



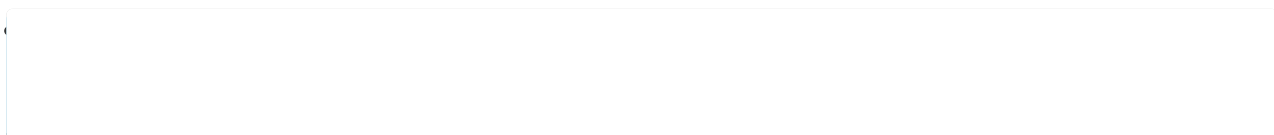
# Toshiba WT12PE-A Series User Manual



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# **TOSHIBA** User's Manual

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**TOSHIBA WT12PE-A**

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[Tablet Toshiba dynaPad WT12PE-A Series Quick Start Manual](#)

(9 pages)

[Notebook Toshiba Tecra Z50-C Series User Manual](#)

(191 pages)

[Notebook Toshiba Qosmio X500 User Manual](#)

(204 pages)

## Summary of Contents for Toshiba WT12PE-A Series

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### [Page 4: Chapter 1 Toshiba Legal, Regulatory, And Safety](#)

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### [Page 5: Regulatory Information](#)

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[Page 6](#) 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 Micro-USB (USB 2.0) port, HDMI Micro port. Changes or modifications made to this equipment, not expressly approved by TOSHIBA or parties authorized by TOSHIBA could void the user's...

[Page 7](#) EMC (Electromagnetic Compatibility) and safety standards. However, TOSHIBA cannot guarantee that this product still observes these EMC standards if options or cables not produced by TOSHIBA are connected or implemented. In this case the persons who have connected/implemented those options/cables have to provide assurance that the system (PC plus options/cables) still fulfils the required standards.

[Page 8](#) Note that Canadian Department of Communications (DOC) regulations provide, that changes or modifications not expressly approved by TOSHIBA Corporation could void your authority to operate this equipment. This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

[Page 9](#) Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007, with phased deadlines to 2018. Toshiba will meet all REACH requirements and is committed to provide our customers with information about the presence in our articles of

substances included on the candidate list according to REACH regulation.

[Page 10](#) Toshiba meets all requirements of Turkish regulation 28300 "Restriction of the use of certain hazardous substances in electrical and electronic equipment".

### [Page 11: Video Standard Notice](#)

Video Standard Notice THIS PRODUCT IS LICENSED UNDER THE AVC, THE VC-1 AND MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER FOR (I) ENCODING VIDEO IN COMPLIANCE WITH THE ABOVE STANDARDS ("VIDEO") AND/OR (II) DECODING AVC, VC-1 AND MPEG-4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NONCOMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE SUCH...

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### [Page 13: Freetype License Issues](#)

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[Page 16](#) ----- Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission. We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

### [Page 17: Energy Star® Program](#)

Disposing of the computer and the computer's battery The computer's battery pack is not user-accessible. Contact an authorized TOSHIBA service provider for details regarding how to dispose of the computer and the battery pack. General Precautions TOSHIBA computers are designed to optimize safety, minimize strain, and withstand the rigors of portability.

[Page 18](#) observed to further reduce the risk of personal injury or damage to the computer. Be certain to read the following general precautions and to note the cautions included in the text of the manual. Provide adequate ventilation Always make sure that 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 Sleep Mode).

[Page 19](#) Heat injury Avoid prolonged physical contact with the computer. If the computer is used for long periods, its surface can become very warm. While the temperature will not feel hot to the touch, if you maintain physical contact with the computer for a long time, for example if you rest the computer on your lap or if you keep your hands on the palm rest, your skin might suffer a low-heat injury.

### [Page 20: Safety Icons](#)

Make sure all disk/disc activity has ended before moving the computer. Disconnect the AC adaptor and all peripherals before moving the computer. Do not pick up the computer by its



display panel when using in laptop mode. Before carrying your computer, shut it down, disconnect the AC adaptor and allow it to cool down.

