



# Toshiba Tecra Z50-C Series User Manual



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Troubleshooting

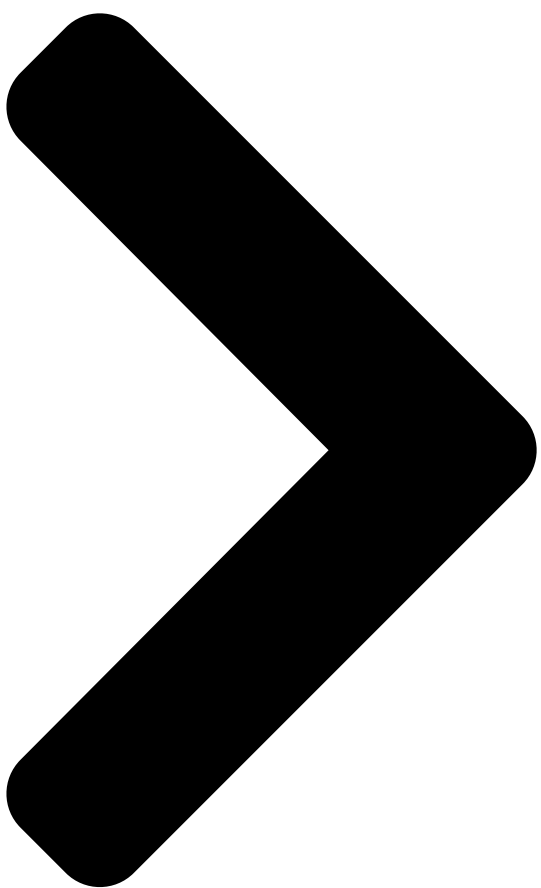
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Bookmarks

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[Download this manual](#)

## Quick Links



Tecra

User's Guide

(Windows 10)

**Leading Innovation >>>**

If you need assistance:

Technical support is available online at Toshiba's Web site at

[support.toshiba.com](http://support.toshiba.com). At this Web site, you will find answers

for many commonly asked technical questions plus many downloadable software drivers, BIOS updates, and other download.

For more information, see

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# Z50-C Series

in this guide.

["If Something Goes Wrong" on](#)

GMAD00455010

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## Troubleshooting

[Using a wireless connection](#) 149

[Troubleshooting an Internet connection - Verify hardware](#) 150

[Troubleshooting an Internet connection - How to verify TCP/IP](#) 151

## Related Manuals for Toshiba Tecra Z50-C Series

[Laptop Toshiba Satellite Pro R50-C Series User Manual](#)

(157 pages)

[Laptop Toshiba TECRA A50-C User Manual](#)

(153 pages)

[Notebook Toshiba WT12PE-A Series User Manual](#)

(109 pages)

[Notebook Toshiba Qosmio X500 User Manual](#)

(204 pages)

## Summary of Contents for Toshiba Tecra Z50-C Series

[Page 1](#) User's Guide (Windows 10) If you need assistance: Technical support is available online at Toshiba's Web site at support.toshiba.com. At this Web site, you will find answers for many commonly asked technical questions plus many downloadable software drivers, BIOS updates, and other downloads.

[Page 2](#) ("TOSHIBA"), ITS AFFILIATES AND SUPPLIERS DO NOT WARRANT THAT OPERATION OF THE PRODUCT WILL BE UNINTERRUPTED OR ERROR FREE. YOU AGREE THAT TOSHIBA, ITS AFFILIATES AND SUPPLIERS SHALL HAVE NO RESPONSIBILITY FOR DAMAGE TO OR LOSS OF ANY BUSINESS, PROFITS, PROGRAMS, DATA, NETWORK...

[Page 3](#) YOUR DATA IS ALTERED OR LOST DUE TO ANY TROUBLE, FAILURE OR MALFUNCTION OF THE HARD DISK DRIVE OR OTHER STORAGE DEVICES AND THE DATA CANNOT BE RECOVERED, TOSHIBA SHALL NOT BE LIABLE FOR ANY DAMAGE OR LOSS OF DATA, OR ANY OTHER DAMAGE RESULTING THEREFROM. WHEN COPYING OR...

[Page 4](#) Changes or modifications made to this equipment not expressly approved by Toshiba or parties authorized by Toshiba could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: ♦...

[Page 5](#) Bluetooth modules enable wireless networks over two or more (up to a total of seven) TOSHIBA portable devices. Please contact TOSHIBA computer product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or support.toshiba.com in the United States for more information.

[Page 6](#) If you should experience any such problem, immediately turn Bluetooth off your or Wireless LAN device. Please contact Toshiba computer product support on Web site <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> in Europe or support.toshiba.com in the United States for more information.

[Page 7](#) Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific...

[Page 8](#) You could damage the drive. You would also be exposed to laser light or other safety hazards, resulting in serious injury. Always contact an authorized Toshiba service provider, if

any repair or adjustment is required. Location of the Required Label (Sample shown below.

**Page 9** To comply with the Canadian RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. Pour être conforme aux exigences canadiennes en matière d'exposition aux fréquences radio, l'appareil et son antenne ne doivent pas être situés au même endroit qu'une autre antenne ou un autre émetteur ni fonctionner en même temps.

**Page 10** EU Declaration of Conformity TOSHIBA declares that this product conforms to the following Standards: Supplementary \*The product complies with the Information: requirements of the Low Voltage Directive 73/23/EEC, the EMC Directive 89/336/EEC and/or the R&TTE Directive 1999/5/EC, compatible with the RoHS...

**Page 11** United States. Although the initial emphasis is in Europe, Toshiba is already working with design engineers, suppliers, and other partners to determine appropriate worldwide product life cycle planning and end-of-life strategies for our products.

**Page 12** Bande de fréquence restreinte: seuls les canaux 1- 7 (2400 et 2454 MHz respectivement) doivent être utilisés endroits extérieur en France. Vous pouvez contacter l'Autorité de Régulation des Télécommunications (<http://www.art-telecom.fr>) pour la procédure à suivre. Italia: License required for indoor use. Use with outdoor installations not allowed.

**Page 13** listed above, the user must cease operating the Wireless LAN at that location and consult the local technical support staff responsible for the wireless network. ♦ The 5 GHz Turbo mode feature is not allowed for operation in any European Community country. ♦...

**Page 14** 2. If this equipment causes RF interference to other radio stations, promptly change the frequency being used, change the location of use, or turn off the source of emissions. 3. Contact TOSHIBA Direct PC if you have problems with interference caused by this product to Other Radio Stations. 2. Indication The indication shown below appears on this equipment.

