

TOSHIBA

Leading Innovation >>>

User's Manual

Z30/Z40-B

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Chapter 1

TOSHIBA Legal, Regulatory, and Safety

This chapter states the legal, regulatory, and safety information applicable to TOSHIBA computers.

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Disclaimer

This manual has been validated and reviewed for accuracy. The instructions and descriptions it contains are accurate for your computer at the time of this manual's production. However, succeeding computers and manuals are subject to change without notice. TOSHIBA assumes no liability for damages incurred directly or indirectly from errors, omissions or discrepancies between the computer and the manual.

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Realtek is a registered trademark of Realtek Semiconductor Corporation.

All other product names and service names in this manual might be trademarks or registered trademarks of their respective companies.

Regulatory Information



The regulatory information herein might vary. Check the ID information on the bottom of the device for specific information applicable to the model you purchased.

FCC information

FCC notice "Declaration of Conformity Information"

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Only peripherals complying with the FCC class B limits can be attached to this equipment. Operation with non-compliant peripherals or peripherals not recommended by TOSHIBA is likely to result in interference to radio and TV reception. Shielded cables must be used between the external devices and the computer's external RGB monitor port, Universal Serial Bus (USB 3.0) ports, HDMI out port and Headphone/Microphone jack. 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.

FCC conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Contact

Address: TOSHIBA America Information Systems, Inc.
9740 Irvine Boulevard
Irvine, California 92618-1697

Telephone: (949) 583-3000



This information is only applicable for the countries/regions where it is required.

EU Declaration of Conformity



This product is carrying the CE-Mark in accordance with the related European Directives. Responsible for CE-Marking is TOSHIBA EUROPE GMBH, Hammfelddamm 8, 41460 Neuss, Germany. The complete and official EU Declaration of Conformity can be found on TOSHIBA's web site

<http://epps.toshiba-teg.com> on the Internet.

CE compliance

This product is labeled with the CE Mark in accordance with the related European Directives, notably RoHS Directive 2011/65/EU and Electromagnetic Compatibility Directive 2004/108/EC for the notebook and

the electronic accessories including the supplied power adapter, the Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC in case of implemented telecommunication accessories and the Low Voltage Directive 2006/95/EC for the supplied power adapter. Furthermore the product complies with the Ecodesign Directive 2009/125/EC (ErP) and its related implementing measures.

This product and the original options are designed to observe the related 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. To avoid general EMC problems, the following guidance should be noted:

- Only CE marked options should be connected/implemented
- Only best shielded cables should be connected

Working environment

This product was designed to fulfil the EMC (Electromagnetic Compatibility) requirements to be observed for so-called “Residential, commercial and light industry environments”. TOSHIBA do not approve the use of this product in working environments other than the above mentioned “Residential, commercial and light industry environments”.

For example, the following environments are not approved:

- Industrial Environments (e.g. environments where a mains voltage of 380 V three-phase is used)
- Medical Environments
- Automotive Environments
- Aircraft Environments

Any consequences resulting from the use of this product in working environments that are not approved are not the responsibility of TOSHIBA.

The consequences of the use of this product in non-approved working environments may be:

- Interference with other devices or machines in the near surrounding area.
- Malfunction of, or data loss from, this product caused by disturbances generated by other devices or machines in the near surrounding area.

Therefore TOSHIBA strongly recommend that the electromagnetic compatibility of this product should be suitably tested in all non-approved working environments before use. In the case of automobiles or aircraft, the manufacturer or airline respectively should be asked for permission before use of this product.

Furthermore, for general safety reasons, the use of this product in environments with explosive atmospheres is not permitted.

Canadian regulatory information (Canada only)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.

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.

Cet appareil numérique de la class B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Following information is only valid for EU-member States:

Disposal of products



The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in the separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please visit our website

(www.toshiba.eu/recycling) or contact your local council office or the retail outlet where you purchased the product.

Disposal of batteries and/or accumulators



Pb, Hg, Cd

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the European Battery Directive, then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in the separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. To achieve this you should take any battery and/or accumulator to your local recycling site, or to a retail outlet or facility that offers to collect these devices for environmentally friendly disposal, ensuring that the terminal contacts are covered by non-conductive tape.

For more detailed information about the collection and recycling programmes available in your country, please visit our website

(www.toshiba.eu/recycling) or contact your local council office or the retail outlet where you purchased the product.



These symbols might not stick depending on the country and region where you purchased.

REACH - Compliance Statement

The European Union (EU) chemical regulation, REACH (Registration, 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.

Please consult the following website

www.toshiba.eu/reach for information about the presence in our articles of substances included on the candidate list according to REACH in a concentration above 0.1 % weight by weight.

Following information is only for Turkey:

- Disposal of products:



The crossed wheeled bin symbol means that this product should not be collected and disposed of with other household wastes. When product become waste at the end-of-life, to protect environment and human health, it should be given to nearest collection recycling or disposal center. For more information about collection and recycling programs in your country please contact your local authority or the retailer where the product was purchased.

- Toshiba meets all requirements of Turkish regulation 28300 "Restriction of the use of certain hazardous substances in electrical and electronic equipment".

AEEE Yönetmeliğine Uygundur

Toshiba 28300 sayılı Türkiye "Elektrikle çalışan ve elektronik ekipmanda belirli tehlikeli maddelerin kullanımıyla ilgili kısıtlama" yönetmeliği gereklerini tamamen yerine getirmektedir.

- The number of possible pixel failures of your display is defined according to ISO 9241-307 standards. If the number of pixel failures is less than this standard, they will not be counted as defect or failure.
- Battery is a consumption product, since the battery time depends on the usage of your computer. If the battery can not be charged at all, then it is a defect or failure. The changes in battery time is not a defect or failure.

Following information is only for India:



The use of this symbol indicates that this product may not be treated as household waste.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

For more detailed information about recycling of this product, please visit our website

(<http://www.toshiba-india.com>) or contact call center (1800-200-8674).



These symbols might not stick depending on the country and region where you purchased.

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 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL, INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA, L.L.C. SEE [HTTP://WWW.MPEGLA.COM](http://www.mpegla.com)

ENERGY STAR® Program



Your Computer model may be ENERGY STAR® compliant. If the model you purchased is compliant, it uses the Energy Star logo and the following information applies.

TOSHIBA is a partner in the ENERGY STAR Program and has designed this computer to meet the latest ENERGY STAR guidelines for energy efficiency. Your computer ships with the power management options preset to a configuration that will provide the most stable operating environment and optimum system performance for both AC power and battery modes.

To conserve energy, your computer is set to enter the low-power Sleep Mode which shuts down the system and display within 15 minutes of inactivity in AC power mode.

TOSHIBA recommends that you leave this and other energy saving features active, so that your computer will operate at its maximum energy efficiency. You can wake the computer from Sleep Mode by pressing the power button.

Your ENERGY STAR certified computer should be set by default to enter a low-power "sleep mode" after a period of inactivity. Simply touching the mouse or keyboard "wakes" the computer in seconds. These sleep features can save you up to \$23 per year (200 kWh per year in electricity) and prevent up to 300 pounds of greenhouse gas emissions annually. To learn how to adjust or activate these sleep settings on your computer, please go to:

www.energystar.gov/sleepinstructions

To activate sleep settings organization-wide quickly and easily through network tools, please go to

www.energystar.gov/powermanagement

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. However, certain precautions should be

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). In this condition, observe the following:

- Never cover your computer or AC adaptor with any object.
- Never place your computer or AC adaptor near a heat source, such as an electric blanket or heater.
- Never cover or block the air vents including those at the base of the computer.
- Always operate your computer on a hard flat surface. Using your computer on a carpet or other soft material can block the vents.
- Always provide sufficient space around the computer.

Overheating your computer or AC adaptor could cause system failure, computer or AC adaptor damage or a fire, possibly resulting in serious injury.

Creating a computer-friendly environment

Place the computer on a flat surface that is large enough for the computer and any other items you are using, such as a printer.

Leave enough space around the computer and other equipment to provide adequate ventilation. Otherwise, they might overheat.

To keep your computer in prime operating condition, protect your work area from:

- Dust, moisture, and direct sunlight.
- 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.
- Extreme heat, cold, or humidity.
- Liquids and corrosive chemicals.

Stress injury

Carefully read the *Instruction Manual for Safety and Comfort*. It contains information on the prevention of stress injuries to your hands and wrists that can be caused by extensive keyboard use. It also includes information on work space design, posture, and lighting that can help reduce physical stress.

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.
- If the computer has been used for a long time, avoid direct contact with the metal plate supporting the various interface ports as this can become hot.
- The surface of the AC adaptor can become hot when in use but this condition does not indicate a malfunction. If you need to transport the AC adaptor, disconnect it and let it cool before moving it.
- Do not lay the AC adaptor on a material that is sensitive to heat as the material could become damaged.

Pressure or impact damage

Do not apply heavy pressure to the computer or subject it to any form of strong impact as this can damage the computer's components or otherwise cause it to malfunction.

Cleaning the computer

To help ensure long, trouble-free operation, keep the computer free of dust and dirt, and use care with all liquids around it.

- Be careful not to spill liquids into the computer. If the computer does get wet, turn the power off immediately and let the computer dry completely. In these circumstances, you should get the computer inspected by an authorized service provider in order to assess the scope of any damage.
- Clean the plastics of the computer using a cloth slightly dampened with water.
- You can clean the display screen by spraying a small amount of glass cleaner onto a soft, clean cloth and then wiping the screen gently with the cloth.



Never spray cleaner directly onto the computer or let liquid run into any part of it. Never use harsh or caustic chemical products to clean the computer.

Moving the computer

While the computer is designed for flexible day-to-day usage, you should exercise a few simple precautions when moving it in order to help ensure trouble-free operation.

-
- Make sure all disk/disc activity has ended before moving the computer.
 - Turn off (shut down) the computer.
 - Disconnect the AC adaptor and all peripherals before moving the computer.
 - Close the display panel.
 - Do not pick up the computer by its display panel.
 - Before carrying your computer, shut it down, disconnect the AC adaptor and allow it to cool down. A failure to follow this instruction might result in minor heat injury.
 - Do not expose the computer to rapid temperature changes (for example, in a situation where you carry the computer from a cold environment to a warm room). Do not turn on the power until condensation disappears.
 - Be careful not to subject the computer to impact or shock. A failure to follow this instruction could result in damage to computer, computer failure, or loss of data.
 - Never transport your computer with any cards installed. This might damage either the computer and/or the card resulting in computer failure.
 - Always use a suitable carry case when transporting the computer.
 - When carrying your computer, be sure to hold it securely so that it does not fall or hit anything.
 - Do not carry your computer by holding any of its protruding elements.

Mobile phones

Be aware that the use of mobile phones can interfere with the audio system. The operation of the computer will not be impaired in any way, but it is recommended that a minimum distance of 30 cm is maintained between the computer and a mobile phone that is in use.

Instruction Manual for Safety and Comfort

All important information on the safe and proper use of this computer is described in the enclosed Instruction Manual for Safety and Comfort. Be sure to read it before using the computer.

Safety Icons

Safety icons are used in this manual to bring important information to your attention. Each type of message is identified as follows.



Indicates a potentially hazardous situation, which could result in death or serious injury, if you do not follow instructions.



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.

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.

Hardware

Check to make sure that you have all the following items:

- TOSHIBA Portable Personal Computer
- AC adaptor and power cord (2-pin plug or 3-pin plug)
- Cleaning cloth (provided with some models)

Documentation

- QuickStart
- Instruction Manual for Safety and Comfort
- Warranty Information

If any of the items are missing or damaged, contact your dealer immediately.



Conventions

This manual uses the following formats to describe, identify, and highlight terms and operating procedures.

Internal Storage Drive Your computer is equipped with one of the following storage devices:

- HDD (Hard Disk Drive)
- SSD (Solid-State Drive)


In this manual, the word "internal storage drive" refers to either HDD or SSD unless otherwise stated.

| | |
|---------------------|--|
| Click | <ul style="list-style-type: none"> ■ Tap the Touch Pad or click the left Touch Pad control button once. ■ Left-click the mouse once. ■ Tap the touch screen once (only for touch screen models). |
| Right-click | <ul style="list-style-type: none"> ■ Tap the Touch Pad with two fingers together or click the right Touch Pad control button once. ■ Right-click the mouse once. ■ Press and hold on the touch screen (only for touch screen models). |
| Double-click | <ul style="list-style-type: none"> ■ Tap the Touch Pad or click the left Touch Pad control button twice. ■ Left-click the mouse twice. ■ Tap the touch screen twice (only for touch screen models). |
| Charm | <p>You can find a list of charms: Search, Share, Start, Devices, and Settings by the following ways:</p> <ul style="list-style-type: none"> ■ Point the mouse pointer to the lower-right (or upper-right) corner of your screen. ■ Swipe in from the right edge of the Touch Pad. ■ Swipe in from the right edge of the touch screen (only for touch screen models). |
| Desktop | <p>Click the Desktop tile from the Start screen to access the desktop.</p> |
| Start screen | <p>You can go back to the Start screen from an app or the desktop by the following ways:</p> <ul style="list-style-type: none"> ■ Click the Start charm. ■ Move the mouse pointer all the way into the lower-left corner of the screen and then click the Start button (). ■ Press the Windows® logo key () on your keyboard. <p>For detailed information, refer to the Windows Help and Support.</p> |

Apps view

You can find all of your apps including desktop programs in the Apps view.

To get to the Apps view:

- Move the mouse pointer and then click the  icon in the lower-left corner of the screen.
- Slide up from the middle of the Start screen (only for touch screen models).

Short model name

Model name of your computer is shortened and referred to as the following in this manual.

| LCD | Full Model Name | Short Model Name |
|-------------------|--|------------------|
| 33.8cm (13.3") | PORTÉGÉ Z30-B/Z30t-B; Satellite Z30-B/Z30t-B | Z30-B |
| 35.6cm (14.0") | TECRA Z40-B/Z40t-B; Satellite Z40-B/Z40t-B | Z40-B |

Using your computer for the first time



Be sure to read the enclosed Instruction Manual for Safety and Comfort for information on the safe and proper use of this computer. It is intended to help you be more comfortable and productive while using the notebook computer. By following the recommendations in it, you can reduce your chance of developing a painful or disabling injury to your hand, arms, shoulders, or neck.

This section provides basic information to start using your computer. It covers the following topics:

- Connecting the AC adaptor
- Opening the display
- Turning on the power
- Initial setup
- Getting to know Windows



- *Use a virus-check program and make sure that it is updated regularly.*
- *Never format storage media without checking its content - formatting destroys all stored data.*

- *It is a good idea to back up the internal storage drive or other main storage device to external media periodically. General storage media is not durable or stable over long periods of time and under certain conditions might result in data loss.*
- *Before you install a device or application, save any data in memory to the internal storage drive or other storage media. Failure to do so might result in data loss.*

Connecting the AC adaptor

Attach the AC adaptor when you want to charge the battery or operate from AC power. The battery pack must be charged before you can operate from battery power.

The AC adaptor can automatically adjust to any voltage ranging from 100 volts to 240 volts and to a frequency of either 50 hertz or 60 hertz, enabling you to use this computer in almost any country/region. The adaptor converts AC power to DC power and reduces the voltage supplied to this computer.



- *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. TOSHIBA assumes no liability for any damage caused by use of an incompatible adaptor.*
- *Never plug the AC adaptor into a power source that does not correspond to both the voltage range and the frequency specified on the regulatory label of the unit. Failure to do so might result in a fire or electric shock, possibly resulting in serious injury.*
- *Always use or purchase power cables that comply with the legal voltage and frequency specifications and requirements in the country of use. Failure to do so might result in a fire or electric shock, possibly resulting in serious injury.*
- *The supplied power cord conforms to safety rules and regulations in the region the computer is bought and should not be used outside this region. For use in other regions, buy power cords that conform to safety rules and regulations in the particular region.*
- *Do not use a 3-pin to 2-pin conversion plug.*

- *When you connect the AC adaptor to the computer, always follow the steps in the exact order as described in this User's Manual. Connecting the power cable to a live electrical outlet should be the last step otherwise the adaptor DC output plug might hold an electrical charge and cause an electrical shock or minor bodily injury when touched. As a general safety precaution, avoid touching any metal parts.*
- *Never place your computer or AC adaptor on a wooden surface, furniture, or any other surface that might be marred by exposure to heat since the computer base and the surface of the AC adaptor increase in temperature during normal use.*
- *Always place your computer or AC adaptor on a flat and hard surface that is resistant to heat damage.*

Refer to the enclosed Instruction Manual for Safety and Comfort for detailed precautions and handling instructions.