[Page 21](#) A caution informs you that improper use of equipment or failure to follow instructions might cause data loss, equipment damage, or might result in minor or moderate injury. Please read. A note is a hint or advice that helps you make best use of your equipment.

## [Page 22: Chapter 2 Getting Started](#)

This chapter provides an equipment checklist, and basic information to start using your computer. If you use an operating system that was not pre-installed by TOSHIBA, some of the features described in this manual might not function properly. Equipment checklist Carefully unpack your computer, taking care to save the box and packaging materials for future use.

## [Page 23: Conventions](#)

TOSHIBA Keyboard Dock, your computer can be easily converted from a tablet PC to a laptop PC. Throughout this manual, operating your computer as a laptop PC and a tablet PC is called "laptop mode" and "tablet mode" respectively.

[Page 24](#) Connecting/Removing TOSHIBA Keyboard Dock TOSHIBA Keyboard Dock provided with some models can turn your tablet into a laptop for extensibility including a physical keyboard. Hold both sides of the tablet computer, and attach the tablet computer to the keyboard dock.

[Page 25](#) Do not lift the computer by the palm rest on the keyboard dock when using in laptop mode. To disconnect and remove the computer from the keyboard dock, do the following: Failure to follow the procedures below may result in data loss. Disconnect and remove all peripheral devices and cables connected to the computer.

[Page 26](#) Always use the TOSHIBA AC adaptor that was included 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 might cause fire or damage to the computer possibly resulting in serious injury.

[Page 27](#) Plug the Micro-USB connector of the AC adaptor into the Micro-USB port on your tablet computer. Figure 2-3 Plugging the Micro-USB cable into tablet computer 3Pin 2Pin 1. Micro-USB port 2. Micro-USB connector Product appearance depends on the model you purchased. Either a 2-pin or 3-pin adaptor/cord is included with the computer depending on the model.

## [Page 28: Getting To Know Windows](#)

Do not touch the display screen while turning on the computer. Low battery icon ( ) appears if the remaining battery power is less than 2%. In this instance, connect the AC adaptor to the computer. Initial setup The Windows Startup Screen is the first screen displayed when you turn on the power.

[Page 29](#) To do this, click the Task view icon , and then click New desktop. Open the apps you want to use on that desktop. To switch between desktops, click Task view again. Search Search on the Windows taskbar allows you to find apps, files, settings, and more on the computer.

## [Page 30: Turning Off The Power](#)

Tablet mode Tablet mode enables touch-optimized working environment without keyboard and mouse. After switching to tablet mode, Start menu and apps are running in full screen, giving you more space to work in. To use two apps side-by-side, drag an app to one side. You will see any open apps that can snap next to it.

[Page 31](#) Note that keyboard keys can only be used if the Wake-up on Keyboard option is enabled within the TOSHIBA System Settings. If the computer enters Sleep Mode while a network application is active, the application might not be restored when the computer is next turned on and the system returns from Sleep Mode.

[Page 32](#) To prevent the computer from automatically entering Sleep Mode, disable Sleep Mode within the Power Options. To use the Hybrid Sleep function, configure it in the Power Options. Benefits of Sleep Mode The Sleep Mode feature provides the following benefits:

Restores the previous working environment more rapidly than the Hibernation Mode feature.

[Page 33](#) Data will be lost if you disconnect the AC adaptor before the save is completed. To prevent data loss, do not switch to Hibernation Mode while transferring data to external media, such as USB devices, memory media, or other external memory devices. Benefits of Hibernation Mode The Hibernation Mode feature provides the following benefits: Saves data to the internal storage when the computer automatically...

### [Page 34: System Recovery](#)

Media Restoring the pre-installed software from the Internal Storage If you choose TOSHIBA Maintenance Utility to erase the internal storage, all data including the operating system and recovery image will be deleted. In that case, you cannot create recovery media or restore the pre-installed software from the recovery image.

[Page 35](#) Make sure that the AC adaptor is connected during the restoring process. Operate the computer at full power. Make sure to dock the computer to TOSHIBA Keyboard Dock before restoring the operating system (only for model with TOSHIBA Keyboard Dock).