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**Page 16** EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE WITH REGARD TO ANY OF THE FOREGOING. TOSHIBA ASSUMES NO LIABILITY FOR ANY DAMAGES INCURRED DIRECTLY OR INDIRECTLY FROM ANY TECHNICAL OR TYPOGRAPHICAL ERRORS OR OMISSIONS CONTAINED HEREIN OR FOR DISCREPANCIES BETWEEN THE PRODUCT AND THE MANUAL.

**Page 17** ® Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Toshiba is under license. The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

**Page 18** Computer Recycling Information As part of a commitment to people and the future, Toshiba promotes the efficient use of resources by working to achieve our zero-waste- to-landfill goal at all our production sites. In addition to our existing waste reduction and recycling policies, Toshiba is strongly committed to reducing electronic waste.

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## [Page 26: Introduction](#)

Introduction Thank you for purchasing your new Toshiba computer. With your Toshiba computer, your work and entertainment can accompany you wherever you go. ® Your computer is ENERGY STAR qualified. Toshiba is a partner in the Environmental Protection Agency's (EPA) ENERGY STAR Program and has designed this computer to meet the latest ENERGY STAR guidelines for energy efficiency.

[Page 27](#) Hazardous Substances in electrical and electronic equipment (RoHS), which restricts use of certain chemicals including, but not limited to, lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE. Toshiba requires its computer component suppliers to meet RoHS requirements and verifies its suppliers'...

## [Page 28: This Guide](#)

For more detailed information about the features and specifications on your particular model, please visit Toshiba's Web site at support.toshiba.com. While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice.

## [Page 29: Safety Icons](#)

Introduction Safety icons Safety icons This manual contains safety instructions that must be observed to avoid potential hazards that could result in personal injuries, damage to your equipment, or loss of data. These safety cautions have been classified according to the seriousness of the risk, and icons highlight these instructions as follows: Indicates an imminently hazardous situation which, if not...

## [Page 30: Your Computer's Features And Specifications](#)

To stay current on the most recent software and hardware options for your computer, and for other product information, be sure to regularly check the Toshiba Web site at support.toshiba.com. If you have a problem or need to contact Toshiba, see "If Something Goes Wrong" on page 123.

## [Page 31: Chapter 1: Getting Started](#)

Chapter 1 Getting Started This chapter provides tips for using your computer effectively, summarizes how to connect components, and explains what to do the first time you use your computer. Please read the safety instruction information on the Quick Start document (that shipped with your computer) carefully and make sure you fully understand the instructions before you attempt to use your computer in order to avoid potential hazards that could cause bodily injury, property damage, or...

## [Page 32: Keeping Yourself Comfortable](#)

Getting Started Selecting a place to work ♦ Equipment that generates a strong electromagnetic field, such as stereo speakers (other than speakers that are connected to the computer) or speakerphones. ♦ Rapid changes in temperature or humidity and sources of temperature change such as air conditioner vents or heaters.

## [Page 33: Using The Notebook With An External Keyboard, Mouse Or Monitor](#)

Getting Started Selecting a place to work ♦ When typing, keep your wrists straight and try not to rest your wrists on the notebook. Support your arms on your forearm area. The forearms can be supported by the chair arm supports or the desk surface. ♦...

## [Page 34: Typing Style](#)

Getting Started Selecting a place to work ♦ When using a notebook for long hours, it may be more comfortable to dock the notebook and use an external keyboard, mouse and monitor. ♦ The keyboard and mouse (or trackball) should be close to your elbow level.

## [Page 35: Taking Breaks And Varying Tasks](#)

Getting Started Selecting a place to work Taking breaks and varying tasks ♦ Change the way you work so that you are not stuck in the same posture for long periods of time. Some people find it comfortable to occasionally stand while using the notebook.

## [Page 36: Seeking Additional Help](#)

Getting Started Selecting a place to work Seeking additional help Follow the advice from your employer's company health and safety staff. Contact them if you need assistance making adjustment to your workstation or adjusting the lighting. Again, if you experience persistent or recurrent pain, ache, numbness, burning, or stiffness you should promptly see a qualified health care provider.

## [Page 37: Precautions](#)

Getting Started Selecting a place to work Precautions Your computer is designed to provide optimum safety and ease of use, and to withstand the rigors of travel. You should observe certain precautions to further reduce the risk of personal injury or damage to the computer. ♦...

[Page 38](#) Getting Started Selecting a place to work Consider using a hard computer insulating pad or similarly suitable hard insulating material when using a computer on your lap. Never place a heavy object on the computer and be careful not to drop a heavy object onto the computer. It could damage the computer or cause system failure.

## [Page 39: Important Information On Your Computer's Cooling Fan](#)

Getting Started Setting up your computer Important information on your computer's cooling fan Your computer may have a CPU cooling fan that cools the CPU by drawing outside air into the computer. Always make sure your computer and AC adaptor have adequate ventilation and are protected from overheating when the power is turned on or when an AC adaptor is connected to a power outlet (even if your computer is in...

## [Page 40: Adding Memory](#)

Always use the TOSHIBA AC adaptor that was provided with your computer, or use AC adaptors specified by TOSHIBA to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adaptor could cause fire or damage to the computer possibly resulting in serious injury.

[Page 41](#) Getting Started Connecting to a power source To connect AC power to the computer: Connect the power cord/cable to the AC adaptor. California Prop 65 Warning This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm.

## [Page 42: Charging The Main Battery](#)

Getting Started Charging the main battery Charging the main battery Before using the battery to power the computer, you must charge the battery. To charge the battery, leave the computer

plugged into an AC power source with the computer turned off until the battery light glows white.

### [Page 43: Using The Start Menu](#)

Getting Started Using the computer for the first time Using the Start menu Click the ) button in the lower-left corner of the Start Desktop or press the ) key to open the Start Windows menu. Here you can perform various commands, including basic tasks like turning off the power and advanced PC settings.

### [Page 44: Registering Your Computer With Toshiba](#)

Registering your computer with Toshiba Registering your computer with Toshiba Product registration is strongly recommended, and allows Toshiba to send you periodic updates, announcements, and special offers applicable to your Product. Product registration can be completed by visiting the Toshiba Web site at [register.toshiba.com](http://register.toshiba.com). Type in the requested information and complete the registration process.

### [Page 45: To Restart Your Computer](#)

Getting Started To Restart your computer Highlight while holding the key, and Shut down SHIFT then click the option in the pop-up window. Shut down The computer closes all open applications, shuts down the operating system, and then turns off. To perform a Full Shutdown: In the Search field, type SHUTDOWN /S /T 00...

### [Page 46: Adding Optional External Devices](#)

Adding optional external devices NOTE Before adding external devices, Toshiba recommends setting up your software. See "Initial setup" on page After starting your computer for the first time you may want ♦...