1. Connect the power cord to the AC adaptor.

Figure 2-1 Connecting the power cord to the AC adaptor (2-pin plug)

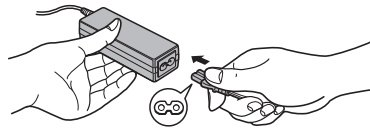
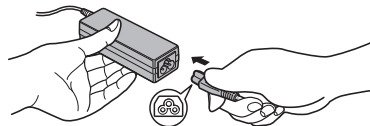


Figure 2-2 Connecting the power cord to the AC adaptor (3-pin plug)



Either a 2-pin or 3-pin adaptor/cord is included with the computer depending on the model.

2. Connect the DC output plug of the AC adaptor to the DC IN 19V jack on your computer.
3. Plug the power cord into a live wall outlet. The **DC IN/Battery** indicator glows.

Figure 2-3 Connecting the DC output plug to the computer (Z30-B)

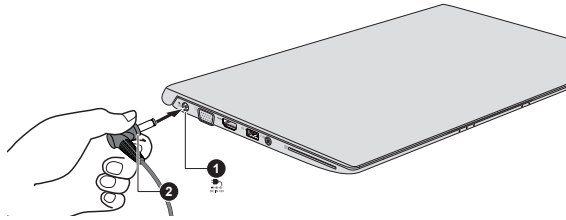
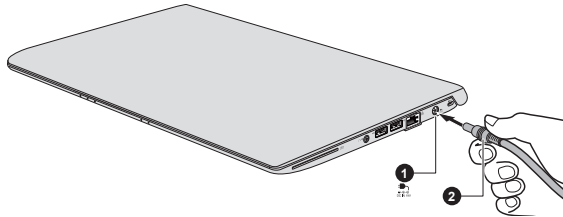


Figure 2-4 Connecting the DC output plug to the computer (Z40-B)



1. DC IN 19V jack

2. DC output plug

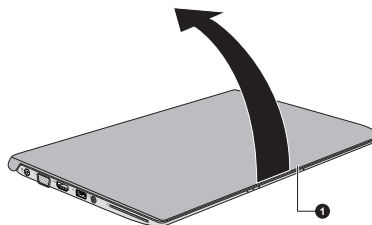
Product appearance depends on the model you purchased.

Opening the display

The display panel can be opened to a wide range of angles for optimal viewing.

While holding down the palm rest with one hand so that the main body of the computer is not raised, slowly lift the display panel. It allows the angle of the display panel to be adjusted to provide optimum clarity.

Figure 2-5 Opening the display panel (Z30-B)



1. Display panel

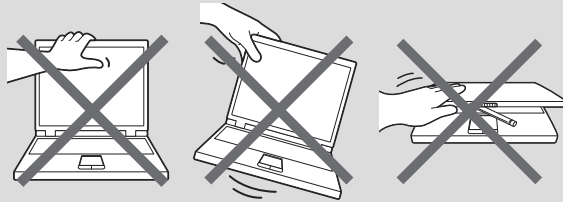
Product appearance depends on the model you purchased.



Open and close the display panel with reasonable care. Opening it vigorously or slamming it shut might damage the computer.



- *Be careful not to open the display panel too far as this might put stress on the display panel's hinges and cause damage.*
- *Do not press or push on the display panel.*
- *Do not lift the computer by the display panel.*
- *Do not close the display panel with pens or any other objects left in between the display panel and the keyboard.*
- *When opening or closing the display panel, place one hand on the palm rest to hold the computer in place and use the other hand to slowly open or close the display panel (Do not use excessive force when opening or closing the display panel).*



Turning on the power

This section describes how to turn on the power. The Power indicator indicates the status. Refer to the [Power Condition Descriptions](#) section for more information.



- *After you turn on the power for the first time, do not turn it off until you have set up the operating system.*
- *Volume cannot be adjusted during Windows Setup.*
- *Do not touch the display screen while turning on the computer.*

1. Open the display panel.
2. Press the power button.

Figure 2-6 Turning on the power (Z30-B)

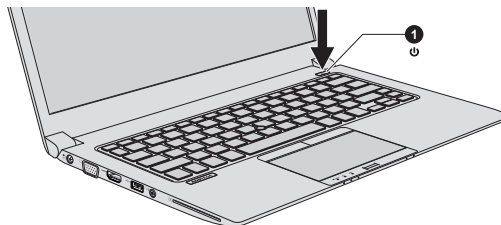
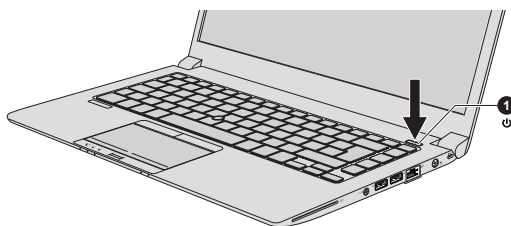


Figure 2-7 Turning on the power (Z40-B)



1. Power button

Product appearance depends on the model you purchased.

Initial setup

The Windows Startup Screen is the first screen displayed when you turn on the power. To install the operating system properly, follow the on-screen instructions on each screen.



When it is displayed, be sure to read the **License Terms** carefully.

Getting to know Windows

For detailed information on what is new and how to operate Windows, refer to the Windows Help and Support.

Start screen

The Start screen is the launching pad for everything you can do in the Windows operating system, providing new and easy ways to access everything from your favorite apps and websites to your contacts and other important information.


From the Start screen, you can start typing to search for what you want. From there, you can easily switch between results for apps, files, and more.

Windows Taskbar

Point to the bottom edge to show the Windows Taskbar on the Start screen. (If you have moved the Windows Taskbar to another edge, point there.)

You can see all of your recently used apps on the Windows Taskbar.

Power Options icon

The Start screen provides you a convenient way to enter the Shut Down/Sleep/Hibernation Mode. You can click the power icon () on the upper right of the Start screen and then select the mode you want.

Charms

Use the Windows charms to start apps, find documents, set up system components, and perform most other computing tasks.

By pointing the mouse pointer to the upper or lower right corner of your screen, you can find a list of charms: **Search**, **Share**, **Start**, **Devices**, and **Settings**.



Search

This charm allows you to search your computer (apps, settings, and files), the web, or within an app. You can also find the **Search** icon on the upper right of the Start screen.



Share

This charm allows you to share items (links, photos, and more).



Start

This charm takes you to the Start screen or, if already on the Start screen, returns you to your last app.



Devices

This charm allows you to manage your hardware.



Settings

This charm allows you to access your computer settings (volume, brightness, connecting to the Internet, and more).

Tiles

Tiles can be accessed and launched from the Start screen.


Typical Start screen tiles are the Desktop tile and Mail tile, as well as tiles representing all other applications downloaded to your system.



Windows Store


Although many applications are pre-installed or built-in to your computer, you can also download many other applications at the click of your mouse.

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

Sign-in options

Windows offers a number of sign-in options including **Password** (),

PIN () and **Picture password** () authentication to prevent from unauthorized access. If you have multiple sign-in methods set for a user account, you can select an option on the Windows login screen by clicking sign-in options. Password authentication is the default sign-in option.

TOSHIBA also provides advanced **sign-in options**, such as **Fingerprint** () verification. For more information, refer to [Utilities and Advanced Usage](#).

Turning off the power

The power can be turned off in one of the following modes, either Shut Down Mode, Sleep Mode or Hibernation Mode.


Shut Down Mode

When you turn off the power in Shut Down Mode, no data will be saved and the computer will boot to the main screen of the operating system the next time it is turned on.

1. If you have entered data, either save it to the internal storage drive or to other storage media.
2. Make sure all disk/disc activity has stopped before removing the disk/disc.



- *If you turn off the power while a disk (disc) is being accessed, you might lose data or damage the disk.*
- *Never turn off the power while an application is running. Failure to do so can cause data loss.*
- *Never turn off the power, disconnect an external storage device, or remove storage media during data read/write. Failure to do so can cause data loss.*

3. Click the power icon () on the Start screen and then select **Shut down**.
4. Turn off any peripheral devices connected to your computer.





Do not turn the computer or peripheral devices back on immediately. Wait a short period to avoid any potential damage.

Restarting the computer

Certain conditions require that you reset the computer, for example if:

- You change certain computer settings.

To restart the computer, there are several ways this can be achieved:

- Click the power icon () on the Start screen and then select **Restart**.
- In the **Settings** charm, click **Power** and then select **Restart**.
- Press **CTRL**, **ALT**, and **DEL** simultaneously (once) to display the menu window, and then select **Restart** by clicking the power icon () in the lower-right corner.



Before restarting the computer, be sure to save your data.

Sleep Mode

If you have to interrupt your work, you are able to turn off the power without exiting from your software by placing the computer into Sleep Mode. In this mode, data is maintained in the main memory of the computer. When you turn on the power again, you can continue working right where you left off.



When you have to turn off your computer aboard an aircraft or in places where electronic devices are regulated or controlled, always shut down the computer. This includes turning off any wireless communication functionalities, and canceling settings that reactivate the computer automatically, such as a timer recording function. Failure to shut down the computer in this way might allow the operating system to reactivate and run pre-programmed tasks or preserve unsaved data, which might interfere with aviation or other systems, possibly causing serious injury.



- *Before entering Sleep Mode, be sure to save your data.*
- *To prevent data loss, do not switch to Sleep Mode while transferring data to external media, such as USB devices, memory media, or other external memory devices.*



- *When the AC adaptor is connected, the computer will go into Sleep Mode according to the settings in the Power Options (to access it, click **Control Panel -> System and Security -> Power Options** under **Windows System** group in the Apps view).*
- *To restore the operation of the computer from Sleep Mode, press and hold the power button or any key on the keyboard for a short amount of time. 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.*
- *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.

- Saves power by shutting down the system when the computer receives no input or hardware access for the time period set by the System Sleep Mode feature.
- Allows the use of the panel power off feature.

Executing Sleep Mode

You can enter Sleep Mode in one of following ways:

- Click the power icon () on the Start screen and then select **Sleep**.
- In the **Settings** charm, click **Power** and then select **Sleep**.
- Close the display panel. Note that this feature must be enabled within the Power Options.
- Press the power button. Note that this feature must be enabled within the Power Options.

When you turn the power back on, you can continue where you left off when you shut down the computer.



- *When the computer is in Sleep Mode, the Power indicator blinks amber.*
- *If you are operating the computer on battery power, you can lengthen the overall operating time by turning it off into Hibernation Mode. Sleep Mode consumes more power while the computer is off.*

Sleep Mode limitations

Sleep Mode will not function under the following conditions:

- Power is turned back on immediately after shutting down.
- Memory circuits are exposed to static electricity or electrical noise.
- The battery power is exhausted and the AC Adaptor is not connected.

Hibernation Mode

The Hibernation Mode feature saves the contents of memory to the internal storage drive when the computer is turned off so that, the next time it is turned on, the previous state is restored. Note that the Hibernation Mode feature does not save the status of any peripheral devices connected to the computer.



- *Save your data. While entering Hibernation Mode, the computer saves the contents of memory to the internal storage drive. However, for safety sake, it is best to save your data manually.*
- *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 drive when the computer automatically shuts down because of a low battery condition.
- You can return to your previous working environment immediately when you turn on the computer.
- Saves power by shutting down the system when the computer receives no input or hardware access for the time period set by the System Hibernate feature.
- Allows the use of the panel power off feature.

Starting Hibernation Mode

To enter Hibernation Mode, click the power icon () on the Start screen and then select **Hibernate**.



To show **Hibernate** in Power menu, set up according to the following steps:

1. Click **Control Panel** -> **System and Security** -> **Power Options** under **Windows System** group in the Apps view.
2. Click **Choose what the power button does** or **Choose what closing the lid does**.
3. Click **Change settings that are currently unavailable**.
4. Select the **Hibernate** check box from Shutdown settings.
5. Click the **Save changes** button.

Automatic Hibernation Mode

The computer can be configured to enter Hibernation Mode automatically when you press the power button or close the lid. To define these settings, do the following:

1. Click **Power Options** and then click **Choose what the power button does** or **Choose what closing the lid does**.
2. Enable the desired Hibernation Mode settings for **When I press the power button** and **When I close the lid**.
3. Click the **Save changes** button.

Data save in Hibernation Mode

When you turn off the power in Hibernation Mode, the computer takes a moment to save the current data in memory to the internal storage drive.

After you turn off the computer, and the content of memory has been saved to the internal storage drive, turn off the power to any peripheral devices.



Do not turn the computer or devices back on immediately. Wait a moment to let all capacitors fully discharge.

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.



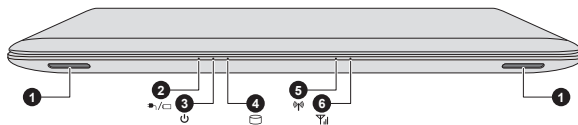
Handle your computer carefully to avoid scratching or damaging the surface.

The Grand Tour for Z30-B

Front with the display closed (Z30-B)

The following figure shows the front of the computer with the display panel in the closed position.

Figure 3-1 Front of the computer with display panel closed (Z30-B)



- | | |
|----------------------------|-------------------------------------|
| 1. Stereo speakers | 4. Internal storage drive indicator |
| 2. DC IN/Battery indicator | 5. Wireless communication indicator |
| 3. Power indicator | 6. Wireless WAN/WiMAX indicator* |

* Provided with some models.

Product appearance depends on the model you purchased.

Stereo speakers

The speakers emit sound generated by your software as well as audio alarms, such as low battery condition, generated by the system.



DC IN/Battery indicator

The **DC IN/Battery indicator** shows the condition of the DC IN and the battery charge status. White indicates the battery is fully charged while the power is being correctly supplied from the AC power adaptor.

Refer to the [Power Condition Descriptions](#) section for more information on this feature.



Power indicator

The **Power indicator** normally glows white when the computer is turned on. However, if you turn off the computer into Sleep Mode, this indicator flashes amber.



Internal storage drive indicator

The **Internal storage drive indicator** blinks white whenever the computer is accessing the internal storage drive.



Wireless communication indicator

The **Wireless communication indicator** glows white when the wireless functions are turned on. Some models are equipped with wireless functions.



The Wireless LAN function can be enabled when airplane mode is turned on. However, the wireless communication indicator does not glow.



Wireless WAN/WiMAX indicator

The **Wireless WAN/WiMAX indicator** glows blue when the Wireless WAN/WiMAX functions are turned on.

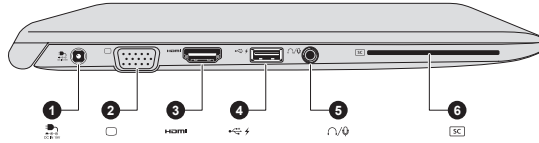
For some models, the indicator blinks to indicate the connection status of the Wireless WAN/WiMAX function.

Some models are equipped with the Wireless WAN/WiMAX function.

Left side (Z30-B)

The following figures show the left side of the computer.

Figure 3-2 The left side of the computer (Z30-B)



1. DC IN 19V jack
2. External RGB monitor port
3. HDMI out port*
4. Universal Serial Bus (USB 3.0) port
5. Headphone/Microphone jack
6. Smart Card slot*

* Provided with some models.

Product appearance depends on the model you purchased.



DC IN 19V

DC IN 19V jack

The AC adaptor connects to this jack to power the computer and charge its internal batteries. Note that you must only use the model of AC adaptor supplied with the computer at the time of purchase. Using the wrong AC adaptor can damage the computer.



External RGB monitor port

This port provides 15-pin, analog RGB port. Refer to the [External RGB monitor port pin assignment](#) section for information on external RGB monitor port pin assignment. This port allows you to connect an external RGB monitor to the computer.



HDMI out port

HDMI out port can connect with Type A connector HDMI cable.



Universal Serial Bus (USB 3.0) port

One Universal Serial Bus port, which complies to the USB 3.0 standard, is provided on the left side of the computer.

The USB 3.0 port is compliant with USB 3.0 standard and backward compatible with USB 2.0 devices.



- *USB 3.0 port(s) might work as USB 2.0 port(s) when operating in USB Legacy Emulation mode.*
- *Note that it is not possible to confirm the operation of all functions of all USB devices that are available. Some functions associated with a specific device might not operate properly.*

- Before removing a USB device from the USB port of your computer, click the **Safely Remove Hardware and Eject Media** icon on the Windows Taskbar, and then select the USB device that you want to remove.