[Page 36](#) "Recovery Media", the "Recovery Media" cannot be created. However, if you have already created a "Recovery Media", you can use it to restore the recovery image. If you have not created "Recovery Media", contact TOSHIBA support for assistance. Restoring the pre-installed software from the Internal...

[Page 37](#) You can also perform the restoration through PC settings in the operating system: Go to Settings and click Update & security -> Recovery. Click Get started under Reset this PC. Follow the on-screen instructions to finish the recovery. User's Manual 2-16...

### [Page 38: Chapter 3 The Grand Tour](#)

Chapter 3 The Grand Tour This chapter identifies the various components of the computer. It is recommended that you become familiar with each before you operate the computer. Legal Footnote (Non-applicable Icons) For more information regarding Non-applicable Icons, refer to the Legal Footnotes section.

[Page 39](#) Figure 3-1 Tablet computer 1. Web Camera (back) 10. Stereo speakers 2. Docking interface 11. Micro SIM card slot\* 3. Battery indicator 12. Power button 4. Micro-USB port (Dual-role) 13. Volume up/down button 5. HDMI Micro port 14. Microphones 6. Memory media slot 15.

[Page 40](#) Micro-USB port (Dual- One Micro-USB port, which complies to the USB role) 2.0 standard, is provided on the tablet computer. To connect a USB device, you must purchase a Micro B plug - Standard A receptacle cable. The tablet computer also acts as a client via this port.

[Page 41](#) Display screen 30.5 cm (12") LCD screen, configured with the following resolution: WUXGA+, 1920 horizontal x 1280 vertical pixels Be aware that, when the computer is operating on the AC adaptor, the image displayed on the internal screen is somewhat brighter than when it operates on battery power.

### [Page 42: Toshiba Keyboard Dock](#)

To connect a USB device, you must purchase a Micro B plug - Standard A receptacle cable. Pen hole This hole is used for inserting the pen clip. TOSHIBA Keyboard Dock The following figure shows each important component of the keyboard dock. Figure 3-2 The keyboard dock 1.

### [Page 43: Internal Hardware Components](#)

The tablet computer includes a battery pack inside. Do not attempt to dismount or replace the battery pack by yourself. Contact an authorized TOSHIBA service provider, if necessary. The rechargeable lithium polymer battery pack provides power to the computer when the AC adaptor is not connected.

[Page 44](#) Internal storage The capacity of the internal storage varies depending on the model. Note that part of the internal storage overall capacity is reserved as administration space. Legal Footnote (Internal Storage Capacity) For more information regarding Internal Storage Capacity, refer to the Legal Footnotes section.

## [Page 45: Chapter 4 Operating Basics](#)

Chapter 4 Operating Basics This chapter describes the basic operations of your computer, and highlights the precautions that must be taken when using it. Operating in tablet mode Observe the following instructions when you operate the computer in tablet mode. Figure 4-1 Operating the computer in tablet mode Remove all external peripheral devices and their connection cables from the computer before carrying.

[Page 46](#) The display screen of some models is a touch sensitive, digitizer screen, and works with a stylus pen. However, the outer edges of the screen might be less sensitive. Keep the Stylus Pen or the Reserve Pen inside the display area when you use it near the edges of the display screen.

[Page 47](#) Avoid having direct contact with the other edges of the hand held device while the wireless device is turned on and transmitting. Only factories installed wireless transmitter can be used with this hand held device to satisfy RF exposure compliance. Some drivers/utilities might not perform install and uninstall operation when the screen orientation is changed to landscape mode.

## [Page 48: Using The Touch Screen](#)

Using the Touch Screen You can use your finger to manipulate icons, buttons, menu items, the onscreen keyboard, and other items on the touch screen. Simply tap your finger once on the touch screen to activate an item, such as an app. Press and hold Press your finger down and leave it there for a few seconds.