### [Page 47: Creating A Recovery Drive Using Toshiba Recovery Media Creator](#)

AC adaptor. It is strongly recommended that you create a recovery drive (USB flash) using TOSHIBA Recovery Media Creator. If the recovery files on your internal storage drive become corrupted or are deleted, you can restore your system from your recovery drive.

[Page 48](#) Search TOSHIBA Recovery Media Creator Click TOSHIBA Recovery Media Creator A message may appear asking you to allow this app to make changes to your PC. Click the button. All information stored on your USB flash drive will be erased during the process of creating the recovery drive.

[Page 49](#) Click when completed. Click to close the Format utility. Close For information on using the recovery drive you have created with the preceding steps, see "Restoring from recovery media created by TOSHIBA Recovery Media Creator" on page...

### [Page 50: Restoring From Recovery Media Created By Toshiba Recovery Media Creator](#)

For instructions on creating a recovery drive, "Creating a recovery drive using TOSHIBA Recovery Media Creator" on page NOTE...

### [Page 51: Recovering From The Internal Storage Drive](#)

Be sure to save your work to external media before executing the recovery. Click Troubleshoot (Reset your PC or set advance options) Click TOSHIBA Maintenance Utility Select and press TOSHIBA Recovery Wizard Next continue. A Warning screen appears, displaying the following statement "When the recovery is executed all data will..."

### [Page 52: Reset Your Pc](#)

Reset your PC The Reset process allows you to choose to keep your files or remove them, and then reinstall Windows. Toshiba does not guarantee successful data backup. Be sure to save your work to external media before executing the recovery. See "Backing up your work"...

[Page 53](#) Getting Started Recovering the Internal Storage Drive Select in the left pane of the Update & Recovery security window. Click the button. Get started (Sample Image) Choose an

option window In the Choose an option window, select one of the following options: ♦...

## [Page 54: Installing Drivers And Applications](#)

Getting Started Recovering the Internal Storage Drive Installing drivers and applications The TOSHIBA Application Installer allows you to reinstall the drivers and applications that were originally bundled with your computer. NOTE You must have an Internet connection to reinstall applications.

## [Page 55: Using The Toshiba Dual Pointing Device](#)

AccuPoint II AccuPoint II secondary primary button (Sample Illustration) TOSHIBA AccuPoint II and buttons —Moves the cursor and AccuPoint II pointing device selects items on the screen. To move the cursor, gently push the pointing device in the direction you want the cursor to move.

[Page 56](#) Getting Started Using the touchpad ♦ Open or activate an item on the screen ♦ Scroll through a document or information ♦ Zoom in for a close-up view ♦ Zoom out to see more information at once AccuPoint II primary and secondary control buttons\* Touchpad...

[Page 57](#) Getting Started Using the touchpad Do the following: Example: Select an item Move the pointer to the item you want to select. Do one of the following: ♦ Tap the touchpad once (Sample Illustration) ♦ Tap once to select Press and release the primary (left-hand) control button Open or...

## [Page 58: Adjusting Touchpad Settings](#)

Getting Started Using the touchpad Do the following: Example: Scroll Slide your finger along the horizontally touchpad in the direction you want to scroll. Repeat to scroll a longer distance. (Sample Illustration) Horizontal scrolling active area Zoom in/out To zoom in: ♦...

## [Page 59: Disabling Or Enabling The Touchpad](#)

Touchpad setting options vary by computer model. The touchpad settings are accessible through the Mouse Properties option of the Windows Control Panel. For more information, please visit support.toshiba.com. Disabling or enabling the touchpad The touchpad is enabled by default. To enable/disable the...

## [Page 60: Using External Display Devices](#)

Getting Started Using external display devices Using external display devices Your computer comes with a built-in display, however you can also connect the following types of external display devices to the video ports described below: NOTE To locate your HDMI Out port and RGB (monitor) port\*, please refer to your Quick Start document.

## [Page 61: Connecting An External Monitor Or Projector](#)

Getting Started Using external display devices Connecting an external monitor or projector You can easily attach an external monitor or projector to your computer if you need a larger screen. To do this: Read the directions that came with the monitor to see if you first need to install new software.

## [Page 62: Adjusting The Quality Of The External Display](#)

Getting Started Customizing your computer's settings ♦ Second screen only (Sample Image) Display options window Select the desired display setting. Press to activate your selection. ENTER NOTE Press the ( ) + keys to navigate through Windows the options without activating a selection. Press ENTER to activate a selection.

## [Page 63: Caring For Your Computer](#)

Getting Started Caring for your computer Refer to your operating system documentation or Help and Support for details. You may also wish to customize your power usage settings. For more information, see "Power Plans" on page 83. There are additional custom settings you can choose. See "Utilities"...

## [Page 64: Using A Security Lock](#)

You may want to secure your computer to a heavy object such as your desk. The easiest way to do this is to purchase an optional security lock cable. For more information on purchasing a

cable lock, visit [accessories.toshiba.com](http://accessories.toshiba.com). (Sample Illustration) Security lock cable To secure the computer: Wrap the cable through or around some part of a heavy object.

## [Page 65: Chapter 2: Learning The Basics](#)

Chapter 2 Learning the Basics This chapter gives some computing tips and provides important information about basic features. Computing tips ♦ Save your work frequently. Your work stays in the computer's temporary memory until you save it to the internal storage drive. If the network you are using goes down and you must restart your computer to reconnect, or your battery runs out of charge while you are working, you will lose all work since...

## [Page 66: Using The Keyboard](#)

Learning the Basics Using the keyboard ♦ Back up your files to external media on a regular basis. Label the backup copies clearly and store them in a safe place. It is easy to put off backing up because it takes time. However, if your internal storage drive suddenly fails, you will lose all the data on it unless you have a separate backup copy.

## [Page 67: Print Screen](#)

For example, the ) keys turn the touchpad ON/OFF. For more information, see "TOSHIBA Function Keys" on page 164. Special Windows keys Windows key Application key (Sample Illustration) Special Windows keys Your computer's keyboard has two keys that have special...

## [Page 68: Backlit Keyboard](#)

You can modify the time-out interval or change the keyboard backlight setting to Always On or Always Off. This TOSHIBA Function key enables/disables the keyboard backlight. Mouse properties Mouse properties allow you to change your pointing device or mouse settings.

## [Page 69: Saving Your Work](#)

Learning the Basics Saving your work Click the icon to display a list of all apps All apps (installed on your computer. This list appears in alphabetical order. Click the ) icon to return to the Back Most used list.