Keep foreign metal objects, such as screws, staples, and paper clips, out of the USB port. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.



Headphone/ Microphone jack

A 3.5 mm mini headphone/microphone jack enables connection of a monaural microphone or a stereo headphone.



Smart Card slot

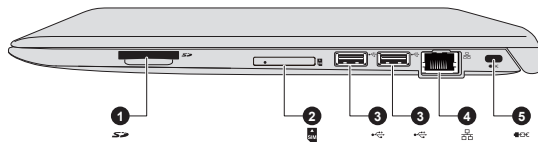
This slot allows you to install a Smart Card device.

Some models are equipped with a Smart Card slot.

Right side (Z30-B)

The following figures show the right side of the computer.

Figure 3-3 The right side of the computer (Z30-B)



1. Memory media slot
2. SIM card slot*
3. Universal Serial Bus (USB 3.0) ports
4. LAN jack
5. Security lock slot

* Provided with some models.

Product appearance depends on the model you purchased.



Memory media slot

This slot lets you insert an SD™/SDHC™/SDXC™ memory card, miniSD™/microSD™ Card and MultiMediaCard™. Refer to the [Memory media](#) section for more information.



Keep foreign metal objects, such as screws, staples, and paper clips, out of the Memory media slot. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.



SIM Card slot

This slot allows you insert a SIM card which enables a high-speed access to the Internet, corporate Intranet and your email while you are away from office.

Refer to the [Wireless WAN device](#) section for more information.



Universal Serial Bus (USB 3.0) port

Two Universal Serial Bus ports, which comply to the USB 3.0 standard, are provided on the right side of the computer.

The USB 3.0 port is compliant with USB 3.0 standard and backward compatible with USB 2.0 devices.



- *USB 3.0 port(s) might work as USB 2.0 port(s) when operating in USB Legacy Emulation mode.*
- *Note that it is not possible to confirm the operation of all functions of all USB devices that are available. Some functions associated with a specific device might not operate properly.*
- *Before removing a USB device from the USB port of your computer, click the **Safely Remove Hardware and Eject Media** icon on the Windows Taskbar, and then select the USB device that you want to remove.*



Keep foreign metal objects, such as screws, staples, and paper clips, out of the USB port. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.



LAN jack

This jack lets you connect to a LAN. The adaptor has built-in support for Ethernet LAN (10 megabits per second, 10BASE-T), Fast Ethernet LAN (100 megabits per second, 100BASE-TX) or Gigabit Ethernet LAN (1000 megabits per second, 1000BASE-T). Refer to [Operating Basics](#), for details.



Do not connect any cable other than a LAN cable to the LAN jack. It might cause damage or malfunction.



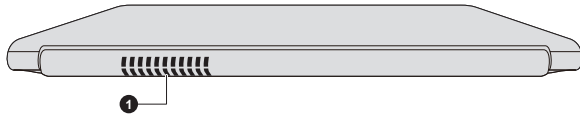
Security lock slot

A security cable can be attached to this slot and then connected to a desk or other large object in order to deter theft of the computer.

Back (Z30-B)

The following figure shows the back of the computer.

Figure 3-4 The back of the computer (Z30-B)



1. Cooling vents

Product appearance depends on the model you purchased.

Cooling vents

The cooling vents help the processor to avoid overheating.



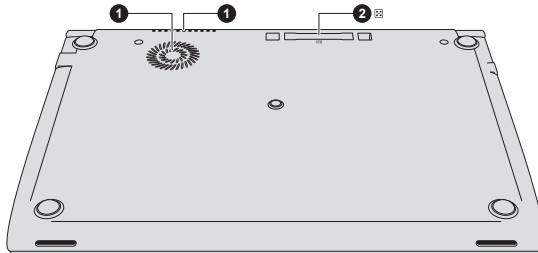
Do not block the cooling vents. Keep foreign metal objects, such as screws, staples and paper clips, out of the cooling vents. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.

Carefully clean the dust on the cooling vents' surface using a soft cloth.

Underside (Z30-B)

The following figures show the underside of the computer. Ensure that the display is closed before the computer is turned over to avoid causing any damage.

Figure 3-5 The underside of the computer (Z30-B)



1. Cooling vents

2. Docking port*

* Provided with some models.

Product appearance depends on the model you purchased.

Cooling vents

The cooling vents help the processor to avoid overheating.



Docking port

This port enables connection of an optional TOSHIBA Hi-Speed Port Replicator III 180W/120W described in [TOSHIBA Hi-Speed Port Replicator III 180W/120W](#).

Some models are equipped with the docking port.

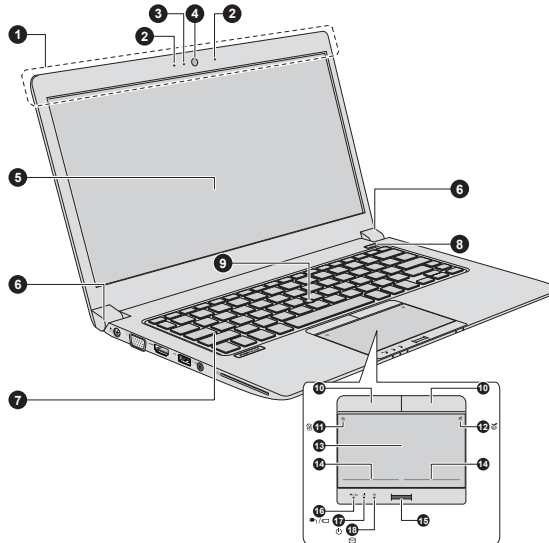


- *Only the TOSHIBA Hi-Speed Port Replicator III 180W or 120W is compatible with the docking port.*
- *Do not attempt to use any other Port Replicator.*
- *Keep foreign objects out of the docking port. A pin or similar object can damage the circuitry of the computer.*

Front with the display open (Z30-B)

This section shows the computer with the display panel open. To open the display, lift up the display panel and position it at a comfortable viewing angle for you.

Figure 3-6 The front of the computer with the display panel open (Z30-B)



- | | |
|---|--------------------------------------|
| 1. Wireless communication antennas (not shown)* | 10. AccuPoint control buttons* |
| 2. Microphones* | 11. Touch Pad ON/OFF indicator |
| 3. Web Camera LED* | 12. TOSHIBA eco indicator |
| 4. Web Camera* | 13. Touch Pad |
| 5. Display screen | 14. Touch Pad control buttons |
| 6. Display hinges | 15. Fingerprint Sensor* |
| 7. Keyboard | 16. DC IN/Battery indicator |
| 8. Power button | 17. Power indicator |
| 9. AccuPoint* | 18. Internal storage drive indicator |

* Provided with some models.

Product appearance depends on the model you purchased.

Wireless communication antennas

Depending on the configuration of your computer, one or all of the following antennas are built-in:

- Wireless LAN
- Wireless LAN/Bluetooth

Legal Footnote (Wireless LAN)

For more information regarding Wireless LAN, refer to the [Legal Footnotes](#) section.

| | |
|-----------------------|---|
| Microphone | The built-in microphone allows you to record sounds for your application. Refer to the Sound System and Video mode section for more information. |
| Web Camera LED | The Web Camera LED glows when the Web Camera is operating. |
| Web Camera | Web Camera is a device that allows you to record video or take photographs with your computer. You can use it for video chatting or video conferences using a communication tool. Some models are equipped with a Web Camera. |



- *Do not point the web camera directly at the sun.*
- *Do not touch or press strongly on the web camera lens. Failure to do so might reduce image quality. Use an eyeglass cleaner (cleaner cloth) or other soft cloth to clean the lens if it becomes dirty.*

| | |
|-----------------------|--|
| Display screen | 33.8 cm (13.3") LCD screen, configured with one of the following resolutions: <ul style="list-style-type: none"> ■ HD, 1366 horizontal x 768 vertical pixels ■ FHD, 1920 horizontal x 1080 vertical pixels <p>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. This difference in brightness levels is intended to save power when operating on batteries.</p> |
|-----------------------|--|

Legal Footnote (LCD)
For more information regarding LCD, refer to the [Legal Footnotes](#) section.

| | |
|-----------------------|---|
| Display hinges | The display hinges allow the display panel to be positioned at a variety of easy-to-view angles. |
| Keyboard | The keyboard contains character keys, control keys, function keys, and special Windows keys, providing all the functionality of a full-size keyboard. Refer to the The Keyboard section for details. |



| | |
|---------------------|---|
| Power button | Press this button to power on/off the computer. |
|---------------------|---|

| | |
|------------------|--|
| AccuPoint | A pointer control device located in the center of the keyboard is used to control the on-screen pointer. Some models are equipped with an AccuPoint. |
|------------------|--|

| | |
|----------------------------------|---|
| AccuPoint control buttons | Control buttons below the keyboard let you select menu items or manipulate text and graphics designated by the on-screen pointer. Only models equipped with an AccuPoint are equipped with AccuPoint control buttons. |
|----------------------------------|---|



| | |
|-----------------------------------|---|
| Touch Pad ON/OFF indicator | Double tap this indicator to enable/disable the Touch Pad. The indicator shows the status of the Touch Pad: <ul style="list-style-type: none">■ Enabled: off■ Disabled: glows white |
|-----------------------------------|---|



| | |
|------------------------------|--|
| TOSHIBA eco indicator | Double tap this indicator to launch the TOSHIBA eco Utility. |
|------------------------------|--|

| | |
|------------------|--|
| Touch Pad | The Touch Pad located in the palm rest is used to control the movement of the on-screen pointer. To use the Touch Pad, simply touch and move your fingertip across it in the direction you want the on-screen pointer to go. |
|------------------|--|

| | |
|----------------------------------|--|
| Touch Pad control buttons | The two buttons located on the bottom of the Touch Pad are used like the buttons on a standard mouse. Press the left button to select a menu item or to manipulate text or graphics designated by the pointer, and press the right button to display a menu or other function depending on the software you are using. |
|----------------------------------|--|

| | |
|---------------------------|---|
| Fingerprint Sensor | This sensor enables you to enroll and recognize a fingerprint. Some models are equipped with a Fingerprint Sensor. |
|---------------------------|---|



| | |
|--------------------------------|---|
| DC IN/Battery indicator | The DC IN/Battery indicator shows the condition of the DC IN and the battery charge status. White indicates the battery is fully charged while the power is being correctly supplied from the AC power adaptor. Refer to the Power Condition Descriptions section for more information on this feature. |
|--------------------------------|---|

**Power indicator**

The **Power indicator** normally glows white when the computer is turned on. However, if you turn the computer off into Sleep Mode, this indicator flashes amber.

**Internal storage drive indicator**

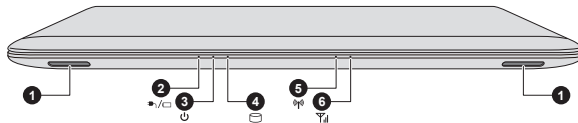
The **Internal storage drive indicator** blinks white whenever the computer is accessing the internal storage drive.

The Grand Tour for Z40-B

Front with the display closed (Z40-B)

The following figure shows the front of the computer with the display panel in the closed position.

Figure 3-7 Front of the computer with display panel closed (Z40-B)



1. Stereo speakers
2. DC IN/Battery indicator
3. Power indicator

4. Internal storage drive indicator
5. Wireless communication indicator
6. Wireless WAN/WiMAX indicator*

* Provided with some models.

Product appearance depends on the model you purchased.

Stereo speakers

The speakers emit sound generated by your software as well as audio alarms, such as low battery condition, generated by the system.

**DC IN/Battery indicator**

The **DC IN/Battery indicator** shows the condition of the DC IN and the battery charge status. White indicates the battery is fully charged while the power is being correctly supplied from the AC power adaptor.

Refer to the [Power Condition Descriptions](#) section for more information on this feature.

**Power indicator**

The **Power indicator** normally glows white when the computer is turned on. However, if you turn off the computer into Sleep Mode, this indicator flashes amber.



Internal storage drive indicator

The **Internal storage drive indicator** blinks white whenever the computer is accessing the internal storage drive.



Wireless communication indicator

The **Wireless communication indicator** glows amber when the Wireless functions are turned on.

Some models are equipped with Wireless functions.



The Wireless LAN function can be enabled when airplane mode is turned on. However, the wireless communication indicator does not glow.



Wireless WAN/WiMAX indicator

The **Wireless WAN/WiMAX indicator** glows blue when the Wireless WAN/WiMAX functions are turned on.

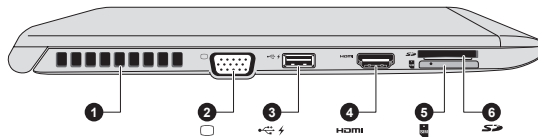
For some models, the indicator glows and blinks to indicate the connection status of the Wireless WAN/WiMAX function.

Some models are equipped with the Wireless WAN/WiMAX function.

Left side (Z40-B)

The following figures show the left side of the computer.

Figure 3-8 The left side of the computer (Z40-B)



1. Cooling vents
2. External RGB monitor port
3. Universal Serial Bus (USB 3.0) port
4. HDMI out port*
5. SIM card slot*
6. Memory media slot

* Provided with some models.

Product appearance depends on the model you purchased.

Cooling vents

The cooling vents help the processor to avoid overheating.



External RGB monitor port

This port provides 15-pin, analog RGB port. Refer to the [External RGB monitor port pin assignment](#) section for information on external RGB monitor port pin assignment. This port allows you to connect an external RGB monitor to the computer.



Universal Serial Bus (USB 3.0) port

One Universal Serial Bus port, which complies to the USB 3.0 standard, is provided on the left side of the computer.

The USB 3.0 port is compliant with USB 3.0 standard and backward compatible with USB 2.0 devices.



- *USB 3.0 port(s) might work as USB 2.0 port(s) when operating in USB Legacy Emulation mode.*
- *Note that it is not possible to confirm the operation of all functions of all USB devices that are available. Some functions associated with a specific device might not operate properly.*
- *Before removing a USB device from the USB port of your computer, click the **Safely Remove Hardware and Eject Media** icon on the Windows Taskbar, and then select the USB device that you want to remove.*



Keep foreign metal objects, such as screws, staples, and paper clips, out of the USB port. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.



HDMI out port

HDMI out port can connect with Type A connector HDMI cable.

Some models are equipped with an HDMI out port.



SIM Card slot

This slot allows you insert a SIM card which enables a high-speed access to the Internet, corporate Intranet and your email while you are away from office.

Refer to the [Wireless WAN device](#) section for more information.



Memory media slot

This slot lets you insert an SD™/SDHC™/SDXC™ memory card, miniSD™/microSD™ Card and MultiMediaCard™. Refer to the [Memory media](#) section for more information.

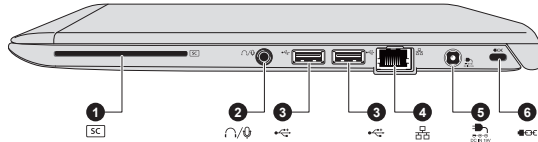


Keep foreign metal objects, such as screws, staples and paper clips, out of the Memory media slot. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.

Right side (Z40-B)

The following figures show the right side of the computer.

Figure 3-9 The right side of the computer (Z40-B)



- | | |
|---|-----------------------|
| 1. Smart Card slot* | 4. LAN jack |
| 2. Headphone/Microphone jack | 5. DC IN 19V jack |
| 3. Universal Serial Bus (USB 3.0) ports | 6. Security lock slot |

* Provided with some models.

Product appearance depends on the model you purchased.



Smart Card slot

This slot allows you to install a Smart Card device.

Some models are equipped with a Smart Card slot.



Headphone/ Microphone jack

A 3.5 mm mini headphone/microphone jack enables connection of a monaural microphone or a stereo headphone.



Universal Serial Bus (USB 3.0) ports

Two Universal Serial Bus ports, which comply to the USB 3.0 standard, are provided on the right side of the computer.

The USB 3.0 port is compliant with USB 3.0 standard and backward compatible with USB 2.0 devices.



- *USB 3.0 port(s) might work as USB 2.0 port(s) when operating in USB Legacy Emulation mode.*
- *Note that it is not possible to confirm the operation of all functions of all USB devices that are available. Some functions associated with a specific device might not operate properly.*

- Before removing a USB device from the USB port of your computer, click the **Safely Remove Hardware and Eject Media** icon on the Windows Taskbar, and then select the USB device that you want to remove.