## [Page 49: Using The Touch Pad](#)

Do not use a protecting sheet for the touch screen as it might decrease its sensitivity to gestures. Do not touch the screen with gloves, wet hands, or the tip of your fingernails as it might decrease the sensitivity. The touch screen might not work correctly if part of the surface is slightly wet, or covered with an object.

[Page 50](#) Figure 4-5 Stylus Pen 1. Pen cap 3. Pen button 2. Pen point 4. Pen clip Pen cap Provides protection to the pen tip. Pen point Provides the same function as left clicking the mouse once. Pen button Press and hold this button and touch the tip of the pen on an object.

[Page 51](#) It is recommended that you keep another pen set as a spare. You can buy replacement pen sets from your TOSHIBA authorized dealer. TOSHIBA is not liable for any problems arising on the products due to the use of the pen in an environment where the above conditions are not satisfied or because of its use by unspecified number of users.

[Page 52](#) Figure 4-7 Installing the battery Inserting/Removing the Stylus Pen The pen clip allows you to insert the pen into the pen hole on the tablet computer when you do not need to use it or you want to take the pen with your tablet computer.

[Page 53](#) Figure 4-9 Removing the Stylus Pen Using the tether string You can use the provided tether string to hang the Stylus Pen on your tablet computer. Hang the tether string to your tablet computer first. Figure 4-10 Using the tether string Hang the other end to your Stylus Pen.

[Page 54](#) Pen actions You can use the Stylus Pen or the Reserve Pen to enter data, start programs, move objects and execute other actions. Single tap Lightly tap the tip of the pen on an object and lift it immediately to execute an action.

## [Page 55: The Keyboard](#)

When the pen tip breaks replace it with one of the refills delivered with the Stylus Pen. When these refills have run out, you can purchase a new pen set from a TOSHIBA authorized dealer. A short and worn pen point is difficult to pull out. Replace the pen point with a refill before it becomes too short to remove.

[Page 56](#) You can configure the function keys' mode as "Special function mode" or "Standard F1-F12 mode" by clicking System Settings -> Function Key under TOSHIBA group in All apps. "Special function mode" allows you to use special functions without pressing the FN key.

## [Page 57: Battery](#)

Some functions show the toast notification at the edges of the screen. Those toast notifications are enabled by default. You can disable them in the Function Key settings. To access it, click System Settings -> Function Key under TOSHIBA group in All apps. Windows special keys The keyboard provides two keys that have special functions in Windows, ®...

[Page 58](#) Care and use of the battery pack This section provides the important safety precautions in order to handle your battery pack properly. Refer to the enclosed Instruction Manual for Safety and Comfort for detailed precautions and handling instructions. Charge the battery pack only in an ambient temperature from 5 through 35 degrees Celsius.

[Page 59](#) The battery pack is extremely hot or cold (if the battery pack is extremely hot, it might not charge at all). To ensure the battery pack charges to its full capacity, charge it at room temperature of between 5°C to 35°C (41–95°F). The battery pack is nearly completely discharged.

## [Page 60: Wireless Wan Device](#)

System Sleep Mode System Hibernation Mode Display power off period How often and for how long you use the internal storage and external disk drives, for example, optical disc How much charge the battery pack contained to begin with How you use optional devices, such as a USB device, to which the battery pack supplies power Whether you enable Sleep Mode, which can conserve battery power if you are frequently turning the computer off and on...

## [Page 61: Gps Function](#)

Installing a Micro SIM card To install a Micro SIM card, do the following: Click Start -> Power, and then select Shut down. Remove the AC adaptor and all cables and peripherals connected to the computer. Place the Micro SIM card into the Micro SIM card slot with the metal connectors facing down.

## [Page 62: Memory Media](#)

Inside a bag or box Among dense trees When there is an obstacle (person or object) in the front of the antenna Underground tunnel, underground, or underwater Buildings, streets or residential areas Near to high voltage cables Bad weather, such as heavy rain or snow Memory media The computer is equipped with a memory media slot that can accommodate some kinds of memory media with various memory...