## [Page 70: Using The Optical Disc Drive](#)

Learning the Basics Using the optical disc drive To back up several files at one time, use the Microsoft Windows file recovery program preinstalled on the computer's internal storage drive. Also see "Backing up your data or your entire computer with the Windows operating system"...

## [Page 71: Optical Disc Drive Components](#)

Learning the Basics Using the optical disc drive Optical disc drive components The optical disc drive is located on the side of the computer. Your optical disc drive may look like this: Drive in-use indicator light Eject button Manual eject hole (Sample Illustration) Optical disc drive —Indicates when the drive is in Drive in-use indicator light...

## [Page 72: Playing Optical Media](#)

If you insert the disc incorrectly, it may jam the drive. If this happens, contact Toshiba support for assistance. Playing optical media If you insert an optical disc into the optical disc drive and the Auto-Run feature does not automatically start your disc, try launching the optical disc manually.

## [Page 73: Removing A Disc With The Computer On](#)

These problems are not due to any defect in your Toshiba computer or optical disc drive. Please refer to your computer's product specification for listing of specific format compatibilities.

## [Page 74: Removing A Disc With The Computer Off](#)

Gently press the tray in to close it. Toshiba's online resources Toshiba maintains a number of online sites to which you can connect. These sites provide information about Toshiba products, give help with technical questions and keep you up to date with future upgrades.

## [Page 75: Chapter 3: Mobile Computing](#)

Many of these energy-saving features have been preset by Toshiba. We recommend you leave these features active, allowing your computer to operate at its maximum energy efficiency, so



that you can use it for longer periods while traveling.

## [Page 76: Battery Notice](#)

The battery life rating is only achieved on the select models and configurations tested by Toshiba under the specific test settings at the time of publication and is not an estimate of a system's battery life under any conditions other than the...

## [Page 77: Power Management](#)

The battery needs to be charged before you can use it to power the computer. Always use the AC adaptor specified by Toshiba. You can order a Toshiba AC adaptor from Toshiba's Web site at [accessories.toshiba.com](http://accessories.toshiba.com). NOTE Battery charge time may vary depending on the applications, power management settings, and features used.

## [Page 78: Charging The Rtc Battery](#)

Mobile Computing Charging batteries TECHNICAL NOTE: The recharging of the battery may not occur when your computer is using all of the power provided by the AC adaptor to run applications, features, and devices. Your computer's Power Options utility can be used to select a power level setting that reduces the power required for system operation and will allow the battery to recharge.

## [Page 79: Monitoring Battery Power](#)

Mobile Computing Monitoring battery power NOTE Depending on your system, the RTC battery may only charge while the computer is turned on. To recharge the RTC battery, plug the computer into a live electrical outlet and leave the computer powered on for 24 hours.

## [Page 80: Determining Remaining Battery Power](#)

Mobile Computing Monitoring battery power NOTE If the AC power light flashes amber during charging, either a battery pack is malfunctioning, or it is not receiving correct input from the AC power supply. HINT: Be careful not to confuse the AC power light/ Battery light ( ) with the power button ( ) light.

## [Page 81: What To Do When The Main Battery Runs Low](#)

Mobile Computing Monitoring battery power With repeated discharges and recharges, the battery's capacity gradually decreases. A frequently used older battery does not power the computer for as long as a new battery, even when both are fully charged. TECHNICAL NOTE: The computer drains the battery faster at low temperatures.

## [Page 82: Conserving Battery Power](#)

Mobile Computing Monitoring battery power (Sample Image) Advanced settings tab of Power Options screen Configure the alarm settings to suit your needs. Click Conserving battery power How long a fully charged battery pack lasts when you are using the computer depends on a number of factors, such as...

## [Page 83: Power Plans](#)

Mobile Computing Monitoring battery power Microsoft has combined these options into preset Power Plans. Using one of these power plans lets you choose between maximum power savings and peak system performance. You may also set individual power-saving options to suit your own needs. The following sections describe how to choose a Power Plan and discuss each power-saving option.

## [Page 84: Using The Eco Power Plan](#)

Mobile Computing Using the eco power plan NOTE To edit a plan or to edit advanced settings, continue to the following steps. Click under the selected power Change plan settings option to choose the plan you wish to edit. This screen allows you to change basic settings. Click to access Change advanced power settings...

## [Page 85: Changing The Main Battery](#)

If you find that a new battery is needed, contact the location where you purchased the computer for more information on replacing the battery. Toshiba will not be responsible for any product damage, data loss, service, or part replacement made necessary by improper

installation of a new battery.

[Page 86](#) Mobile Computing Changing the main battery Slide the battery release lock to the unlocked position. (Sample Illustration) Unlocking the battery Slide and hold the battery release latch to release the battery. Pull the discharged battery out of the computer. (Sample Illustration) Removing the battery If the battery is leaking or its case is cracked, put on protective gloves to handle it, and discard it immediately.

### [Page 87: Inserting A Charged Battery](#)

Mobile Computing Changing the main battery Inserting a charged battery To insert a battery: Wipe the terminals of the charged battery with a clean cloth to ensure a good connection. Insert the charged battery into the slot until the latch clicks.

### [Page 88: Taking Care Of Your Battery](#)

Do not expose the computer to fire. The battery could explode. Do not turn on the computer's power again until an authorized Toshiba service provider has checked it for safety. Continued use could cause a fire or rupture possibly resulting in serious injury or computer failure including but not limited to the loss of data.

### [Page 89: Disposing Of Used Batteries](#)

In addition, Toshiba's recycling initiatives include recycling programs, events and consumer promotions. For details, please visit [toshiba.com/recycle](http://toshiba.com/recycle). Toshiba is dedicated to preserving the environment by sponsoring , a program of the Call2Recycle™ ...

### [Page 90: Traveling Tips](#)

❖ Always travel with the computer in a carrying case. Toshiba offers a choice of carrying cases for the computer. They all provide plenty of extra space for manuals, power cords, and compact discs. Contact your authorized Toshiba representative for more information or visit Toshiba's Web site at [accessories.toshiba.com](http://accessories.toshiba.com).

### [Page 91: Chapter 4: Exploring Your Computer's Features](#)

Chapter 4 Exploring Your Computer's Features In this chapter, you will explore some of the special features of your computer. Exploring the desktop You can use its features to start applications, find documents, set up system components, and perform most other computing tasks.

### [Page 92: Finding Your Way Around The Desktop](#)

Exploring Your Computer's Features Exploring the desktop Finding your way around the desktop Your computer's desktop includes several standard features: icons, Start button, taskbar, notification area, notifications, and background pattern. Notifications Icons Start button Search field Taskbar Notification area (Sample Image) Windows Desktop screen Icons An icon represents a folder, file, or program that can be quickly activated by double-clicking or touching the icon.