Keep foreign metal objects, such as screws, staples, and paper clips, out of the USB port. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.



LAN jack

This jack lets you connect to a LAN. The adaptor has built-in support for Ethernet LAN (10 megabits per second, 10BASE-T), Fast Ethernet LAN (100 megabits per second, 100BASE-TX) or Gigabit Ethernet LAN (1000 megabits per second, 1000BASE-T). Refer to [Operating Basics](#), for details.



Do not connect any cable other than a LAN cable to the LAN jack. It might cause damage or malfunction.



DC IN 19V jack

The AC adaptor connects to this jack to power the computer and charge its internal batteries. Note that you must only use the model of AC adaptor supplied with the computer at the time of purchase. Using the wrong AC adaptor can damage the computer.



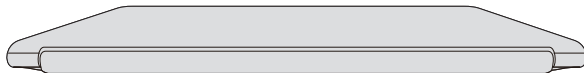
Security lock slot

A security cable can be attached to this slot and then connected to a desk or other large object in order to deter theft of the computer.

Back (Z40-B)

The following figure shows the back of the computer.

Figure 3-10 The back of the computer (Z40-B)

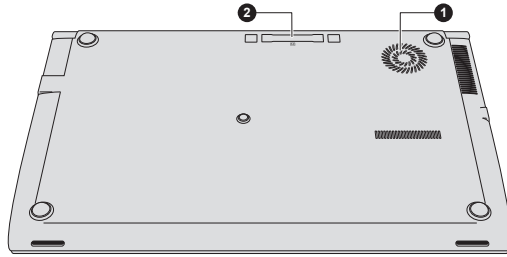


Product appearance depends on the model you purchased.

Underside (Z40-B)

The following figures show the underside of the computer. Ensure that the display is closed before the computer is turned over to avoid causing any damage.

Figure 3-11 The underside of the computer (Z40-B)



1. Cooling vents

2. Docking port*

* Provided with some models.

Product appearance depends on the model you purchased.

Cooling vents

The cooling vents help the processor to avoid overheating.



Docking port

This port enables connection of an optional TOSHIBA Hi-Speed Port Replicator III 180W/120W described in [TOSHIBA Hi-Speed Port Replicator III 180W/120W](#).

Some models are equipped with the docking port.

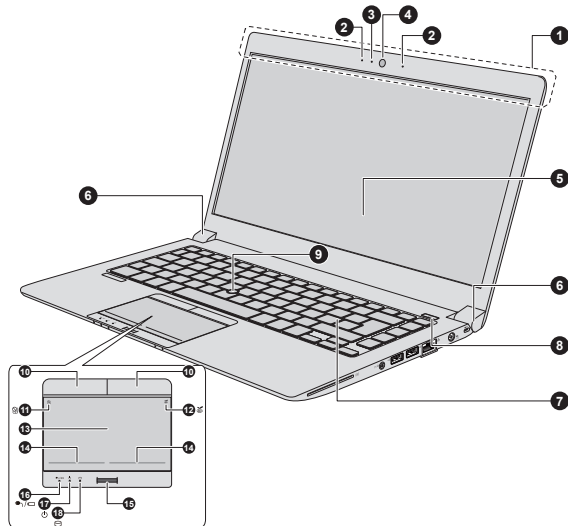


- *Only the TOSHIBA Hi-Speed Port Replicator III 180W or 120W is compatible with the docking port.*
- *Do not attempt to use any other Port Replicator.*
- *Keep foreign objects out of the docking port. A pin or similar object can damage the circuitry of the computer.*

Front with the display open (Z40-B)

This section shows the computer with the display panel open. To open the display, lift up the display panel and position it at a comfortable viewing angle for you.

Figure 3-12 The front of the computer with the display panel open (Z40-B)



- | | |
|---|--------------------------------------|
| 1. Wireless communication antennas (not shown)* | 10. AccuPoint control buttons |
| 2. Microphones* | 11. Touch Pad ON/OFF indicator |
| 3. Web Camera LED* | 12. TOSHIBA eco indicator |
| 4. Web Camera* | 13. Touch Pad |
| 5. Display screen | 14. Touch Pad control buttons |
| 6. Display hinges | 15. Fingerprint Sensor* |
| 7. Keyboard | 16. DC IN/Battery indicator |
| 8. Power button | 17. Power indicator |
| 9. AccuPoint | 18. Internal storage drive indicator |

* Provided with some models.

Product appearance depends on the model you purchased.

Wireless communication antennas

Depending on the configuration of your computer, one or all of the following antennas are built-in:

- Wireless LAN
- Wireless LAN/Bluetooth

Legal Footnote (Wireless LAN)

For more information regarding Wireless LAN, refer to the [Legal Footnotes](#) section.

Microphone

The built-in microphone allows you to record sounds for your application. Refer to the [Sound System and Video mode](#) section for more information.

Web Camera LED

The **Web Camera LED** glows when the Web Camera is operating.

Web Camera

Web Camera is a device that allows you to record video or take photographs with your computer. You can use it for video chatting or video conferences using a communication tool. Some models are equipped with a Web Camera.



- *Do not point the web camera directly at the sun.*
- *Do not touch or press strongly on the web camera lens. Failure to do so might reduce image quality. Use an eyeglass cleaner (cleaner cloth) or other soft cloth to clean the lens if it becomes dirty.*

Display screen

35.6 cm (14.0") LCD screen, configured with the following resolutions:

- FHD, 1920 horizontal x 1080 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. This difference in brightness levels is intended to save power when operating on batteries.

Legal Footnote (LCD)

For more information regarding LCD, refer to the [Legal Footnotes](#) section.

Display hinges

The display hinges allow the display panel to be positioned at a variety of easy-to-view angles.

Keyboard

The keyboard contains character keys, control keys, function keys, and special Windows keys, providing all the functionality of a full-size keyboard.

Refer to the [The Keyboard](#) section for details.



Power button

Press this button to power on/off the computer.

AccuPoint

A pointer control device located in the center of the keyboard is used to control the on-screen pointer.

AccuPoint control buttons

Control buttons below the keyboard let you select menu items or manipulate text and graphics designated by the on-screen pointer.



Touch Pad ON/OFF indicator

Double tap this indicator to enable/disable the Touch Pad.

The indicator for some models shows the status of the Touch Pad:

- Enabled: off
- Disabled: glows white



TOSHIBA eco indicator

Double tap this indicator to launch the TOSHIBA eco Utility.

Touch Pad

The Touch Pad located in the palm rest is used to control the movement of the on-screen pointer.

To use the Touch Pad, simply touch and move your fingertip across it in the direction you want the on-screen pointer to go.

Touch Pad control buttons

The two buttons located on the bottom of the Touch Pad are used like the buttons on a standard mouse. Press the left button to select a menu item or to manipulate text or graphics designated by the pointer, and press the right button to display a menu or other function depending on the software you are using.

Fingerprint Sensor

This sensor enables you to enroll and recognize a fingerprint. Some models are equipped with a Fingerprint Sensor.



DC IN/Battery indicator

The **DC IN/Battery indicator** shows the condition of the DC IN and the battery charge status. White indicates the battery is fully charged while the power is being correctly supplied from the AC power adaptor.

Refer to the [Power Condition Descriptions](#) section for more information on this feature.



Power indicator

The **Power indicator** normally glows white when the computer is turned on. However, if you turn off the computer into Sleep Mode, this indicator flashes amber.



Internal storage drive indicator

The **Internal storage drive indicator** blinks white whenever the computer is accessing the internal storage drive.

Internal Hardware Components

This section describes the internal hardware components of your computer. The actual specifications might vary depending on the model you purchased.

Battery pack

This computer includes a battery pack inside.

However, do not attempt to dismount or replace it by yourself. Contact an authorized TOSHIBA service provider, if necessary.

The rechargeable lithium-ion battery pack provides power to the computer when the AC adaptor is not connected.

For more detailed information on the use and operation of the battery pack, refer to the [Battery](#) section.

Legal Footnote (Battery Life)

For more information regarding Battery Life, refer to the [Legal Footnotes](#) section.

CPU

The processor type varies depending on model.

To check which type of processor is included in your model, open the TOSHIBA PC Health Monitor utility by clicking **PC Health Monitor** under **TOSHIBA** group in the Apps view, and then click **PC Information**.

Legal Footnote (CPU)

For more information regarding CPU, refer to the [Legal Footnotes](#) section.

Internal Storage Drive

The capacity of the internal storage drive varies depending on the model.

To check which type of internal storage drive is included in your model, open the TOSHIBA PC Health Monitor utility by clicking **PC Health Monitor** under **TOSHIBA** group in the Apps view, and then click **PC Information**.

Note that part of the hard disk overall capacity is reserved as administration space.



SSD is a large-capacity storage device which uses Solid-State Memory in place of a magnetic disk of the hard disk.



Under certain unusual conditions of prolonged non-use and/or exposure to high temperatures, the SSD might be vulnerable to data retention errors.

Legal Footnote (Internal Storage Drive Capacity)

For more information regarding internal storage drive capacity, refer to the [Legal Footnotes](#) section.

Video RAM

The memory in the graphics adaptor of the computer, used to store the image displayed on a bitmap display.

The amount of Video RAM available depends on the system memory of the computer.

Click **Control Panel -> Appearance and Personalization -> Display -> Adjust resolution** under **Windows System** group in the Apps view.

The amount of Video RAM can be verified by clicking the **Advanced settings** button in the Screen Resolution window.

Graphics Processing Unit

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.

Legal Footnote (Graphics Processing Unit (GPU))

For more information regarding Graphics Processing Unit (GPU), refer to the [Legal Footnotes](#) section.

NVIDIA Graphic Control

Some NVIDIA graphics models might include NVIDIA® Optimus™ technology feature.

NVIDIA® Optimus™ technology intelligently optimizes notebook performance by seamlessly switching between a discrete NVIDIA GPU for great graphics performance and an Intel integrated graphics chip for sustained battery life. Switching is automatic and does not require the user to reboot the computer.

In the Manage 3D Settings menu of NVIDIA Control Panel, you can change the global 3D settings and create overrides for specific programs. The

overrides will be used automatically each time the specified programs are launched.



- Use the default setting for NVIDIA Optimus technology.
 - If the program does not run normally after the setting has been changed, restore the program to the default setting.
 - If the program does not run normally, restore the **Preferred graphics processor** to the default setting.
 - When you use some video playback programs to play video files, the preferred graphics processor in the "Program Settings" tab cannot be changed to the graphics other than "Integrated Graphics".
- To access the Program Settings, click "NVIDIA Control Panel" -> "Manage 3D settings" -> "Program Settings".

To launch the NVIDIA Control Panel, Click **Control Panel -> Hardware and Sound -> NVIDIA Control Panel** under **Windows System** group in the Apps view.

For more information about the NVIDIA Control Panel system, refer to the NVIDIA Control Panel Help. To access it, click **Help** from the main menu and then select **NVIDIA Control Panel Help**.



On Optimus models, two kinds of Display Drivers are installed: "Intel® HD Graphics Driver" and "NVIDIA Graphics Driver XXX.XX".

Do not uninstall the display driver from "Uninstall Program" in the Control Panel.

To uninstall the display driver:

1. Uninstall "NVIDIA Graphics Driver XXX.XX".
2. Then uninstall "Intel® HD Graphics Driver".

Intel® Display Power Saving Technology

Intel GPU models might include the Display Power Saving Technology feature that can save the power consumption of the computer by optimizing picture contrast on the internal LCD.

This feature can be used if the computer is:

- running under battery mode
- using the internal LCD display only

The Display Power Saving Technology feature is enabled as the factory default. If you want to turn off this feature, change it in the settings accordingly in the Intel® HD Graphics Control Panel.

You can access this control panel in the following way:

1. Right-click on the desktop and click **Graphics Properties...**

2. Click **Power** and then select **On Battery** from the drop-down menu under **Power** in the upper-left corner.
3. Click **Disable** under **Display Power Saving Technology**.
4. Click **Apply**.

If you want to enable this feature, click **Enable** under **Display Power Saving Technology**.

Power Condition Descriptions

The computer operating capability and battery charge status are affected by different power conditions, including whether an AC adaptor is connected and what the battery charge level is.

DC IN/Battery indicator

Check the **DC IN/Battery** indicator to determine the status of the battery pack and the power status with the AC adaptor connected. The following indicator conditions should be noted:

| | |
|-----------------------|--|
| Flashing Amber | The battery charge is low. The AC adaptor must be connected to recharge the battery. |
| Amber | Indicates that the AC adaptor is connected and the battery is charging. |
| White | Indicates that the AC adaptor is connected and the battery is fully charged. |
| Flashing White | Indicates a problem with the computer. Disconnect the AC adaptor for several seconds, and reconnect the AC adaptor. If it still does not operate properly, you should contact your reseller or dealer. |
| No light | Under any other conditions, the indicator does not light. |



*If the battery pack becomes too hot while it is being charged, the charge stops and the **DC IN/Battery** indicator goes out. When the temperature of the battery pack falls to a normal range, charging will resume. This process occurs regardless of whether the computer's power is on or off.*

Power indicator

Check the **Power** indicator to determine the power status of the computer. The following indicator conditions should be noted:

| | |
|--------------|--|
| White | Indicates that power is being supplied to the computer, and the computer is turned on. |
|--------------|--|

| | |
|-----------------------|---|
| Flashing Amber | Indicates that the computer is in Sleep Mode and that there is sufficient power available (AC adaptor or battery) to maintain this condition. |
| No light | Under any other conditions, the indicator does not light. |

Chapter 4

Operating Basics

This chapter describes the basic operations of your computer, and highlights the precautions that must be taken when using it.

Using the Touch Screen

Some models are equipped with a touch screen.

You can use your finger to manipulate icons, buttons, menu items, the on-screen keyboard, and other items on the touch screen.



Tap

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. This shows information to help you learn more about an item or opens a menu specific to what you are doing.



Pinch or stretch

Touch the screen or an item with two or more fingers, and then move the fingers toward each other (pinch) or away from each other (stretch). This shows different levels of information or visually zooms in or out.



Rotate

Put two or more fingers on an item and then turn your hand to rotate things in the direction you turn your hand. Only some items can be rotated.



Slide

Drag your finger on the touch screen to move through what is on the screen.



Swipe

Quickly move your finger in from the edge of the screen, without pausing when you first touch it.

Swipe from the left edge: shows your recently opened apps, and so on.

Swipe from the right edge: opens or closes the charms (Search, Share, Start, Devices, Settings).

Swipe from the top edge: opens or closes the app command bar.

For details and more advanced touch screen gestures to interact with Windows operating system, refer to Help and Support.

Using the Touch Pad

The Touch Pad on the palm rest might support the following gestures:



Tap

Tap once on the Touch Pad to activate an item, such as an app.



Two-Finger Tap

Tap once on the Touch Pad with two fingers together to display a menu or other function depending on the software you are using. (Similar to right-click)



Pinch or stretch

Place two or more fingers down on the Touch Pad and move them toward each other (pinch) or away from each other (stretch). This shows different levels of information or visually zooms in or out.



Two-Finger Scroll

Place two fingers down and slide them vertically or horizontally from anywhere on the Touch Pad. This allows you to operate the scroll bars of a window.



Swipe

Quickly move your finger in from the edge of the Touch Pad, without pausing when you first touch it.

Swipe from the left edge: shows your recently opened apps.

Swipe from the right edge: opens or closes the charms (Search, Share, Start, Devices, Settings).

Swipe from the top edge: opens or closes the app command bar.



Do not put items on the Touch Pad surface to prevent abnormal action.



Some of the Touch Pad operations described in this section are only supported in certain applications.

The Keyboard

The number of keys available on your keyboard depends on which country/region your computer is configured for, with keyboards being available for numerous languages.

There are different types of keys, specifically typewriter keys, function keys, soft keys, Windows special keys, and the keypad overlay.



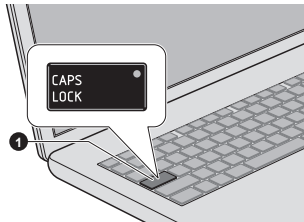
Never remove the key caps on your keyboard. Failure to do so might damage the parts under the key caps.

Keyboard indicator

The following figure shows the position of the **CAPS LOCK** indicator.

When the **CAPS LOCK** indicator glows, the keyboard produces capitals when any letter is typed.

Figure 4-1 CAPS LOCK indicator



1. CAPS LOCK indicator

Product appearance depends on the model you purchased.

CAPS LOCK

This indicator glows green when letter keys are locked into their uppercase format.


