameters options as displayed in the Wireless LAN card's Edit Configuration window.

[Page 185](#) Appendix F You can identify up to four different key values to decrypt Wireless data, and select one of these keys to encrypt Wireless data transmissions. Advanced window Use this window to set advanced parameters. Figure F-8 Advanced window Card Power Management To extend the battery life of (mobile) Wireless devices.

[Page 186](#) User's Manual Admin window You can set the following parameters in the Admin window. Figure F-9 Admin parameters Distance between Depending on the number of access points in a Wireless access points LAN network this parameter controls the network performance.

[Page 187: Card Specifications](#)

Appendix F Card specifications Table F-2 Physical specifications Form Factor Mini-PCI Type IIIA Dimensions Weight Temperature and Humidity Operation 0 to 55 C Maximum humidity 95% Transit -20 to 70 C 15 to 95% (no condensation) Storage -10 to 60 C 10 to 90% (no condensation) Although the card may still operate in the range of -20 to 70 C, operation outside the range of 0 to 55 C may no longer be according to specifications.

[Page 188: Radio Characteristics](#)

Network Microsoft Windows® Networking Operating System Host Microsoft Windows® NT v4.0: Operating NDIS4 Miniport Driver System Microsoft Windows® 98/Me/2000 NDIS5 Miniport Driver Microsoft Windows® XP NDIS5.1 Miniport Driver Media Access CSMA/CA (Collision Avoidance) with Protocol Acknowledgment (ACK) Data Rate High...

[Page 189](#) NOTE: The range values listed in Table F-5 are typical distances as measured at the TOSHIBA Wireless LAN laboratories. These values provide rule-of-thumb guides. They may

vary according to the actual radio conditions at the location where the Wireless LAN product is installed.

[Page 190](#) Subject to the radio regulations that apply in your country/region, your Wireless LAN card may support a different set of 2.4 GHz channels (see Table F-6). Consult your Authorized Wireless LAN or TOSHIBA Sales office for information about the radio regulations that apply in your country/region.

[Page 191: Ac Power Cord And Connectors](#)

Appendix G AC Power Cord and Connectors The power cord's AC input plug must be compatible with the various international AC power outlets and the cord must meet the standards for the country/region in which it is used. All cords must meet the following specifications: Length: Minimum 2 meters Wire size:...

[Page 192: Usa And Canada](#)

User's Manual The following illustrations show the plug shapes for the U.S.A. and Canada, the United Kingdom, Australia and Europe. USA and Canada United Kingdom UL approved BS approved CSA approved Australia Europe Approved by the AS approved appropriate agency...

[Page 193: Appendix H Internal Modem Guide](#)

Appendix H Internal Modem Guide This appendix describes how to install and the remove the internal modem. CAUTIONS: 1. Do not remove the base cover except to remove or install the internal modem or to check the PTT label. 2. Do not disassemble the computer beyond the steps described in this instruction or touch any components not specifically described.

[Page 194: Removing The Internal Modem](#)

User's Manual 10. Insert the HDD pack into the slot. 11. Secure the HDD pack cover with two screws. 12. Install the Battery Pack. Removing the internal modem To remove the internal modem. 1. Save your data, quit Windows and turn off the power. 2.

[Page 195: Appendix I Parts Numbers](#)

Appendix I Parts Numbers The computer configuration and parts numbers, printed on a label on the bottom of the computer, indicate the CPU, LCD, memory, HDD and communication devices.

[Page 196](#) PPENDIX...

[Page 197](#) Glossary The terms in this glossary cover the topics discussed in this manual. Alternate naming is included for reference. IrDA: Infrared Data Association Abbreviations IRQ: interrupt request AC: alternating current KB: kilobyte ANSI: American National Standards LCD: liquid crystal display Institute LED: light emitting diode APM: advanced power manager...

[Page 198](#) adaptor ANSI: American National Standards (Abbreviations continued) Institute. An organization established VESA: Video Electronic Standards to adopt and define standards for a Association variety of technical disciplines. For VGA: video graphics array example, ANSI defined the ASCII standard and other information VRT: voltage reduction technology processing requirements.

[Page 199: Cache Memory](#)

cache memory bps: Bits per second. Typically used to describe the data transmission speed of a modem. backup: A duplicate copy of files kept buffer: The portion of the computer's as a spare in case the original is memory where data is temporarily destroyed.

[Page 200](#) capacity capacity: The amount of data that can commands: Instructions you enter at be stored on a magnetic storage the terminal keyboard that direct the device such as a diskette (floppy actions of the computer or its periph- disk) or hard disk. It is usually eral devices.

[Page 201: Disk Drive](#)

disk drive data bits: A data communications control keys: A key or sequence of parameter controlling the number of keys you enter from the keyboard to bits (binary digits) used to make

up a initiate a particular function within a byte.

[Page 202](#) disk storage disk storage: Storing data on magnetic erase: See delete. disk. Data is arranged on concentric escape: 1) A code (ASCII code 27), tracks much like a phonograph record. signaling the computer that what diskette: A removable disk that stores follows are commands;...

[Page 203](#) See also diskette. usually referred to as drive C. The factory installs this disk and only a Fn-esse: A TOSHIBA utility that lets trained engineer can remove it for you assign functions to hotkeys. servicing. Also called fixed disk.

[Page 204](#) HW Setup HW Setup: A TOSHIBA utility that interrupt request: A signal that gives lets you set the parameters for various a component access to the processor. hardware components. I/O: Input/output. Refers to accep- tance and transfer of data to and from a computer.

[Page 205](#) monitor kilobyte (KB): A unit of data storage equal to 1024 bytes. See also byte and megabyte. main board: See motherboard. megabyte (MB): A unit of data storage equal to 1024 kilobytes. See also kilobyte. level 2 cache: See cache. megahertz: A unit of wave frequency Light Emitting Diode (LED): A that equals 1 million cycles per...

[Page 206](#) motherboard motherboard: A name sometimes used to refer to the main printed circuit board in processing equipment. It OCR: Optical Character Recognition usually contains integrated circuits (reader). A technique or device that that perform the processor's basic uses laser or visible light to identify functions and provides connectors for characters and input them into a adding other boards that perform...

[Page 207](#) Class B external devices and make the neces- provides a more stringent classifica- sary configurations in the computer. tion for home equipment use. TOSHIBA portable computers comply with Class B computing device regulations. Glossary-11...

[Page 208](#) Random Access Memory (RAM) Random Access Memory (RAM): soft key: Key combinations that High speed memory within the emulate keys on the IBM keyboard, computer circuitry that can be read or change some configuration options, written to. stop program execution, and access the numeric keypad overlay.

[Page 209: Write Protection](#)

Warm dock/undock: Connecting or excellent screen legibility. disconnecting a device to or from the computer while the computer is TOSHIBA Power Saver: A TOSHIBA suspended. utility that lets you set the parameters for various power-saving functions. warm start: Restarting or resetting a computer without turning it off.

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