[Page 93](#) PC settings. NOTE You may also press the ) key to open the Windows Start menu. You can use the Start menu button to: ❖ Start apps ❖ Open documents ❖ Adjust system settings ❖ Find files ❖ Access Toshiba Utilities...

[Page 94](#) Exploring Your Computer's Features Exploring the desktop ❖ Use the Search function ❖ Shut down the computer For more information, see "Using the Start menu" on page 43 "Starting an app" on page Task view ) icon tiles the currently open windows Task view and desktops so that they are visible at one time and allows you to manage multiple desktops.

[Page 95](#) Exploring Your Computer's Features Exploring the desktop Taskbar Each time you open a program, an icon associated with that program appears on the taskbar. With some programs, an icon appears on the taskbar for each document or window you open. You can use these icons to quickly switch between the programs or windows.

### [Page 96: Windows Store](#)

Exploring Your Computer's Features Windows Store Windows Store Although many applications will be pre-installed or built-in to your computer, you will also have the ability to download many other applications with just a click of your mouse. Click the ) icon in the taskbar. Windows Store

In the Windows Store you can search for and browse thousands of apps, all grouped into easy to find categories.

### [Page 97: Connecting Your Computer To A Network](#)

Your computer should then be connected. NOTE To enable or disable wireless communication, use the ) keys. For more information see “TOSHIBA Function Keys” on page 164. NOTE When Airplane mode is OFF, the wireless indicator light will be lit.

### [Page 98: Exploring Audio Features](#)

Exploring Your Computer's Features Exploring audio features Exploring audio features NOTE You can only plug one external audio device (i.e. headphones or microphone) into the available headphone/microphone jack. You can use your computer to record sounds using the computer's internal microphone(s) (available on certain models) or an optional external microphone.

### [Page 99: Using External Speakers Or Headphones](#)

Exploring Your Computer's Features Exploring audio features When you have finished recording, click the Stop button. Recording Your recording file is created and automatically saved for you. Using external speakers or headphones Before putting on headphones to listen, turn the volume down.

### [Page 100: Using The Web Camera](#)

Exploring Your Computer's Features Using the Web Camera Using the Web Camera (Available on certain models.) Your computer may come with a built-in Web Camera. With this Web Camera you can do the following: ♦ Take pictures and record videos with your computer ♦...

### [Page 101: Inserting Memory Media](#)

Exploring Your Computer's Features Using the Memory card reader Inserting memory media NOTE To locate your Memory card reader, please refer to your Quick Start document. The following instructions apply to all types of supported media devices. Turn the media so that the contacts (metal areas) are face down.

### [Page 102: Using The Expansion Port](#)

Exploring Your Computer's Features Using the Expansion port Gently press the card inward to release it. The card pops out slightly. Grasp the card and pull it straight out. (Sample Illustration) Removing memory media Do not remove memory media while data is being written or read.

[Page 103](#) Port Replicator, your computer must be properly aligned with the Port Replicator. For more information, consult the user's manual that came with your Port Replicator, or visit support.toshiba.com. On some computer models, you can attach an extended life battery to the expansion port. To find expansion devices compatible with your computer model, please visit accessories.toshiba.com.

### [Page 104: Chapter 5: Utilities](#)

♦ eco Utility ♦ Supervisor password ♦ User password ♦ System Settings ♦ HDD Protection Utility ♦ TOSHIBA Recovery Media Creator ♦ Service Station ♦ TOSHIBA Application Installer ♦ PC Health Monitor ♦ Display Utility ♦ Fingerprint Authentication Utility...

### [Page 105: Eco Utility](#)

Utilities eco Utility eco Utility The eco Utility monitors your power savings from using the eco power plan by tracking real-time power consumption and accumulated savings over time. To access the eco Utility: In the field, type Search eco Utility Click eco Utility The eco Utility window appears.

### [Page 106: Password Utility](#)

TOSHIBA is not responsible for any losses that may occur to you, your organization or others as a result of the inability to access your computer.

[Page 107](#) Utilities Password Utility To set a supervisor password: In the field, type Search Password Utility Click Password Utility Click Supervisor Password (Sample Image) Supervisor Password tab Click Enter your password, and then enter it again to verify. Click NOTE Under

User Policy, this option may or may not ask for password verification.

### [Page 108: Using A User Password](#)

TOSHIBA is not responsible for any losses that may occur to you, your organization or others as a result of the inability to access your computer.

[Page 109](#) Utilities Password Utility To register a password for the power-on password functions: In the field, type Search Password Utility Click Password Utility Click User Password (Sample Image) User Password tab Click Enter your password, and then enter it again to verify. Click Click to save your password as a text file.

### [Page 110: Deleting A User Password](#)

Utilities Password Utility Deleting a user password To cancel the power-on password function: In the field, type Search Password Utility Click Password Utility A pop-up screen appears asking for a password. Enter your password, and then click Verify Click Delete An authority verification pop-up screen appears.

### [Page 111: System Settings](#)

Utilities System Settings System Settings System Settings is the TOSHIBA configuration management tool available through the Windows operating system. To access it: In the field, type Search System Settings Click System Settings The System Settings screen appears. (Sample Image) System Settings screen - General tab...

[Page 112](#) Utilities System Settings ♦ —Allows you to change the sequence in Boot Options which your computer searches the drives for the operating system ♦ —Allows you to configure boot priority Boot Priority settings. ♦ —Reduces the time needed for the Boot Speed BIOS to initialize, using either the Fast or Normal settings.

[Page 113](#) Utilities System Settings ♦ —Allows you to set conditions for Advanced Options various functions: ♦ —Allows you to enable/disable the Web Camera Web Camera. ♦ —Allows you to enable/disable SD Host Controller the SD Host Controller. ♦ ® —Allows you Intel Turbo Boost Technology 2.0 to enable/disable the Intel Turbo Boost Technology...

### [Page 114: Hdd Protection Utility](#)

Utilities HDD Protection Utility HDD Protection Utility (Available on certain models.) The HDD Protection Utility controls your computer's hard disk drive (HDD) protection feature, which parks the HDD whenever motion is detected on the computer. Using this utility, you can enable or disable hard disk drive (HDD) protection, and set the motion detector's sensitivity level for AC power and battery power operation.

### [Page 115: Toshiba Recovery Media Creator](#)

Utilities TOSHIBA Recovery Media Creator TOSHIBA Recovery Media Creator The TOSHIBA Recovery Media Creator utility enables you to create recovery media that can be used to return your system to its out-of-box state, if necessary. For detailed information on using the utility to create recovery media, see "Creating a recovery drive using TOSHIBA Recovery Media..."