Function Key

The function keys (F1 ~ F12) are the 12 keys at the top of your keyboard.



Function keys let you enable or disable certain features of the computer. The functions can be performed by pressing the associated function keys.

| Key Combination | Function |
|------------------------|---|
| FN + F1 | Enters "Lock computer mode". To restore your desktop, you need to log on again. |
| FN + F2 | Switches between the power plans. |
| FN + F3 | Switches the system to Sleep Mode. |
| FN + F4 | Switches the system to Hibernation Mode. |
| FN + F5 | Changes the active display device. To use a simultaneous mode, you must set the resolution of the internal display panel to match the resolution of the external display device. |
| FN + F6 | Decreases the brightness of the display panel in individual steps. |
| FN + F7 | Increases the brightness of the display panel in individual steps. |
| FN + F8 | Turns the Airplane mode on or off. |
| FN + F9 | Enables or disables the Touch Pad. |
| FN + F10 | Turns on Arrow Mode. |
| FN + F11 | Turns on Numeric Mode. |
| FN + F12 | Locks the cursor on a specific line. |
| FN + ESC | Turns the sound on or off. |
| FN + 1 | Reduces the icon size on the desktop or the font sizes within one of the supported application windows. |
| FN + 2 | Enlarges the icon size on the desktop or the font sizes within one of the supported application windows. |
| FN + 3 | Decreases the volume of the computer. |
| FN + 4 | Increases the volume of the computer. |
| FN + 5 | Switches between available cooling methods for the current power plan. This function is supported with some models. |
| FN + Space | Changes the display resolution. |

| Key Combination | Function |
|--|--|
| FN + Z () | <p>Toggles the mode of the keyboard backlight between Timer, On, and Off.</p> <p>To set up the brightness, click System Settings under TOSHIBA group in the Apps view. Click Keyboard tab, and select a level under Keyboard Backlight Brightness Control.</p> <p>To set up the timer, launch the BIOS setup utility, select Power Management -> Keyboard Backlight Control Mode, and select TIMER. Adjust the timer under Backlight Lighting Time.</p> <p>This function is supported with some models.</p> |



*Some functions show the toast notification at the edges of the screen. Those toast notifications are disabled by default. You can enable them in the TOSHIBA Function Key application. To access it, click **Function Key** under **TOSHIBA** group in the Apps view.*

Windows special keys

The keyboard provides two keys that have special functions in Windows, the Windows logo key activates the **Start screen** while the application key has the same function as the secondary (right) mouse button.



This key activates the Windows **Start screen**.



This key has the same function as the secondary (right) mouse button.

Using the AccuPoint

To use the AccuPoint, simply push it with your finger tip in the direction you want to move the on-screen pointer.

Two buttons above the Touch Pad work in the same way with the AccuPoint as they do with the Touch Pad.

Some models are equipped with an AccuPoint.

AccuPoint precautions

Certain conditions can affect the on-screen pointer when using AccuPoint. For example, the pointer might travel contrary to AccuPoint operation or an error message might appear, if

- You touch the AccuPoint during power-up.

- You apply constant, soft pressure during power-up.
- There is a sudden temperature change.
- Strong stress is applied to the AccuPoint.

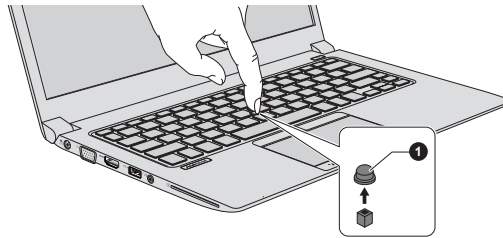
If an error message appears, reboot the computer. If an error message does not appear, wait a moment for the pointer to stop, then continue operation.

Replacing the cap

The AccuPoint cap is an expendable item that should be replaced after prolonged use. The spare AccuPoint cap is supplied with some models.

1. To remove the AccuPoint cap, gently dig the cap out (with finger).

Figure 4-2 Removing the AccuPoint cap (Z30-B)



1. AccuPoint cap

Product appearance depends on the model you purchased.

2. Position a new cap on the peg and press it into place.



- *The peg is square, so be careful to align the cap's square hole with the peg.*
- *You can buy replacement AccuPoint caps from your TOSHIBA authorized dealer.*

Using the Fingerprint Sensor

This product has a fingerprint utility installed for the purpose of enrolling and recognizing fingerprints. By enrolling the ID and password onto the fingerprint authentication feature, it is no longer necessary to input the password from the keyboard. Fingerprint feature enables you to:

- Logon to Windows and access a security enabled homepage through Internet Explorer.
- Files and folders can be encrypted/decrypted and third party access to them prevented.
- Unlock the password-protected screen-saver.
- Authentication of the User Password (and, if applicable, the HDD/SSD Password) when booting up the computer (Pre-Boot authentication).
- Single Sign-On feature



Fingerprint cannot be used in models that do not have a fingerprint module installed.

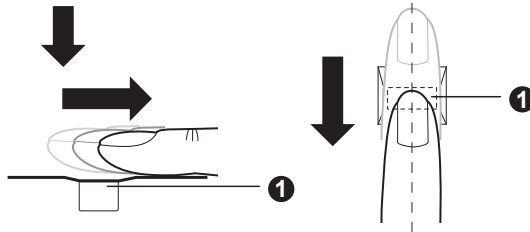
How to Swipe your Finger

Using the following steps when swiping fingers for fingerprint registration or authentication can help to minimize authentication failures:

Align the first joint of the finger to the center of the sensor. Lightly touch the sensor and swipe finger levelly towards you until the sensor surface becomes visible. In performing this process, you should also take care to ensure that the center of your fingerprint is on the sensor.

The following illustrations show the recommended way to swipe your finger over the fingerprint sensor.

Figure 4-3 Swipe the finger



1. Sensor



- *Avoid swiping with your finger stiff or pressed too hard onto the sensor, and take care to ensure that the center of the fingerprint is touching the sensor before swiping. Either of these conditions might cause fingerprint reading to fail.*
- *Check the center of the fingerprint whorl before swiping and then ensure this is swiped along the center line of the sensor.*
- *There is a possibility of authentication failures if the finger is swiped too quickly or too slowly. Follow any on-screen instructions to adjust the speed used during the swipe process.*

Points to note about the Fingerprint Sensor

Be aware of the following considerations when using the fingerprint sensor. A failure to follow these guidelines might result in damage to the sensor, sensor failure, fingerprint recognition problems or a lower fingerprint recognition success rate.

- Do not scratch or poke the sensor with your nails or any hard or sharp objects.
- Do not press the sensor strongly.

-
- Do not touch the sensor with a wet finger or any wet objects. Keep the sensor surface dry and free from water vapor.
 - Do not touch the sensor with a soiled or dirty finger as minute foreign particles of dust and dirt might scratch it.
 - Do not paste stickers or write on the sensor.
 - Do not touch the sensor with a finger or any other object which might have a build-up of static electricity on it.

Observe the following before you place your finger on the sensor whether for fingerprint enrollment/registration or recognition.

- Wash and dry your hands thoroughly.
- Remove static electricity from your fingers by touching any metal surface. Static electricity is a common cause of sensor failures, especially when the weather is dry.
- Clean the sensor with a lint-free cloth. Do not use detergent or any other chemicals to clean the sensor.

Avoid the following finger conditions for enrollment or recognition as they might result in fingerprint enrollment errors or a drop in the fingerprint recognition success rate

- Soaked or swollen finger, for example as might occur after taking a bath.
- Injured finger
- Wet finger
- Soiled or oily finger
- Extremely dry skin condition on finger

Observe the following to improve the fingerprint recognition success rate.

- Enroll two or more fingers.
- Enroll additional fingers if a recognition failure often occurs when using already enrolled fingers.
- Check the condition of your finger. Any conditions which have changed since enrollment, such as injury, rough skin, and extremely dry, wet, soiled, dirty, oily, soaked or swollen fingers, might lower the recognition success rate. Also if the fingerprint is worn down or the finger becomes thinner or fatter, the recognition success rate might be lowered.
- As the fingerprint for each finger is different and unique you should ensure that only the registered or enrolled fingerprint or fingerprints are used for identification.
- Check the position and speed at which you swipe your finger across the sensor. Refer to the preceding drawing.
- The fingerprint sensor compares and analyzes the unique characteristics in a fingerprint. However, there might be instances where certain users are unable to register their fingerprints due to insufficient unique characteristics in their fingerprints.
- The recognition success rate might differ from user to user.

Points to note about Fingerprint Utility

- If Windows file encryption function EFS (Encryption File System) is used to encrypt a file, the file cannot be further encrypted using the encryption function of this software.
- You can back up the fingerprint data or the information registered to Web Site Passwords.
- Use Import/Export in TOSHIBA Fingerprint Utility main menu.
- Also refer to the fingerprint utility Help file for more information by clicking ? in TOSHIBA Fingerprint Utility main menu.

Fingerprint utility limitations

TOSHIBA does not guarantee that the fingerprint utility technology will be completely secure or error-free, or that it 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.



- *The fingerprint sensor compares and analyzes the unique characteristics in a fingerprint. However, there might be instances where certain users are unable to register their fingerprints due to insufficient unique characteristics in their fingerprints.*
- *The recognition success rate might differ from user to user.*

Set up Fingerprint Registration

Use the following procedure when first using fingerprint authentication.



- *In use, the fingerprint authentication system uses the same username and password as defined within the Windows operating system. If no Windows password has been configured, you must do this before starting the fingerprint registration process.*
- *This sensor has the memory space for at least twenty fingerprint patterns. You might be able to register more fingerprint patterns depending on the sensor memory usage.*

1. Click **Fingerprint Utility** under **TOSHIBA** group in the Apps view.
2. The **Enroll** screen is displayed. Enter the current account password into the **Windows Password** field. If no Windows password has been configured, you will be asked to configure the new logon password. Then click **Next**.
3. Click the non-enrolled finger you want to register and then click **Next**.
4. The instructions for enrollment operation screen is displayed. Carefully read them and then click **Next**.
5. The scanning practice screen is displayed. You are able to practice swiping (three times) your finger to ensure you use the correct method. When you have finished practicing swiping your finger, click **Next**.

6. Swipe four times with the same finger. If scanning of fingerprint succeeds, "Enrollment succeeded! Do you want to save this fingerprint?" message box appears. Click **OK**.
7. The following message appears: "It's strongly recommended you enroll one more fingerprint.". Click **OK** and repeat Step 3, 4, 5 and 6 with another finger.



- *It is strongly recommended that you register 2 or more fingerprints.*
- *You cannot enroll the same fingerprint more than once, even on a different user account.*

Delete the Fingerprint Data

Saved fingerprint data is stored in special non-volatile memory inside the fingerprint sensor. Therefore, if you give the computer to someone else, or dispose of it in any way, please uninstall the application or delete all the logs created by the application.

Delete the fingerprint data for the currently logged in user

1. In the **TOSHIBA Fingerprint Utility** main menu, select **Fingerprint Enroll**.
2. In the **Fingerprint Enroll** window, it enables you to delete the fingerprint data for the currently logged in user. Click an enrolled finger you want to delete. "Do you want to delete?" message box appears on the screen and then click **OK**. If you want to delete other fingerprints, repeat this step. If only one fingerprint is registered, the message "At least one fingerprint is required." appears after clicking **OK**. You are not allowed to delete a unique fingerprint.
3. Click **Close**.
4. "Do you want to quit?" is displayed. Click **OK**. It will be returned to the **TOSHIBA Fingerprint Utility** main menu.

Delete all users fingerprints

1. In the **TOSHIBA Fingerprint Utility** main menu, click **Run as administrator**.
2. User Account Control window is displayed. Click **Yes**.
3. Swipe your enrolled finger.
4. Select **Fingerprint Management** option.
5. A list of fingerprint information for all users is shown in the screen. Click the enrolled fingerprint data you want to delete, and then click **Delete Selected Items**.
6. "Do you want to delete the selected fingerprints?" message box appears on the screen. Click **OK**.
7. Click **Close**.
8. "Do you want to quit?" is displayed. Click **OK**. It will be returned to the **TOSHIBA Fingerprint Utility** main menu.

Windows Logon via Fingerprint Authentication

In place of the usual Windows logon by ID and password, fingerprint authentication also allows logon to Windows.

This is useful especially when many users are using the PCs, as user selection can be skipped.

Fingerprint Authentication Procedure

1. Start up the computer.
2. The Logon Authorization screen is displayed. Choose any of the enrolled fingers and swipe the fingerprint on the sensor. If authentication is successful, the user will be logged on to Windows.



- *If the fingerprint authentication fails, please logon using the Windows logon password.*
- *A warning message will be displayed when authentication is abnormal or authentication is not successful within a fixed duration.*

Fingerprint Pre-Boot authentication and Single Sign-On feature

Overview about Fingerprint Pre-Boot authentication

The fingerprint authentication system can be used to replace the keyboard based User Password authentication system when booting up.

If you do not want to use the fingerprint authentication system for password authentication when booting up, but prefer to use the keyboard-based system instead, follow the on-screen instructions when the Fingerprint System Authentication screen is displayed. This will switch the password input screen across to the keyboard-based one.



- *You must ensure that you use the TOSHIBA Password Utility to register a User Password before using the Fingerprint Pre-Boot authentication and its extended function to allow fingerprints to be used to access the computer when it is turned on.*
- *When swiping your finger, ensure that you do it slowly and at a constant speed. If you find that this does not improve the authentication rate, you should try to adjust the speed at which the finger is swiped.*
- *If there are any changes in the environment or settings related to authorization, you will be required to provide authorization information such as a User Password (and, if applicable, the HDD/SSD Password).*

Overview about Fingerprint Single Sign-On feature

This is a feature that allows the user to complete the authentication for both the User/BIOS Password (and, if applicable, the HDD/SSD Password) and logging onto Windows using only one fingerprint authentication when booting up.

It is necessary to register the User/BIOS Password and Windows Logon Password before using the Fingerprint Pre-Boot authentication and this Fingerprint Single Sign-On Feature. Use the TOSHIBA Password Utility to register your User/BIOS Password. If Windows Logon is not the default for your system, see Manual to register your Windows Logon Password.

Only one fingerprint authentication is required to replace the User/BIOS Password (and, if applicable, the HDD/SSD Password) and the Windows Logon Password.

How to Enable Fingerprint Pre-Boot authentication and Single Sign-On feature

It is necessary to first enroll your fingerprint with the TOSHIBA Fingerprint Utility prior to enabling and configuring the Pre-Boot authentication and Single Sign-On feature. You should check that your fingerprint is enrolled before configuring the settings.

1. Logon as Administrator (means a user has administrator privileges).
2. In the **TOSHIBA Fingerprint Utility** main menu, click **Run As Administrator**.
3. User Account Control window is displayed. Click **Yes**.
4. Swipe your finger across the fingerprint sensor.
5. Select **Setting** in the main menu to open the Setting window. You can:
Select **Pre-Boot authentication** check box if you want to use the fingerprint Pre-Boot authentication feature.
Select **Pre-Boot authentication** and **Single Sign-On** check boxes if you want to use the Single Sign-On feature.
6. Click **Apply**.
7. "Save successfully" is displayed. Click **OK**.
8. Click **Close**.
9. "Do you want to quit?" is displayed. Click **OK**. It will be returned to the **TOSHIBA Fingerprint Utility** main menu.

This modified configuration for fingerprint Pre-Boot authentication and Single Sign-On feature becomes effective the next time the system is booted up.

Battery

This section explains battery types, use, recharging methods and handling.

Battery types

The computer has different types of batteries:

Battery pack

When the AC adaptor is not connected, the main power source of the computer is the lithium-ion battery, also referred to in this manual as the main battery.

Real-Time Clock (RTC) function

The Real-Time Clock (RTC) function is supported. The battery pack provides power for the internal real-time clock and calendar function and also maintains the system configuration while the computer is turned off. If the RTC lasting time completely runs out, the system will lose this information and the real-time clock and calendar will stop working.

You can change the Real-Time Clock settings in the BIOS setup utility. Refer to [Troubleshooting](#) for further information.

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.



- *The battery pack can explode if not replaced, used, handled or disposed of properly. Use only batteries recommended by TOSHIBA as replacements.*
- *Charge the battery pack only in an ambient temperature from 5 through 35 degrees Celsius. Otherwise, the electrolyte solution might leak, battery pack performance might deteriorate, and the battery life might be shortened.*

Charging the batteries

When the power in the battery pack becomes low, the **DC IN/Battery** indicator flashes amber to indicate that only a few minutes of battery power remain. If you continue to use the computer while the **DC IN/Battery** indicator flashes, the computer enters Hibernation Mode so that you do not lose any data, and automatically turn itself off.