[Page 63](#) Formatting a memory media card Memory media cards are sold already formatted in conformity to specific standards. If you reformat a memory card, be sure to reformat it with a device such as digital camera or digital audio player that uses the memory cards, not with the format command provided within Windows.

## [Page 64: External Display](#)

Press the memory media gently until it clicks into place. Figure 4-17 Inserting memory media 1. Memory media slot 2. Memory media Make sure that the memory media is oriented properly before you insert it. If you insert the media in wrong direction, you might not be able to remove it.

[Page 65](#) Connecting an external display Your computer comes with a built-in display, but you can also connect other external displays via available ports on the computer. As the port operation of all external display devices have not been confirmed, some devices might not function properly. HDMI port HDMI (High-Definition Multimedia Interface) port digitally transfers both video and audio data without reducing the quality.

[Page 66](#) When you change the display output device, the playback device might not switch automatically. In this case, To set the playback device to the same device as the display output device, adjust the playback device manually by the following steps: 1.

## [Page 67: Optional Toshiba Accessories](#)

Stylus Pen Stylus Pen can be purchased from your TOSHIBA dealer for use as spare items. Not all the accessories are available in your region. Contact your reseller or TOSHIBA dealer for more information. Sound System and Video mode This section describes some of the audio control functions.

[Page 68](#) Volume Mixer The Volume Mixer utility lets you control the audio volume for playback of devices and applications under Windows. To launch the Volume Mixer utility, right-click on the speaker icon on the Windows taskbar, and then select Open Volume Mixer from the sub menu.

### [Page 69: Chapter 5 Utilities And Advanced Usage](#)

To access this utility, click System Settings under TOSHIBA group in All apps. TOSHIBA Setup Utility is a BIOS setup utility that provides you a menu-based user interface so that you can easily view and change BIOS settings.

[Page 70](#) This utility does not provide the user interface. You can enable or disable the monitoring operation by clicking Product Improvement Program under TOSHIBA group in All apps. This utility is only provided with some models. TOSHIBA Tablet You can use the utility to perform user login Access Code Logon authentication using a hand-written access code.

[Page 71](#) Advanced Audio in All apps. You might not have all the software listed in this section depending on the model you purchased. To access the setup files of the drivers/utilities, click Applications and Drivers under TOSHIBA group in All apps. User's Manual...

### [Page 72: Special Features](#)

Windows Store applications are not included in the setup files above but can be downloaded from Windows Store. Special features The following features are either unique to TOSHIBA computers or are advanced features which make the computer more convenient to use. Access each function using the following procedures.

### [Page 73: Toshiba Password Utility](#)

In this instance, all unsaved data in memory will be lost. TOSHIBA Password Utility The TOSHIBA Password Utility provides two levels of password security: User and Supervisor. Passwords set by the TOSHIBA Password Utility function are different from the Windows password. User's Manual...

[Page 74](#) User Password To start the utility, click Password Utility under TOSHIBA group in All apps, and click User Password. User authentication might be required to validate user rights when using TOSHIBA Password Utility to delete or change passwords, and so on.

[Page 75](#) If you forget your HDD User Password, TOSHIBA will NOT be able to assist you, and your HDD will be rendered COMPLETELY and PERMANENTLY INOPERABLE. TOSHIBA will NOT be held responsible for any loss of any data, any loss of use or access to your HDD, or for any other losses to you or any other person or organization that result from the loss of access to your HDD.

### [Page 76: Toshiba Tablet Access Code Logon Utility](#)

Disclaimer TOSHIBA does not guarantee that the Tablet Access Code Logon Utility is completely secure or error-free at all times. TOSHIBA is not liable for any failure or damage that might arise out of your use of the Tablet Access Code Logon Utility, even if advised of the possibility thereof.

### [Page 77: Toshiba Setup Utility](#)

TOSHIBA obligations under its standard limited warranty. TOSHIBA standard limited warranty terms and limitations apply. TOSHIBA Setup Utility TOSHIBA Setup Utility is a BIOS setup utility that provides you a menu-based user interface so that you can easily view and change BIOS settings.