### [Page 116: Toshiba Application Installer](#)

TOSHIBA Application Installer TOSHIBA Application Installer NOTE You must have an Internet connection to reinstall applications. The TOSHIBA Application Installer allows you to reinstall the drivers and applications that were originally bundled with your computer. To reinstall drivers and applications: In the...

### [Page 117: Pc Health Monitor](#)

This information is used to identify and provide a notification of system conditions that may affect the performance of your TOSHIBA device. It may also be used to help diagnose problems should the device require service by TOSHIBA or TOSHIBA's authorized service providers. Additionally, TOSHIBA may use this information for quality assurance analysis.

### [Page 118: Display Utility](#)

Utilities Display Utility Display Utility The Display Utility allows you to adjust your display settings. To make changes: In the field, type Search Display Utility Click Display Utility The

Display Utility window appears. Click the option you wish to change and follow the on- screen instructions.

### [Page 119: Fingerprint Authentication Utility](#)

TOSHIBA does not guarantee that the fingerprint utility will accurately screen out unauthorized users at all times. TOSHIBA is not liable for any failure or damage that might arise out of the use of the fingerprint software or utility.

### [Page 120: Fingerprint Logon](#)

Utilities Fingerprint Authentication Utility Fingerprint Logon The fingerprint utility enables logon to your computer using fingerprints. During user enrollment, fingerprint samples are saved and associated with the user's Windows user account. When the user attempts to log on again, the user's fingerprint is read and compared with the user's enrolled fingerprints;...

[Page 121](#) Utilities Fingerprint Authentication Utility ♦ Remove static electricity from your fingers by touching any metal surface. Static electricity is a common cause of reader failures, especially during dry seasons such as winter. ♦ Clean the reader with a lint-free cloth. Do not use detergent to clean the reader.

### [Page 122: Fingerprint Reader Limitations](#)

TOSHIBA does not guarantee that the fingerprint reader will recognize the enrolled user or accurately screen out unauthorized users at all times. TOSHIBA is not liable for any failure or damage that might arise out of the use of this...

### [Page 123: Chapter 6: If Something Goes Wrong](#)

This chapter aims to help you solve many problems by yourself. It covers the problems you are most likely to encounter. If all else fails, contact Toshiba. You will find information on Toshiba's support services at the end of this chapter. Problems that are easy to fix Your program or application stops responding.

### [Page 124: Problems When You Turn On The Computer](#)

If Something Goes Wrong Problems when you turn on the computer Select the program or application you want to close, and then click in the lower right corner. End Task Closing the failed program should allow you to continue working. If it does not, continue with the next step. Close the remaining programs one by one by selecting the program name, then select End Task...

[Page 125](#) "trickle-charge to the battery. Once the battery has been tricklecharged, it may begin working correctly again. If the trickle-charging does not prove effective, you can connect to Support Online by going to Toshiba support at support.toshiba.com.

### [Page 126: The Windows Operating System Is Not Working](#)

If the specifications do match, locate and use the AC adaptor that shipped with your computer. If the specifications match, contact Toshiba. See "Contacting Toshiba" on page 161. The Windows operating system is not working...

[Page 127](#) If Something Goes Wrong The Windows operating system is not working If Windows fails to start properly twice, the Windows Boot menu will launch. To enter the Advanced Startup options manually: In the field, type Search Recovery Options Click Recovery Options Scroll down to view the option.

### [Page 128: Internet Problems](#)

If Something Goes Wrong The Windows operating system is not working Startup Settings In previous Operating Systems the majority of the options found on this menu were available by pressing the ( ) key during the Windows boot process: ♦ Enable low resolution video mode Restarts Windows using your current video driver at low resolution.

### [Page 129: Power And The Batteries](#)

If Something Goes Wrong Power and the batteries My browser cannot find the URL address I typed in. Make sure you separated the domain names of the address with the forward slash (/). Check the spelling of each name and the syntax of the address carefully. A single incorrect

letter or missed character will make it impossible for your browser to locate the site.

### [Page 130: Keyboard Help](#)

This is normal for all batteries. To purchase a new battery pack, see your accessories information included with your computer, or visit the Toshiba Web site at [accessories.toshiba.com](http://accessories.toshiba.com). Refer to this site often to stay current on the most recent software and hardware options for your computer, and for other product information.

### [Page 131: Uninstall The Keyboard Driver](#)

If Something Goes Wrong Keyboard help If your computer has a user-removable battery, remove the battery and hold down the power button for approximately 10 seconds. Reconnect the battery (if you removed it) and the power cord/cable. Turn On the computer, and try the keyboard again. Uninstall the keyboard driver You can Uninstall the keyboard driver to allow Windows to automatically reinstall the driver.

### [Page 132: Download The Latest Keyboard Driver](#)

Enter your computer's serial number. Filter your search by to find and Keyboard driver download the driver for your Toshiba Function Key computer. Install the driver. Toshiba Function Key Restart your computer, see "To Restart your computer" on page...

### [Page 133: Touchpad Help](#)

If Something Goes Wrong Touchpad help Touchpad help If you are having problems with your touchpad or your touchpad is not working correctly. The information below will help guide you through checking some of the most common causes of touchpad problems. Disable then enable the touchpad Press the ) keys to enable/disable the touchpad.

### [Page 134: Uninstall The Touchpad Driver](#)

If Something Goes Wrong Touchpad help Uninstall the touchpad driver You can Uninstall the touchpad driver to allow Windows to automatically reinstall the driver. In the field, type Search Device Manager Click the application. Device Manager In the "Device Manager" select Mice and other pointing devices Right-click the device with...

### [Page 135: Download The Latest Touchpad Driver](#)

If Something Goes Wrong Touchpad help Download the latest touchpad driver In your Web browser go to <http://support.toshiba.com/drivers>. Enter your computer's serial number. Filter your search by to find and Touchpad driver download the touchpad driver for your computer. NOTE...

### [Page 136: Display Problems](#)

If Something Goes Wrong Display problems NOTE Some computers may have an tab (or Advanced similar) to change the touchpad properties. You can now change the configuration settings of your touchpad. Display problems Here are some typical display problems and their solutions: The screen is blank.

### [Page 137: Disk Or Storage Drive Problems](#)

If Something Goes Wrong Disk or storage drive problems You can also change the settings for individual components separately by selecting each item. For more information, see the Windows online Help. A message displays saying that there is a problem with your display settings and that the adapter type is incorrect or the current settings do not work with your hardware.

[Page 138](#) If Something Goes Wrong Disk or storage drive problems Right-click the drive you wish to check. (Sample Image) Clicking on or touching the drive In the pop-up menu, click Properties The drive's Properties box appears. Click the tab. Tools Click the button.