You must recharge the battery pack when it becomes discharged.

Procedures

To recharge a battery pack, connect the AC adaptor to the DC IN 19V jack and plug the other end into a working outlet. The **DC IN/Battery** indicator glows amber while the battery is being charged.

Charging Time

Refer to User Information Guide about charging time.

Charging notice

The battery might not begin charging immediately under the following conditions:

- The battery is extremely hot or cold (if the battery is extremely hot, it might not charge at all). To ensure the battery charges to its full capacity, charge it at room temperature of between 5°C to 35°C (41 - 95°F).
- The battery is nearly completely discharged. In this instance, leave the AC adaptor connected for a few minutes and the battery should begin charging.

The **DC IN/Battery** indicator might show a rapid decrease in battery operating time when you try to charge a battery under the following conditions:

- The battery has not been used for a long time.
- The battery has completely discharged and been left in the computer for a long time.

In such cases, do the following:

1. Fully discharge the battery with the power on until the system automatically turns itself off.
2. Connect the AC adaptor to the DC IN 19V jack of the computer, and to a wall outlet that is supplying power.
3. Charge the battery until the **DC IN/Battery** indicator glows white.

Repeat these steps two or three times until the battery recovers normal capacity.

Monitoring battery capacity

Remaining battery power can be monitored using the following methods:

- Clicking the battery icon on the Windows Taskbar
- Via the Battery Status in the Windows Mobility Center window



- *Wait several seconds to monitor the remaining operating time because the computer needs time to check the remaining capacity of the battery pack and then calculate the remaining operating time, based on this together with the current power consumption.*
- *Be aware that the actual remaining operating time might differ slightly from the calculated time.*

-
- *With repeated discharges and recharges, the battery capacity will gradually decrease. In view of this, it is noted that an often used, older battery will not operate for as long as a new battery even when both are fully charged.*

Maximizing battery operating time

The usefulness of a battery depends on how long it can supply power on a single charge, while how long the charge lasts in a battery depends on:

- Processor speed
- Screen brightness
- System Sleep Mode
- System Hibernation Mode
- Display power off period
- Internal storage drive power off period
- How often and for how long you use the internal storage drive and external disk drives, for example, optical disc
- How much charge the battery contained to begin with
- How you use optional devices, such as a USB device, to which the battery supplies power
- Where you store your programs and data
- Whether you close the display panel when you are not using the keyboard - closing the display saves power
- The environmental temperature - operating time decreases at low temperatures
- System Sleep Mode
- System Hibernation Mode
- Display power off period
- Whether you enable Sleep Mode, which can conserve battery power if you are frequently turning the computer off and on
- Whether you enable Sleep and Charge function

Batteries exhausted time

Refer to User Information Guide about batteries exhausted time

Extending battery life

To maximize the life of your battery packs, do the following at least once a month.

1. Turn off the computer's power.
2. Disconnect the AC adaptor and turn on the computer's power. If it does not turn on then go to Step 4.

-
3. Operate the computer on battery power for five minutes. If you find that the battery pack has at least five minutes of operating time, continue operating until the battery pack is fully discharged. However, if the **DC IN/Battery** indicator flashes or there is some other warning to indicate a low battery condition, go to Step 4.
 4. Connect the AC adaptor to the DC IN 19V jack of the computer, and to a wall outlet that is supplying power. The **DC IN/Battery** indicator glows amber to indicate that the battery pack is being charged. However, if **DC IN/Battery** indicator does not glow, this indicates that power is not being supplied. Check the connections for the AC adaptor and the power cord.
 5. Charge the battery pack until the **DC IN/Battery** indicator glows white.

Wireless WAN Device

Some models are equipped with the Wireless WAN device. This device gives you the ability for a high-speed connection to the Internet, corporate intranet, and your email while you are away from the office.

Installing a SIM card

To install a SIM card, do the following:

1. Click **Power** in the **Settings** charm, and then click **Shut down** and ensure that the **Power** indicator is off
2. Remove the AC adaptor and all cables and peripherals connected to the computer.
3. Locate the SIM card slot.

4. To pop the SIM card tray partially open, insert a slender object (about 10mm, diameter 0.8mm), such as a straightened paper clip, into the eject hole. Gently pull to open the SIM card tray.



Never pull the SIM card tray completely out of the slot.

Figure 4-4 Open the SIM card tray with the eject hole (Z30-B)

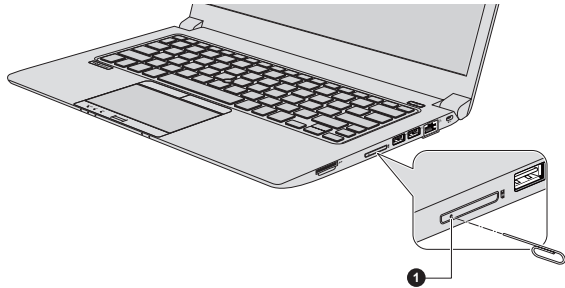
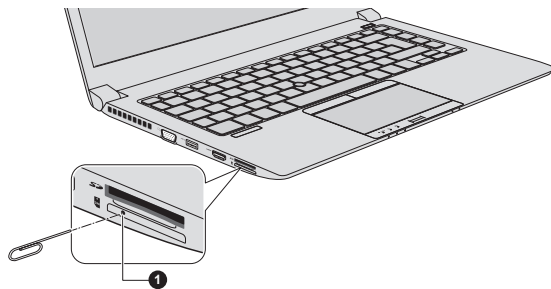


Figure 4-5 Open the SIM card tray with the eject hole (Z40-B)



1. Eject hole

5. Place the SIM card into the SIM card tray with the metal connectors facing up.
6. Insert the SIM card tray into the SIM card slot, and push the center of the tray to close it. Press gently until it locks into place.

Figure 4-6 Installing the SIM Card (Z30-B)

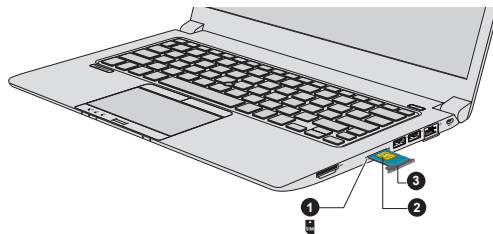
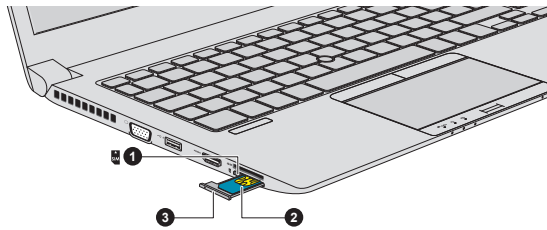


Figure 4-7 Installing the SIM Card (Z40-B)



1. SIM card slot
2. SIM card
3. SIM card tray



- *Never allow metal objects, such as screws, staples and paper clips, to enter the computer. Foreign metal objects can create a short circuit, which can cause computer damage and fire, possibly resulting in serious injury.*
- *Do not touch the connectors on the SIM card or on the computer. Debris on the connectors might cause access problems.*

Removing a SIM Card

To remove the SIM card, do the following:

1. Shut down the computer. Make sure the **Power** indicator is off.
2. To pop the SIM card tray partially open, insert a slender object (about 10mm, diameter 0.8mm), such as a straightened paper clip, into the eject hole. Gently pull to open the SIM card tray.
3. Remove the SIM card from the SIM card tray.
4. Insert the SIM card tray back into the SIM card slot.

GPS Function

Your computer might include a built-in GPS (Global Positioning System).

The performance of GPS varies depending on the environment. Failure to pinpoint a location might happen.

Your current location might not be shown depending on the status of GPS or the location. If you are obtaining your current location information from the computer, your current location might not be detected due to the information accuracy. Specifically, your current location might not be detected in the following places or situations:

- Inside or directly under a building
- 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

LAN

The computer has built-in support for Ethernet LAN (10 megabits per second, 10BASE-T), Fast Ethernet LAN (100 megabits per second, 100BASE-TX) or Gigabit Ethernet LAN (1000 megabits per second, 1000BASE-T).

This section describes how to connect/disconnect to a LAN.



- *The Wake-up on LAN function consumes power even when the system is off. Leave the AC adaptor connected while using this feature.*
- *The Link speed (10/100/1000 megabits per second) changes automatically depending on the network conditions (connected device, cable or noise and so on).*

LAN cable types



The computer must be configured properly before connecting to a LAN. Logging onto a LAN using the computer's default settings might cause a malfunction in LAN operation. Check with your LAN administrator regarding set-up procedures.

If you are using Gigabit Ethernet LAN (1000 megabits per second, 1000BASE-T), be sure to connect with a CAT5e cable or higher. You cannot use a CAT3 or CAT5 cable.

If you are using Fast Ethernet LAN (100 megabits per second, 100BASE-TX), be sure to connect with a CAT5 cable or higher. You cannot use a CAT3 cable.

If you are using Ethernet LAN (10 megabits per second, 10BASE-T), you can connect with a CAT3 or higher cable.

Connecting the LAN cable

To connect the LAN cable, do the following:

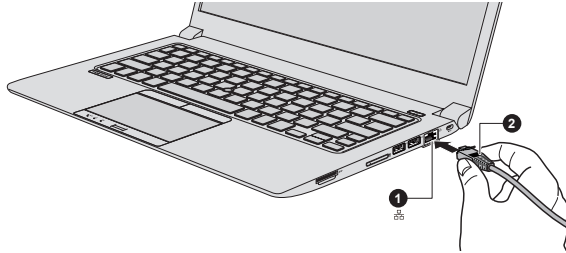


- *Connect the AC adaptor before connecting the LAN cable. The AC adaptor must remain connected during LAN use. If you disconnect the AC Adaptor while the computer is accessing a LAN, the system might hang up.*
- *Do not connect any other cable to the LAN jack except the LAN cable. Otherwise, malfunctions or damage might occur.*

- *Do not connect any power supplying device to the LAN cable that is connected to the LAN jack. Otherwise, malfunctions or damage might occur.*

1. Turn off the power to all external devices connected to the computer.
2. Plug one end of the cable into the LAN jack. Press gently until you hear the latch click into place.

Figure 4-8 Connecting the LAN cable (Z30-B)



1. LAN jack

2. LAN cable

Product appearance depends on the model you purchased.

3. Plug the other end of the cable into a LAN hub connector or router. Check with your LAN administrator and hardware or software vendor before using or configuring a network connection.

Memory media

The computer is equipped with a memory media slot that can accommodate some kinds of memory media with various memory capacities so that you can easily transfer data from devices, such as digital cameras and Personal Digital Assistants.

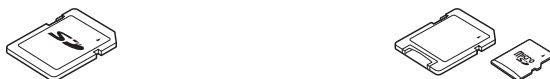


Keep foreign objects out of the memory media slot. Never allow metal objects, such as screws, staples and paper clips, to enter the computer or Keyboard. Foreign metal objects can create a short circuit, which can cause computer damage and fire, possibly resulting in serious injury.



- *An adaptor is required to use miniSD/microSD Card.*
- *Not all memory media have been tested and verified to work correctly. Therefore, it is not possible to guarantee that all memory media can operate properly.*

Figure 4-9 Examples of memory media



Secure Digital (SD) Card

microSD card adaptor and
microSD card



MultiMediaCard (MMC)


Points to note about the memory media card

SD/SDHC/SDXC memory cards comply with SDMI (Secure Digital Music Initiative), which is a technology adopted to prevent unlawful copy or playback of digital music. For this reason, you cannot copy or play back protected material on another computer or other device, and you cannot reproduce any copyrighted material except for your personal enjoyment.


The following is a simple explanation for distinguishing SD memory cards from SDHC memory cards and SDXC memory cards.

- SD, SDHC and SDXC memory cards appear the same externally. However, the logo on memory cards is different, so pay careful attention to the logo when purchasing.



- The SD memory card logo is ().

- The SDHC memory card logo is ().

- The SDXC memory card logo is ().

- The maximum capacity of SD memory cards is 2 GB. The maximum capacity of SDHC memory cards is 32 GB. The maximum capacity of SDXC memory cards is 128 GB.

Memory media format

New media cards are formatted according to specific standards. If you wish to reformat a media card, be sure to do so with a device that uses media cards.

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.



To format all areas of the memory card, including the protected area, you must obtain an appropriate application that applies the copy protection system.

Media care

Observe the following precautions when handling the card.

- Do not twist or bend cards.
- Do not expose cards to liquids or store in humid areas or lay media close to containers of liquid.
- Do not touch the metal part of a card or expose it to liquids or let it get dirty.
- After using card, return it to its case.
- The card is designed so that it can be inserted only one way. Do not try to force the card into the slot.
- Do not leave a card partially inserted in the slot. Press the card until you hear it click into place.
- Set the write-protect switch to the lock position, if you do not want to record data.
- Memory cards have a limited lifespan, so it is important to back up important data.
- Do not write to a card if the battery power is low. Low power might affect writing accuracy.
- Do not remove a card while read/write is in progress.



For more details on using memory cards, see manuals accompanying the cards.

About the write-protect feature

Memory media cards have a write-protect function.

- SD Card (SD memory card, SDHC memory card and SDXC memory card)



Set the write-protect switch to the lock position, if you do not want to record data.

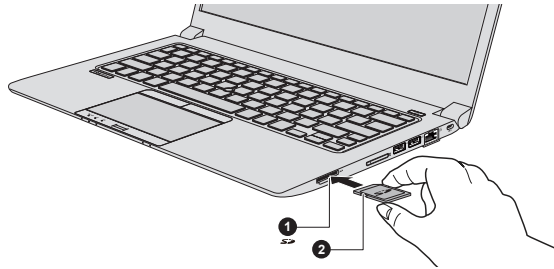
Inserting memory media

The following instructions apply to all types of supported media devices. To insert memory media, do the following:

1. Turn the memory media so that the contacts (metal areas) face down.
2. Insert the memory media into the memory media slot on your computer.

3. Press the memory media gently until it clicks into place.

Figure 4-10 Inserting memory media (Z30-B)



1. Memory media slot

2. Memory media

Product appearance depends on the model you purchased.



- *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.*
- *When inserting the memory media, do not touch the metal contacts. You might expose the storage area to static electricity, which can destroy data.*
- *Do not turn off the computer or switch to Sleep Mode or Hibernation Mode while files are being copied. Failure to do so might cause data loss.*

Removing memory media

The following instructions apply to all types of supported media devices. To remove memory media, do the following:

1. Click the **Safely Remove Hardware and Eject Media** icon on the Windows Taskbar.
2. Select **memory media**.
3. Push the memory media until you hear a click to partially release it.
4. Grasp the media and remove it.



- *If you remove the memory media or turn off the power while the computer is accessing the memory media, you might lose data or damage the media.*
- *Do not remove the memory media while the computer is in Sleep or Hibernation Mode. The computer might become unstable or data in the memory media might be lost.*
- *Do not remove only the miniSD/microSD Card while leaving the adaptor in the memory media slot.*

Smart Card

A Smart Card is a credit card sized plastic card. An extremely thin integrated circuit (IC chip) is embedded into the card on which information can be recorded. These cards can be used for a wide variety of applications including telephone related and electronic monetary payments.

This section contains information on the proper use of the Smart Card slot, and it is strongly recommended that you read it before operating the computer.

Some models are equipped with a Smart Card slot.



Your computer supports ISO7816-3 asynchronous cards (support protocols are T=0 and T=1) with a working voltage of 5 V.

Inserting a Smart Card

The Smart Card slot is on the side of the computer. The Windows hot-install feature allows you to insert a Smart Card while the computer is turned on.

To install a Smart Card, do the following:

1. Insert the Smart Card into the Smart Card slot with the metal connectors facing up.
2. Press the Smart Card gently to ensure a firm connection is made. The computer will identify the Smart Card and display an icon in the Windows Taskbar.



- *When inserting a Smart Card into the Smart Card slot, make sure to confirm that the card is oriented correctly before inserting.*
- *Insert the Smart Card until it reaches the end of the Smart Card slot. The Smart Card is partially extended beyond the chassis edge. Do not attempt to insert it further.*
- *Always remove the Smart Card from the Smart Card slot before moving the computer.*
- *Remove the Smart Card after use.*

Failure to follow these instructions might result in damage to the computer and/or damage to the Smart Card.