[Page 78](#) 4. Deselect the Turn on fast startup check box from Shutdown settings. 5. Click the Save changes button. TOSHIBA Setup Utility can be navigated through the touch screen or the provided Stylus Pen. To save the changes and exit the utility, press the F10 key and proceed by selecting Yes or select Exit ->...

### [Page 79: Troubleshooting](#)

In reality many problems can be solved simply, but a few might require help from TOSHIBA Support. If you find you need to consult others, be prepared to describe the problem in as much

detail as possible.

[Page 80](#) Always try to make detailed notes of your observations and keep them in a permanent error log - this helps you to describe your problems to TOSHIBA Support. In addition, if a problem recurs, the log you have made helps to identify the problem faster.

[Page 81](#) Before using a peripheral device or application software that is not an authorized TOSHIBA part or product, make sure that the device or software can be used with your computer. Use of incompatible devices might cause injury or might damage your computer.

### [Page 82: Hardware And System Checklist](#)

If you are using an AC adaptor, verify that the computer is receiving power from the external power source by looking at the Battery indicator. If the indicator is glowing, the computer is connected to a live external power source. The computer does not load advanced options during startup By holding down one of the following keys or buttons during startup, your...

[Page 83](#) Leave the computer off until it reaches room down automatically. temperature. If the computer has reached room temperature and it still does not start, or if it starts but shuts down quickly, contact TOSHIBA Support. AC power Problem Procedure AC adaptor does not...

[Page 84](#) The lasting time of the Real-Time Clock (RTC) has and system date/ run out. You must set the date and time in the time are lost. TOSHIBA Setup Utility by using the following steps: Launch the BIOS setup utility. Refer to the...

[Page 85](#) (remapping involves changing or reassigning the function of each key). If you are still unable to use the keyboard, you should contact TOSHIBA Support. Internal display panel Apparent problems of the computer's display panel might be related to setup and configuration of the computer.

[Page 86](#) If you are still unable to resolve the problem, contact TOSHIBA Support. Pointing device If you are using a USB mouse, you should also refer to both the mouse section and the documentation supplied with your mouse.

[Page 87](#) Sound -> Mouse under Windows System in sensitive enough. All apps. If you are still unable to resolve the problem, contact TOSHIBA Support. USB mouse Problem Procedure On-screen pointer In this instance, the system might be busy. Try...

[Page 88](#) If you are still unable to resolve the problem, contact TOSHIBA Support. USB device In addition to the information in this section, also refer to the documentation supplied with your USB device.

[Page 89](#) Volume cannot be adjusted during Windows start up or shut down. If you are still unable to resolve the problem, contact TOSHIBA Support. External monitor Also refer to Operating Basics, and to the documentation supplied with your monitor for further information.

[Page 90](#) Display error occurs Check that the cable connecting the external monitor to the computer is firmly attached. If you are still unable to resolve the problem, contact TOSHIBA Support. Wireless LAN Problem Procedure Cannot access...

### [Page 91: Toshiba Support](#)

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

### [Page 92: Appendix Specifications](#)

Chapter 7 Appendix Specifications This section summarizes the technical specifications of the computer. Physical Dimensions The following physical dimensions do not include parts that extend beyond the main body. The physical dimensions might vary depending on the model you purchased. Size Approximately 299.4(w) x 202.7 (d) x 6.9 (h) millimeters (tablet mode)

## [Page 93: Information For Wireless Devices](#)

If you experience any such problem, immediately turn off either one of your Bluetooth or Wireless LAN. If you have any questions about using Wireless LAN or Bluetooth Module, visit <http://www.pc.support.global.toshiba.com> In Europe, visit <http://www.toshiba-europe.com/computers/tnt/bluetooth.htm> Wireless Devices and your health Wireless products, like other radio devices, emit radio frequency electromagnetic energy.

[Page 94](#) Because Wireless products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless products are safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

[Page 95](#) If this occurs, the outsider might illegally access your system, eavesdrop, or cause the loss or destruction of stored data. TOSHIBA is not liable for the loss of data due to eavesdropping or illegal access through the wireless LAN and the damage thereof. Card Specifications Compatibility IEEE 802.11 Standard for Wireless LANs...