### [Page 139: Optical Disc Drive Problems](#)

If Something Goes Wrong Optical disc drive problems Your data files are damaged or corrupted. Refer to your software documentation for file recovery procedures. Many software packages automatically create backup files. You may also be able to recover lost data using utility software.

## [Page 140: Web Camera Help](#)

For more information regarding supported optical media formats, refer to the complete detail specifications for your computer at [support.toshiba.com](http://support.toshiba.com). If the problem is with an optical data disc, refer to the software's documentation and check that the hardware configuration meets the program's needs.

## [Page 141: Uninstall The Web Camera Driver](#)

If Something Goes Wrong Web Camera help Uninstall the Web Camera driver You can Uninstall the Web Camera driver to allow Windows to automatically reinstall the driver. In the field, type Search Device Manager Click the application. Device Manager Double-click Imaging devices Right-click and select...

## [Page 142: Check For Problems With Third Party Applications](#)

If Something Goes Wrong Sound help Click Create a restore point Select the button on the System Restore System tab. protection Select Recommended Restore Choose a to restore the system to a point different restore point at which your Web Camera was working properly. Check for problems with third party applications Uninstall all other applications that use the Web Camera except the pre-installed camera application.

## [Page 143: Check And Set Default Speakers](#)

If Something Goes Wrong Sound help Click in the troubleshooter and follow the on- Next screen instructions. Check and set default speakers In the field, type Search Change system sounds Click Change system sounds Click the tab. Playback Select a playback device. Click the button.

## [Page 144: Uninstall The Audio Driver](#)

❖ Take note of the audio driver name(s) in the event you may need to manually download the audio driver from [support.toshiba.com/drivers](http://support.toshiba.com/drivers). (Sample Image) Audio driver - uninstall window After the driver uninstalls, restart your computer, see "To Restart your computer"...

## [Page 145: Download The Latest Sound Driver](#)

The various Audio drivers will be listed under "Sound, video and game controllers." Take note of the Audio driver name(s) in order to locate the proper driver on the Toshiba support Web site, "Drivers & Software" page. Install the desired Audio driver.

## [Page 146: Printer Problems](#)

If Something Goes Wrong Printer problems Printer problems This section lists some of the most common printer problems. The printer will not print. Check that the printer is connected to a working power outlet, turned on and ready (on line). Check that the printer has plenty of paper.

## [Page 147: Wireless Networking Problems](#)

Launch the Device Manager and carefully note any error messages these will be very helpful if you should confer with a support technician at a later time. NOTE To enable or disable wireless communication, use the For more information see "TOSHIBA keys. Function Keys" on page 164.

## [Page 148: Connecting To The Internet](#)

If Something Goes Wrong Connecting to the Internet ❖ Use IPCONFIG to verify that the computer has a useful IP address one other than the private address of 169.254.xxx.xxx assigned by Windows. In the field, type Search Click Command Prompt Enter , and then press IPCONFIG/ALL...

## [Page 149: Using A Wireless Connection](#)

If Something Goes Wrong Connecting to the Internet Using a wireless connection After you have an ISP and you've connected your hardware by following the ISP's instructions, you might already be connected to the Internet. To find out, open your Web browser and try visiting a Web site.

## [Page 150: Troubleshooting An Internet Connection - Verify Hardware](#)

If Something Goes Wrong Connecting to the Internet Troubleshooting an Internet connection - Verify hardware Before troubleshooting any problem you are having with connecting to the Internet, verify the following: Make sure all cords/cables are connected, (e.g. modem connection



from the wall and connection cables to the router).

### [Page 151: Troubleshooting An Internet Connection - How To Verify Tcp/Ip](#)

If Something Goes Wrong Connecting to the Internet NOTE select the "Delete the driver software for this device" box. (Sample Image) Device Manager - Network adapter uninstall After the driver uninstalls, open the menu in Action Device Manager. Select Scan for hardware changes After the driver uninstalls, restart your computer, see "To Restart your computer"...

[Page 152](#) If Something Goes Wrong Connecting to the Internet If the network adapter and TCP/IP are functioning correctly, you should receive a response that looks similar to the following: (Sample Image) Command Prompt window If you receive an error message at this point, TCP/IP may not be properly installed.

### [Page 153: Downloading Drivers And Updates](#)

Downloading drivers and updates Using Toshiba Service Station The easiest way to update your computer with the latest components and drivers is to use Toshiba Service Station. To access TOSHIBA Service Station: In the field, type...

### [Page 154: How To Determine The Correct Drivers To Download](#)

(or connected to) your computer. On the "Drivers & Software" area of the Toshiba support Web site, there may be several drivers listed for the same device.

### [Page 155: Dvd Operating Problems](#)

"Downloading drivers and updates" on page 153 instructions on using Device Manager to view the optical disc drive properties. Check the Toshiba Web site for new information on optical disc drives and their operation. A blank screen appears while watching a DVD-ROM movie or title.

### [Page 156: Develop Good Computing Habits](#)

If Something Goes Wrong Develop good computing habits The screen saver runs while you are watching a movie or title. If the screen saver is enabled, it runs on top of any movie or title you are watching. To disable the screen saver: In the field, type Search...

### [Page 157: Data And System Configuration Backup In The Windows Operating System](#)

If Something Goes Wrong Develop good computing habits Read the documentation. It is very difficult to provide a fail-safe set of steps you can follow every time you experience a problem with the computer. Your ability to solve problems will improve as you learn about how the computer and its software work together.

[Page 158](#) If Something Goes Wrong Develop good computing habits Under , select Restore settings Turn on System Protection Click Apply Click In the input field, enter a name that is descriptive enough to be easily understood in the future, such as "Before installing Brand X Accounting app."...

[Page 159](#) If Something Goes Wrong Develop good computing habits Backing up your data or your entire computer with the Windows operating system The most valuable component of your computer system is the data you create and store on its internal storage drive. Since problems with either hardware or software can make the data inaccessible or even destroy it, the next most valuable component of your computer system may be a...

[Page 160](#) If Something Goes Wrong Develop good computing habits restore the Windows operating system to the state it was in prior to the installation, undoing any changes that the installation process introduced. ♦ Back up your critical data (see "Backing up your data or your entire computer with the Windows operating system"...

### [Page 161: Additional Help](#)

Your dealer is your best source for current information. Technical support is available online at Toshiba's support Web site at support.toshiba.com. At this Web site you will find answers for many commonly asked technical questions in addition to downloadable software drivers, BIOS



updates, and many other downloads.