3. After inserting the Smart Card, you should refer to its documentation and also check the configuration in Windows to ensure that it is correct.

Removing a Smart Card

To remove a Smart Card, do the following:

1. Click the **Safely Remove Hardware and Eject Media** icon on the Windows Taskbar.



- Before removing the Smart Card, confirm that the Smart Card is not working with any program or system.
 - Be careful not to bend the Smart Card while removing it from the computer.
2. Point to **Smart Card** and click the left Touch Pad control button.
 3. Grasp the Smart Card and remove it.

External Display

Your computer video capabilities can be enhanced with additional displays. External displays allow you to share your desktop or extend the desktop area.



As the port operation of all external monitors have not been confirmed, some display devices might not function properly.

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.

External RGB monitor port

An external analog monitor can be connected to the External RGB monitor port on the computer. To connect an external analog monitor, do the following:

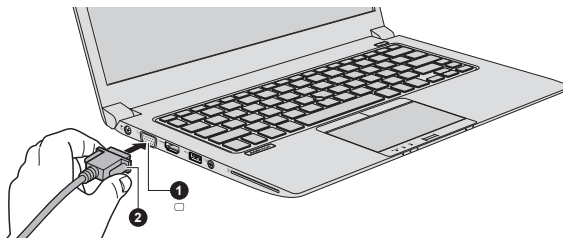
1. Connect the RGB cable to the External RGB monitor port.



There are no fastening screws for an external monitor cable on the External RGB monitor port. However, external monitor cables which have connectors with fastening screws can still be used.

2. Turn the external monitor's power on.

Figure 4-11 Connecting the RGB cable to the External RGB monitor port (Z30-B)



1. External RGB monitor port

2. RGB cable

Product appearance depends on the model you purchased.

When you turn on the power, the computer automatically recognizes the monitor and determines whether it is a color or monochrome device.

When displaying desktop on an external RGB monitor, desktop is sometimes displayed on the center of the monitor with black bars around desktop (with small size).

At that time, read the manual of the monitor and set the display mode which is supporting at the monitor. Then it will be displayed with suitable size with correct aspect ratio.

The HDMI out port

Some models are equipped with an HDMI out port. HDMI (High-Definition Multimedia Interface) port digitally transfers both video and audio data without reducing the quality. HDMI-compatible external display devices including televisions can be connected via the HDMI out port.

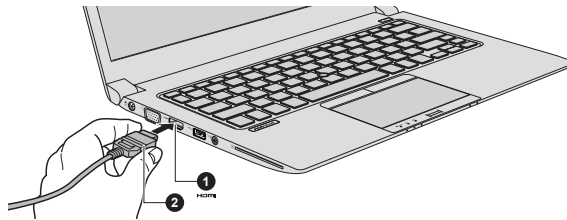
To connect an HDMI-compatible display device, do the following:



To connect a device to the HDMI out port, you must purchase a suitable HDMI cable.

1. Plug one end of the HDMI cable into the HDMI in port of the HDMI display device.
2. Plug the other end of the HDMI cable into the HDMI out port on your computer.
3. Turn the HDMI display device's power on.

Figure 4-12 Connecting the HDMI out port (Z30-B)



1. HDMI out port

2. HDMI cable

Product appearance depends on the model you purchased.



Do not plug/unplug an HDMI device under the following conditions:

- *The system is starting up.*
- *The system is shutting down.*

When you connect a television or external monitor to the HDMI port, the display output device is set to HDMI.

When you unplug the HDMI cable and replug it, wait at least 5 seconds before you replug the HDMI cable again.

Settings for display video on HDMI

To view video on the HDMI display device, be sure to configure the following settings otherwise you might find that nothing is displayed.



Be sure to use the function key to select the display device before starting to play video. Do not change the display device or audio device while playing media files.

Do not change the display device under the following conditions.

- *While data is being read or written*
- *While communication is being carried out*


Selecting HD Format

To select the display mode, do the following:

1. Click **Control Panel -> Appearance and Personalization -> Display -> Change display settings -> Advanced settings -> List All Modes** under **Windows System** group in the Apps view.
2. Select one of the modes at **List All Modes**.

Changing the external playback settings

After one or more external displays are connected, the operating system can automatically detect, identify, and set up the display settings.

You can also manually manage how the external displays work and change the display settings by pressing **P** while holding down the **Windows** () key. If you disconnect the external display before you turn off the computer's power, be sure to switch to the internal display.



When you change the display output device, the audio 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 audio playback device manually by the following steps:

1. Click **Control Panel -> Hardware and Sound -> Sound** under **Windows System** group in the Apps view.
2. In the **Playback** tab, select the playback device which you want to switch to.
3. To use the internal speakers on your computer, select **Speakers**. To use the television or the external monitor that you have connected to the computer, select a different playback device.
4. Click the **Set Default** button.
5. Click **OK** to close the **Sound** dialog.

TOSHIBA Hi-Speed Port Replicator III 180W/120W

In addition to the ports available on the computer, the TOSHIBA Hi-Speed Port Replicator III 180W/120W also provides several kinds of ports.

The Port Replicator connects directly to the docking interface on the underside of the computer. The AC adaptor connects the Port Replicator to a power source.



- *You must connect the AC adaptor before you connect to a Port Replicator.*
- *When your computer is docked in the Port Replicator, the following ports on the computer, if present, are not operational:*
 - *LAN jack*
 - *HDMI out port*
 - *External RGB monitor port*
 - *Headphone/Microphone jack*
- *When you use external display ports on the Port Replicator or on your computer, some software might show different type of ports which you connected.*
- *When connecting an AC Adaptor to the Port Replicator, use only the AC Adaptor included with Port Replicator. Do not use the computer's AC Adaptor.*
- *Refer to the Port Replicator's User's Manual for more details.*

To dock your computer in the Port Replicator, do the following:

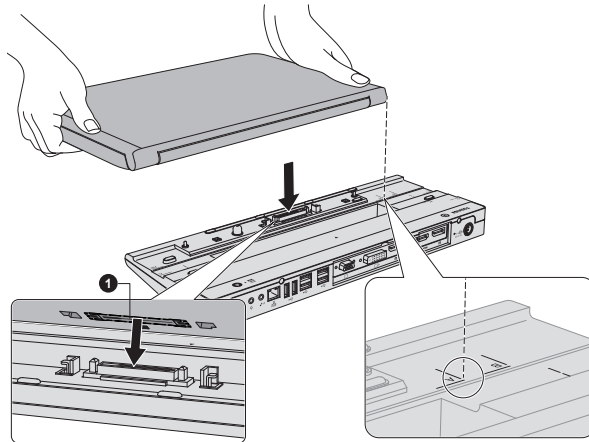
1. Align the top left and top right corner of your computer to the correct mark on the Port Replicator.

| Short Name | Top Left Corner | Top Right Corner |
|------------|-----------------|------------------|
| Z30-B | A | AB |
| Z40-B | B | AB |

2. Press down on the back of the computer until it clicks into place. The computer connector on the port replicator engages the computer's docking port.

When the computer is connected, the Docked light on the Port Replicator glows green while the computer is powered on.

Figure 4-13 Aligning your computer with the Port Replicator (Z30-B)



1. Docking port (computer)

Product appearance depends on the model you purchased.



Make sure the AC adaptor is always connected to the TOSHIBA Hi-Speed Port Replicator III 180W/120W while in use. Otherwise the Port Replicator will stop working, possibly resulting in data loss.

Some models support multiple display function if equipped with a TOSHIBA Hi-Speed Port Replicator III 180W/120W.



The port replicator supports a maximum of two external displays. For each VIDEO panel, only one port can function at a time.

Security lock

A security lock enables you to anchor your computer to a desk or other heavy object in order to help prevent unauthorized removal or theft. The computer has a security lock slot into which you can attach one end of the security cable, while the other end attaches to a desk or similar object. The methods used for attaching security cables differ from product to product. Refer to the instructions for the product you are using for more information.

Connecting the security lock

To connect a security cable to the computer, do the following:

1. Turn the computer so the security lock slot faces you.
2. Align the security cable with the lock slot and secure it in place.

Figure 4-14 Security lock (Z30-B)



1. Security lock slot

2. Security lock

Product appearance depends on the model you purchased.

Optional TOSHIBA Accessories

To make your computer even more powerful and convenient to use, you can add a number of options and accessories. For reference, the following list details some of the items that are available from your reseller or TOSHIBA dealer:

Universal AC Adaptor If you frequently use your computer at more than one site, it might be convenient to purchase an additional AC adaptor to be kept at each site in order to remove the need to carry the adaptor with you always.

TOSHIBA Hi-Speed Port Replicator III 180W/120W TOSHIBA Hi-Speed Port Replicator III 180W/120W provides several kinds of ports. Refer to the Port Replicator's User's Manual for more details.

Sound System and Video mode

This section describes some of the audio control functions.

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.
- To adjust the volume level of speakers or headphones, move the **Speakers** slider.
- To adjust the volume level of an application that you are using, move the slider for the corresponding application.

Microphone Level

To change the microphone recording level, do the following:

1. Right-click on the speaker icon on the Windows Taskbar, and select **Recording devices** from the sub menu.
2. Select **Microphone**, and click **Properties**.
3. On the **Levels** tab, move the **Microphone** slider to increase or decrease the microphone volume level.

If you feel the microphone volume level is inadequate, move the **Microphone Boost** slider to a higher level.

Audio Enhancements

To apply the sound effects for your current speaker, do the following:

1. Right-click on the **Speakers** icon on the Windows Taskbar, and then select **Playback devices** from the sub menu.
2. Select **Speakers**, and click **Properties**.
3. On the **Enhancements** tab, select the sound effects you would like, and click **Apply**.

DTS Studio Sound

DTS Studio Sound™ is a premium audio enhancement suite that utilizes revolutionary audio technology to provide the most immersive and realistic listening experience ever offered for a two speaker playback environment.

DTS Studio Sound is provided with some models. It provides the following features:

- Advanced audio rendering to match 2D and 3D video content for enveloping surround sound
- Accurate placement of audio cues for immersive surround sound from any PC speaker configuration laptop / desktop speakers or headphones
- Broad sweet spot with elevated sound image
- Maximum volume output delivering maximum volume without creating clipping or distortion
- Dialog enhancement for clear and intelligible vocals
- Bass enhancement for rich, low frequency production
- High frequency definition for crisp details
- Consistent volume level across content

To access the utility, click **DTS Studio Sound** in the Apps view.

U.S. patents apply to this product. See <http://patents.dts.com>. Manufactured under license from DTS Licensing Limited.


Realtek HD Audio Manager

You can confirm and change the audio configuration using the **Realtek HD Audio Manager**. To launch the **Realtek HD Audio Manager**:


- Click **Control Panel -> Hardware and Sound -> Realtek HD Audio Manager** under **Windows System** group in the Apps view.

When you first launch the Realtek HD Audio Manager, you can see two device tabs. **Speakers** is the default output device. **Microphone** is the default input device. To change the default device, click the **Set Default Device** button under the chosen device tab.

Information


Click the **Information** button  to view hardware information, software information, and language setting.

Power Management

The audio controller in your computer can be turned off when the audio function is not used. To adjust the configuration of audio power management, click the **Power Management** button  .

- When audio power management is enabled, the circle button at the upper left of the Power Management is blue and convex.
- When audio power management is disabled, the button is black and concave.

Speaker Configuration


Click the **Auto Test** button  to confirm the internal speakers or the headphone sound is coming from the right direction.

Default Format

You can change the sample rate and bit depth of sound.

Headphone/Microphone selection

To change the type of headphone or microphone, do the following:

1. Plug a headphone or microphone into the headphone/microphone combo jack.
2. Double-click on the circle button  in the right side of the Realtek HD Audio Manager main screen.
3. Select one from the device list for the device you plugged into.

Video mode

Video mode settings are configured via the **Screen Resolution** dialog.

To open the **Screen Resolution** dialog, click **Control Panel -> Appearance and Personalization -> Display -> Change display settings** under **Windows System** group in the Apps view.



If you are running some applications (for example a 3D application or video playback), you might see some disturbance, flickering, or frame dropping on your screen.

If that occurs, adjust the resolution of display, lowering it until the screen is displayed properly.

Chapter 5

Utilities and Advanced Usage

This chapter describes the utilities and special features of this computer, and the advanced usage of some utilities.

Utilities and Applications

This section describes the pre-installed utilities that come with the computer and details how to start them. For further information on their operation, refer to online manual, help files, or README.TXT file (if applicable) of each utility.

TOSHIBA Display Utility

TOSHIBA Display Utility includes Desktop Text Size utility, Split Screen utility, Resolution+, Multiple Displays utility, and other settings.

Desktop Text Size allows you to make the text size bigger or smaller on the desktop according to your usage and favorite. You can change the text size on the display and on the title bar of windows by changing the scaling of the text size. When the scaling is smaller, more information appears on the display simultaneously but the text size becomes smaller. When the scaling is larger, less information appears on the display simultaneously but the text size becomes larger.

You can install Split Screen utility by yourself. Split Screen utility enables you to create multiple display zones on a screen and to fit the active windows to within those zones.

Resolution+ is an image processor that performs high-quality image enhancements such as Color Correction and Sharpness on video playbacks.

Multiple Displays utility allows you to configure the Display Mode, select monitors, and configure your desktop, and so on.

To access this utility, click **Display Utility** under **TOSHIBA** group in the Apps view.

For details on TOSHIBA Display Utility, see the help file.

TOSHIBA Password Utility

This utility allows you to set a password in order to restrict access to the computer.

To access this utility, click **Password Utility** under **TOSHIBA** group in the Apps view.

TOSHIBA System Settings

This utility allows you to customize your hardware settings according to the way you work with the computer and the peripherals you use.

To access this utility, click **System Settings** under **TOSHIBA** group in the Apps view.

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.

For more information, refer to the [TOSHIBA Setup Utility](#) section.

TOSHIBA eco Utility

This computer is equipped with "eco mode". This mode slightly lowers performance of some devices to reduce electric power consumption. You can realize measurable power savings by using it continuously.

TOSHIBA eco Utility helps control the power consumption of your computer. Various information can help you understand your degree of contribution to the environment.

Furthermore, this utility contains Peak shift function that can help reduce power usage during periods of peak demand by shifting some power consumption to periods when demand is lower.

The utility also supports "eco charge mode". The battery will not be fully charged in this mode, thus extending the life cycle of the battery.

It is recommended using the computer with AC adaptor connected as the battery operating time is comparatively short in this mode.

Depending on the usage situation, the life cycle of the battery might not be extended properly.

To access this utility, click **eco Utility** under **TOSHIBA** group in the Apps view.

For details on TOSHIBA eco utility, see the help file.

TOSHIBA Function Key

This utility allows you to perform some features by pressing a specified key or combined with the FN key.

To set up this utility, click **Function Key** under **TOSHIBA** group in the Apps view.

For details, please refer to the [Function Key](#) section.

TOSHIBA Service Station

This application allows your computer to automatically search for TOSHIBA software updates or other alerts from TOSHIBA that are specific to your computer system and its programs. When enabled, this application periodically transmits to our servers a limited amount of system information, which will be treated in strict accordance with the rules and regulations as well as applicable data protection law.

To access this utility, click **Service Station** under **TOSHIBA** group in the Apps view.

TOSHIBA PC Health Monitor

The TOSHIBA PC Health Monitor application proactively monitors a number of system functions such as power consumption, battery health, and system cooling, informing you of significant system conditions. This application recognizes the system and individual component serial numbers and tracks specific activities related to their usage.

To access this utility, click **PC Health Monitor** under **TOSHIBA** group in the Apps view.

For details on TOSHIBA PC Health Monitor, see the help file.

Trusted Platform Module (TPM)

The TPM (Trusted Platform Module) is a security encryption device for the internal storage drive.

Trusted Platform Module is provided with some models. To operate the TPM function, use an applicable utility.



You might not have all the software listed in this section depending on the model you purchased.

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.