[Page 96](#) High-power radars are allocated as primary users (i.e. priority users) of the bands 5.25 to 5.35GHz and 5.65 to 5.85GHz and that these radars could cause interference and/or damage to LE-LAN devices. Bluetooth wireless technology Some computers in this series have Bluetooth wireless communication function which eliminates the need for cables between electronic devices such as computers, printers, and mobile phones.

[Page 97](#) Italy: For private use, a general authorization is required if WAS/ RLAN's are used outside own premises. For public use, a general authorization is required. Luxembourg: Implemented General authorization required for network and service supply. Norway: Implemented This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Alesund.

[Page 98](#) Restrictions for Use of 5470-5725MHz Frequencies in Europe Italy: For private use, a general authorization is required if WAS/ RLAN's are used outside own premises. Luxembourg: Implemented General authorization required for network and service supply Russian Limited e.i.r.p 100mW. Permitted to use Federation: only for indoor applications, closed industrial and warehouse areas,...

[Page 99](#) Les dispositifs fonctionnant dans la bande 5.15-5.25GHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux. Les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5.25-5.35GHz et 5.65-5.85GHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-...

[Page 100](#) 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. Contact an authorized TOSHIBA service provider if you have problems with interference caused by this product to Other Radio Stations.

[Page 101](#) (1)(2) (3)(4) 2.4: This equipment uses a frequency of 2.4GHz. DS: This equipment uses DS-SS modulation. OF: This equipment uses OFDM modulation. 4: The interference range of this equipment is less than 40m. : This equipment uses a frequency bandwidth from 2,400MHz to 2,483.5MHz.

## [Page 102: Legal Footnotes](#)

This equipment is approved to the radio standard by the countries/regions in the following table. If you use this equipment in the countries/regions which are not listed in the following table, contact TOSHIBA Support. As of October 2015 Austria Belgium...

[Page 103](#) For optimum performance, use your computer product only under recommended conditions. Read additional restrictions in your product documentation. Contact TOSHIBA technical service and support, refer to TOSHIBA support section for more information.

[Page 104](#) Published battery life numbers are achieved on select models and configurations tested by TOSHIBA at the time of publication. Recharge time varies depending on usage.



Battery might not charge while computer is consuming full power.

### [Page 105: Glossary](#)

Graphics Processing Unit (GPU) Graphics processing unit (GPU) performance might vary depending on product model, design configuration, applications, power management settings and features utilized. GPU performance is only optimized when operating in AC power mode and might decrease considerably when operating in battery power mode.

[Page 106](#) Direct Current DDR: Double Data Rate DIMM: Dual Inline Memory Module DVD: Digital Versatile Disc DVD-R: Digital Versatile Disc-recordable DVD-RAM: Digital Versatile Disc-random Access Memory DVD-R DL: Digital Versatile Disc Recordable Dual Layer DVD-ROM: Digital Versatile Disc-read Only Memory DVD-RW: Digital Versatile Disc-rewritable DVD+R DL: Digital Versatile Disc Recordable Double Layer...

[Page 107](#) PCI: Peripheral Component Interconnect PCMCIA: Personal Computer Memory Card International Association RAM: Random Access Memory RGB: Red, Green, and Blue RFI: Radio Frequency Interference ROM: Read-Only Memory RTC: Real-Time Clock S/P DIF: Sony/philips Digital Interface Format Secure Digital SDHC: Secure Digital High Capacity SDXC: Secure Digital Extended Capacity SDRAM:...

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[Page 109](#) 6-10 Overheating power down 6-5 Power 6-5 Real-Time Clock 6-6 Sound system 6-10 Video mode 4-24 TOSHIBA support 6-13 Touch Pad 6-8 Video RAM 3-7 USB device 6-10 USB mouse 6-9 Web Camera (back) 3-2 Web Camera (front) 3-3...