### [Page 162: Other Toshiba Internet Web Sites](#)

20041, Agrate Brianza Japan Milano, Italy Latin America and Caribbean Mexico Toshiba America Information Toshiba de México S.A. de C.V. Systems, Inc. Sierra Candela No.111, 6to. Piso 9740 Irvine Boulevard Col. Lomas de Chapultepec. Irvine, California 92618 CP 11000 Mexico, DF.

[Page 163](#) Spain United States The Rest of Europe Toshiba America Information Toshiba Europe (I.E.) GmbH Systems, Inc. Hammfelddamm 8 9740 Irvine Boulevard D-4-1460 Neuss Irvine, California 92618 Germany United States For more information on additional Toshiba worldwide locations, please visit: [www.toshiba.co.jp/index.htm](http://www.toshiba.co.jp/index.htm).

### [Page 164: Appendix A: Toshiba Function Keys](#)

Appendix A TOSHIBA Function Keys TOSHIBA Function keys provide a quick way to modify selected system functions and to launch applications. Functions TOSHIBA Function keys are used to set or modify the following system functions: ♦ Mute ♦ Lock (Instant security) ♦...

### [Page 165: Volume Mute](#)

Power Options window (see “Power Plans” on page 83). This TOSHIBA function key also allows you to enable notifications for power plans. The notifications are disabled by default. Sleep mode This TOSHIBA Function key places the computer into Sleep mode.

### [Page 166: Output \(Display Switch\)](#)

TOSHIBA Function Keys Functions Output (Display switch) This TOSHIBA Function key cycles through the display options and highlights the available options. Press to activate a selection. ENTER ♦ PC screen only ♦ Duplicate ♦ Extend ♦ Second screen only (Sample Image) Display mode options window...

### [Page 167: Display Brightness](#)

TOSHIBA Function Keys Functions Display brightness This TOSHIBA Function key decreases the screen brightness. This TOSHIBA Function key increases the screen brightness. Disabling or enabling wireless devices This TOSHIBA Function key enables/disables the Wi-Fi antenna in your computer. NOTE Allow about 5 seconds to switch between modes.

### [Page 168: Keyboard Backlight](#)

(While the keyboard is in use, the keyboard backlight is On.) Zoom In/Out This TOSHIBA Function key allows you to zoom out. This TOSHIBA Function key allows you to zoom in. Volume control This TOSHIBA Function key decreases the speaker volume.

### [Page 169: Appendix B: Power Cord/Cable Connectors](#)

Appendix B Power Cord/Cable Connectors Your computer ships with the correct power supply for the country of purchase. This appendix shows the shapes of the typical AC power cord/cable connectors for various parts of the world. Canada UL approved CSA approved United Kingdom Europe VDA approved...

### [Page 170: Glossary](#)

Glossary TECHNICAL NOTE: Some features defined in this glossary may not be available on your computer. Acronyms The following acronyms may appear in this User's Guide. Alternating Current Basic Input/Output System BIOS Blu-ray Disc Read-Only Memory BD-ROM bits per second Compact Disc Compact Disc Read-Only Memory CD-ROM...

[Page 171](#) Glossary Dots Per Inch Digital Versatile (or Video) Disc Digital Versatile (or Video) Disc Read-Only DVD-ROM Memory File Allocation Table Federal Communications Commission gigabyte gigabytes per second GBps Hard Disk Drive High-Definition Multimedia Interface HDMI High-Definition Multimedia Interface Consumer HDMI CEC Electronics Control Hypertext Markup Language HTML...

[Page 172](#) Glossary Thin Film Transistor Universal Serial Bus Uniform Resource Locator Wide Area Network World Wide Web Terms The following terms may appear in this User's Guide. —A liquid crystal display (LCD) made active-matrix display from an array of liquid crystal cells using

active-matrix technology.

[Page 173](#) Glossary —The speed at which a communication device, such as a printer or modem, transmits information. Baud rate is the number of signal changes per second (not necessarily bits per second the same as bits per second). See also —Offering more storage capacity than Blu-ray Disc (BD) DVDs, the format was developed to allow for more data...

[Page 174](#) Glossary —A section of very fast memory in which frequently used cache information is duplicated for quick access. Accessing data from cache is faster than accessing it from the computer's CPU cache, L1 cache, L2 cache main memory. See also CD-ROM —An individual compact disc.

[Page 175](#) Glossary —A section of very fast memory residing between CPU cache the CPU and the computer's main memory that temporarily stores data and instructions the CPU will need to execute cache, L1 cache, L2 commands and programs. See also cache —An on-screen symbol (usually a flashing vertical line) cursor that indicates the position where characters will appear...

[Page 176](#) Glossary —A round, flat piece of material that can be magnetically disk influenced to hold information in digital form, and used in the production of magnetic disks, such as hard disks. Compare disc hard disk . See also —The device that reads and writes information and disk drive programs on external media or hard disk.

[Page 177](#) Glossary file extension —See extension device —See external device —A collection of related information, saved on disk with a file unique name. A file may be a program, information used by a document program, or a document. See also —The section of a storage drive File Allocation Table (FAT) that keeps track of the location of stored files.

[Page 178](#) Glossary —The physical components of a computer system. hardware software Compare —An HDMI (High-Definition Multimedia Interface) interface used to transmit high quality audio and video signal via a single cable in digital format, providing better picture quality than analog signal. —...

[Page 179](#) Glossary —A solid state lamp (SSL) that LED (Light Emitting Diode) uses light-emitting diodes (LEDs) as the source of light, which offers long life and high efficiency output. Multiple diodes are used together, since the light created by individual light-emitting diodes is small compared to incandescent and compact fluorescent lamps.

[Page 180](#) Glossary —A collection of computers and associated devices network that are connected by communications facilities. A network allows you to share data and peripheral devices, such as printers, with other users and to exchange electronic mail. —A method of refreshing a computer screen, non-interlaced in which each pixel of every line is refreshed as the electron beam scans across and down the screen.

[Page 181](#) Glossary —An icon (usually an arrow) that moves on the screen pointer when you slide your finger across the touchpad or move a mouse. Used to point to and select/activate on-screen items, such as icons, menu items, and buttons. The shape and purpose of the pointer varies depending on the program you are using and what you are doing.

[Page 182](#) Glossary —A monitor that RGB (Red, Green, Blue) monitor reproduces all colors by mixing red, green, and blue light in various combinations. —An eight-wire connector used to connect a RJ45 connector computer to a network. —Non-volatile memory that can ROM (Read-Only Memory) Non-volatile be read but not written to.

[Page 183](#) Glossary active-matrix display —See TFT display —To activate items displayed on the screen, such as Touch apps, setting icons, and on-screen buttons by touching them with your finger. —A list of square or rectangular icons on the Start Tile/Tiles menu representing applications that can be accessed by selecting them.

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