*1 To access the Power Options, click **Control Panel -> System and Security -> Power Options** under **Windows System** group in the Apps view.

| | |
|--|--|
| Display automatic power off *1 | This feature automatically cuts off power to the computer's display panel when there is no keyboard input for a specified time, with power being restored the next time a key is pressed. This can be specified in the Power Options. |
| Internal storage drive automatic power off *1 | This feature automatically cuts off power to the internal storage drive when it is not accessed for a specified time, with power being restored when the internal storage drive is next accessed. This can be specified in the Power Options. |
| System automatic Sleep/Hibernation Mode *1 | This feature automatically shuts down the system into either Sleep Mode or Hibernation Mode when there is no input or hardware access for a specified time. This can be specified in the Power Options. |
| Power on password | Two levels of password security, supervisor and user, are available to prevent unauthorized access to your computer. |
| Intelligent power supply *1 | A microprocessor in the computer's intelligent power supply detects the battery charge, automatically calculates the remaining battery capacity, and protects electronic components from abnormal conditions such as a voltage overload from the AC adaptor. This can be specified in the Power Options. |
| Battery save mode *1 | This feature lets you configure the computer in order to save battery power. This can be specified in the Power Options. |
| Panel power on/off *1 | This feature automatically turns power to the computer off when the display panel is closed, and turns it back on when the display panel is opened. This can be specified in the Power Options. |

| | |
|---|---|
| Low battery automatic Hibernation Mode **1 | When battery power is exhausted to the point that computer operation cannot be continued, the system automatically enters Hibernation Mode and shuts itself down. This can be specified in the Power Options. |
| Sleep Mode | If you have to interrupt your work, you can use this feature to allow you to turn off power to the computer without exiting from your software. Data is maintained in the computer's main memory so that when you next turn on the power, you can continue working right where you left off. |
| Hibernation Mode | This feature lets you turn off the power to the computer without exiting from your software. The contents of main memory are automatically saved to the internal storage drive so that when you next turn on the power again, you can continue working right where you left off. You must enable the Hibernation Mode before using this feature. Refer to the Starting Hibernation Mode section for more details. |
| USB Wakeup function | This function restores the computer from Sleep Mode depending on the external devices connected to the USB ports. For example, if a mouse or USB keyboard is connected to a USB port, clicking the mouse button or pressing the keyboard will wakeup the computer. |

Heat dispersal *1

To protect against overheating, the processor is equipped with an internal temperature sensor which activates a cooling fan or lowers the processing speed if the computer's internal temperature rises to a certain level. You are able to select whether to control this temperature by either turning on the fan first, then if necessary lowering the processor speed, or by lowering the processor speed first, then if necessary turning on the fan. Both of these functions are controlled through the Power Options.

When the processor's temperature falls within normal range, the fan and the processor operation returns to its standard speed.

If the processor's temperature reaches an unacceptably high level with either setting, the computer automatically shuts down to prevent any damage. 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 Password

To start the utility, click **Password Utility** under **TOSHIBA** group in the Apps view, 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.

■ Set (button)

Click this button to register a password. After a password is set, you are prompted to enter it when you start the computer.



■ *After you set the password, a dialog box appears asking whether you want to save it to other media. If you forget the password, you can open the password file on another computer. Be sure to keep the media in a safe place.*

- *When entering the character string to register the password, enter from the keyboard character by character and do not enter as ASCII code or copy-and-paste the character string. In addition, ensure that the registered password is correct by outputting the character string to the password file.*
- *When entering a password, do not enter any characters (for example "!" or "#") produced by pressing the **SHIFT** or **ALT** keys.*

- **Delete** (button)

Click this button to delete a registered password. Before you can delete a password, you must first enter the current password correctly.

- **Change** (button)

Click this button to change a registered password. Before you can change a password, you must first enter the current password correctly.

- **Owner String** (text box)

You can use this box to associate text with the password. After you enter text, click **Apply** or **OK**. When the computer is started, this text is displayed together with the prompt asking you to enter a password.



*You can launch **TOSHIBA Setup Utility** to set, change or delete the **HDD/SSD Password** or **HDD/SSD Master Password**.*

Refer to [TOSHIBA Setup Utility](#) section for further information.



- *If you forget your **HDD/SSD User Password**, **TOSHIBA** will **NOT** be able to assist you, and your internal storage drive 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 internal storage drive, or for any other losses to you or any other person or organization that result from the loss of access to your internal storage drive. If you cannot accept this risk, do not register the **HDD/SSD User Password**.*
- *When saving the **HDD/SSD User Password** shut down or restart the computer. If the computer is not shut down or restarted, the saved data might not be correctly reflected. For more information on shutting down or restarting the computer, refer to [Turning on the power](#).*

Supervisor Password

If you set a Supervisor Password, some functions might be restricted when a user logs on with the User Password. To set a Supervisor Password:

Click **Password Utility** under **TOSHIBA** group in the Apps view, and click **Supervisor Password**.

This utility lets you do the following:

- Register or delete the Supervisor Password.
- Specify restrictions for general users.

Starting the computer using a password

If you have already registered a user password, there is one way to start the computer:

- Enter the password manually.



The password is necessary only if the computer was shut down in Hibernation mode or boot mode. It is not needed in Sleep mode and Restart.

To enter a password manually, do the following:

1. Turn on the power as described in the [Getting Started](#) section. The following message appears in the screen:

HDD/SSD Password =



At this point, the function keys do not work. They will function after you enter the password.

2. Enter the Password.
3. Press **ENTER**.



If you enter the password incorrectly three times in a row, or if you do not enter the password within 1 minute, the computer shuts off. In this case, some features that can power on the computer automatically (Wake-up on LAN, Task Scheduler, etc) might not work. You must turn the computer back on to retry password entry.

TOSHIBA System Settings

TOSHIBA System Settings is the TOSHIBA configuration management tool available through the Windows operating system.

To run TOSHIBA System Settings, click **System Settings** under **TOSHIBA** group in the Apps view.

The TOSHIBA System Settings window contains a number of tabs to allow specific functions of the computer to be configured.

In addition there are also three buttons: OK, Cancel and Apply.

| | |
|---------------|--|
| OK | Accepts your changes and closes the TOSHIBA System Settings window. |
| Cancel | Closes the window without accepting your changes. |
| Apply | Accepts all your changes without closing the TOSHIBA System Settings window. |



Some options shown in gray are possible to confirm their status.

TOSHIBA System Settings screen might have the following tabs:

- General—Allows you to view the current BIOS version or change certain settings back to their default values
- Sleep and Charge/Sleep Utilities—Allows you to set advanced features for sleep mode, hibernate mode, and shutdown state
- Display—Allows you to select the internal LCD and/or external monitor when the computer boots up
- Boot Options—Allows you to change the sequence in which your computer searches the drives for the operating system
- Keyboard—Allows you to access the wake-on keyboard function, or to configure the function keys
- USB—Allows you to set conditions for USB
- SATA—Allows you to set conditions for SATA
- LAN—Allows you to set conditions for LAN
- Undock and Sleep—Allows you to set sleep conditions while undocking
- Advanced Options—Allows you to set conditions for a specific device or function



The settings or options explained here might vary depending on the model you purchased.

After you changed the settings, a dialog box might appear to prompt you that the changes will take effect after the computer is restarted. Make sure to restart your computer immediately to apply these changes.

USB Charge

Your computer can supply USB Bus power (DC5V) to the USB port.

The port with the icon (⚡) supports the following feature:

- USB Sleep and Charge
- System ON CDP Charge

USB Sleep and Charge

You can use the Sleep and Charge function to charge certain USB-compatible external devices such as mobile phones or portable digital music players. Your computer can supply USB bus power (DC5V) to the compatible port even when the computer is turned OFF. "Power OFF" includes Sleep Mode, Hibernation Mode, or shutdown state.

To set USB Sleep and Charge feature, click **System Settings -> Sleep Utilities** under **TOSHIBA** group in the Apps view.

Move the slider to enable or disable the Sleep and Charge function.



- *The Sleep and Charge function might not work with certain external devices even if they are compliant with the USB specification. In those cases, turn the power of the computer ON to charge the device.*
- *When Sleep and Charge function is enabled, USB bus power (DC5V) is supplied to compatible ports even when the power of the computer is turned OFF. USB bus power (DC5V) is similarly supplied to the external devices which are connected to the compatible ports. However, some external devices cannot be charged solely by supplying USB bus power (DC5V). As for the specifications of the external devices, contact the device manufacturer or check the specifications of the external devices thoroughly before use.*
- *Using the sleep and charge function to charge external devices takes longer than charging the devices with their own chargers.*
- *If Sleep and Charge function is enabled, the computer's battery discharges during hibernation or when the computer is turned off. It is recommended that you connect the AC adaptor to the computer while using Sleep and Charge function.*
- *External devices connected to the USB bus power (DC5V) function that interfaces with the power ON/OFF of the computer might always be in an operational state.*
- *When there is a current overflow of the external devices connected to the compatible ports, USB bus power (DC5V) supply might be stopped for safety reasons.*
- *When Sleep and Charge function is enabled, the USB Wakeup function might not work for compatible ports. In that case, if there is a USB port that does not have the Sleep and Charge function, attach the mouse or keyboard to it. If all USB ports have the Sleep and Charge function, change to disable Sleep and Charge function. The USB Wakeup function now works, but the Sleep and Charge function is disabled.*



Metal paper clips or hair pins/clips can generate heat if they come into contact with USB ports. Do not allow USB ports to come into contact with metal products, for example when carrying the computer in your bag.

Your PC has multiple charging modes so that many different USB devices can be supported for Sleep and Charge function.

Auto Mode (Default) is suitable for a wide range of digital audio players. While using **Auto Mode**, your computer can supply USB bus power at maximum 2.0A to the compatible ports while the computer is turned off. When USB device cannot be charged by **Auto Mode**, change to **Alternate Mode**.

This function might not be able to be used with some connected external devices even if the appropriate mode is selected. In this situation, disable and stop using this function.

Some external devices cannot use **Auto Mode**. As for the specifications of the external devices, contact the device's manufacture or check the specifications of the external device thoroughly before use.

Always use the USB cable that was included with your USB device.

Function under Battery Mode

This option can be used to enable/disable sleep and charge under battery mode. It also displays the remaining battery capacity.

Move the slider to enable or disable this function.

| | |
|--|--|
| Enabled | Enables Sleep and Charge function under battery mode. |
| Disabled | Enables Sleep and Charge function only when the AC adaptor is connected. |
| Disable features when the battery level reaches | Specifies the lower limit of remaining battery life by moving the slider bar. If the remaining battery life falls below the setting, the Sleep and Charge function is stopped. This setting is only available when the Function under Battery Mode is enabled. |

System ON CDP Charge

This function enable/disable CDP (Charging Downstream Port) to use rapid USB charge while the computer is powered on. When "System ON CDP Charge Mode" is enabled, your computer can supply USB bus power (DC5V, 1.5A) to the compatible ports while the computer is turned on.

To set System ON CDP Charge Mode, click **System Settings -> USB** under **TOSHIBA** group in the Apps view.

| | |
|-----------------|--|
| Enabled | Rapid USB battery charge at maximum 1.5A while PC is powered On. |
| Disabled | Conventional USB battery charge while PC is powered On. |



The "System ON CDP Charge Mode" might not work with certain external devices even if they are compliant with the USB specifications. In those cases, use a USB port without "USB Sleep and Charge function" or disable "System ON CDP Charge Mode".

It is recommended that AC adaptor be connected to the computer while supplying USB bus power (DC5V, 1.5A).

When your computer battery capacity is too low to continue, "System ON CDP Charge Mode" might not work. In those cases, connect the AC adaptor and reboot the computer.

Always use the USB cable that was included with your USB device.

When "System ON CDP Charge Mode" or "USB Sleep and Charge function" is enabled, the "USB Wakeup" function might not work. In that case, use a USB port without "USB Sleep and Charge function" or disable both "System ON CDP Charge Mode" and "USB Sleep and Charge function".

TOSHIBA PC Health Monitor

The TOSHIBA PC Health Monitor application proactively monitors a number of system functions such as power consumption, battery health (for models with battery), and the system cooling, informing you of significant system conditions. This application recognizes the system and individual component serial numbers, and tracks specific activities related to the computer and their usage.

The collected information includes device operation time and number of actuations or status changes (that is: number of power button and **FN** key combination uses, AC adaptor, battery (for models with battery), LCD, fan (for models with fan), internal storage drive, sound volume, wireless communication functionalities and USB information), date of initial system use, and also computer and device usage (that is: power settings, battery temperature and recharging (for models with battery), CPU, memory, backlight illumination time, and temperatures for various devices). The collected information is not limited to the examples specified here. The stored data uses a very small portion of the total internal storage capacity, approximately 10 MB or less per year.

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

Subject to the use restrictions above, the data on the internal storage drive logged might be transferred to entities located outside of your country or region of residence (for example, European Union). Those countries might or might not have the same data protection laws or data protection levels as required by your home country or region.

You can disable the TOSHIBA PC Health Monitor at any time by uninstalling the software via **Uninstall a program** in the **Control Panel**. Doing so will automatically delete all collected information from the internal storage drive.

The TOSHIBA PC Health Monitor software does not extend or modify TOSHIBA obligations under its standard limited warranty in any way. TOSHIBA standard limited warranty terms and limitations apply.

Starting the TOSHIBA PC Health Monitor

The TOSHIBA PC Health Monitor can be opened by clicking **PC Health Monitor** under **TOSHIBA** group in the Apps view.

The TOSHIBA PC Health Monitor main screen is displayed.

This utility might be disabled by default on your computer. You can enable it by clicking **Please click here to enable TOSHIBA PC Health Monitor**. The "PC Health Monitor Software Notice & Acceptance" screen is displayed. Carefully read the information displayed. Selecting **ACCEPT** and clicking **OK** enables the program. By enabling the TOSHIBA PC Health Monitor software, you agree with these terms and conditions and to the use and sharing of the collected information. Once the program is enabled, the TOSHIBA PC Health Monitor screen is displayed, and the program begins monitoring system functions and collecting information.



A message is displayed if any changes which might interfere with the operation of the program are detected. Follow the instructions displayed on-screen in the message.

Using the Hard Disk Drive (HDD) Protection

Some models have the function for reducing the risk of damage on the HDD.

Using an acceleration sensor built into the computer, HDD Protection detects vibration shocks and similar signs of movement of the computer, and automatically moves the HDD head to a safe position to reduce the risk of damage that could be caused by head-to-disk contact.



- *HDD Protection function does not guarantee that the HDD will not be damaged.*
- *During audio/video playback, when the computer detects a shock or vibration and the HDD's head is parked, the playback might be temporarily interrupted.*
- *HDD Protection cannot be used in models that are equipped with SSD.*

When vibration is detected, a notification is displayed on the screen, and the icon in the Taskbar changes to the protection state. This message is displayed until the **OK** button is pressed or 30 seconds pass. When vibration subsides, the icon returns to the normal state.

Setting up HDD Protection

You can change HDD Protection settings.

To open the utility, click **System Settings** -> **HDD Protection** under **TOSHIBA** group in the Apps view. The utility can also be started from the icon in the Taskbar or from the **Control Panel**.

HDD Protection

You can enable or disable HDD Protection by moving the slider to the right or left.



HDD Protection does not work when the computer is booting, in Sleep Mode, in Hibernation Mode, in transition to Hibernation Mode, recovering from Hibernation Mode, or powered off. Do not subject the computer to vibration or impact while the protection is disabled.

HDD Protection Message

Move the slider to the right to enable notification when vibration is detected.

System Tray Icon

Move the slider to the right to show HDD Protection icon in the Taskbar.

There are the following conditions for HDD Protection icon.



| | |
|---------------|------------------------------------|
| Normal | TOSHIBA HDD Protection is enabled. |
|---------------|------------------------------------|



| | |
|-------------------|---|
| Protection | TOSHIBA HDD Protection is active. The HDD head is in a safe position. |
|-------------------|---|



| | |
|------------|-------------------------------------|
| OFF | TOSHIBA HDD Protection is disabled. |
|------------|-------------------------------------|

Detection Level

There are four sensitivity levels in which vibrations, impacts and their similar signs are detected can be set to OFF, 1, 2 and 3 in ascending order. Level 3 is recommended for better protection of the computer. However, when the computer is used in a mobile environment or in other unstable conditions, setting the detection level to 3 could result in frequent execution of HDD Protection, which will slow down HDD reading and writing. Set a lower detection level when the speed of HDD reading and writing is a priority.

Different detection levels can be set depending on whether the computer is used as handheld or mobile usages, or whether it is used in a stable environment such as on a table in the workplace or at home. By setting

different detection levels for the computer depending on whether it runs with the AC power (desktop) or with batteries (handheld or mobile usage), the detection level automatically switches according to the power connection mode.

Detection Level Amplification

When the AC adaptor is disconnected, HDD Detection assumes that the computer will be carried and sets the detection level to the maximum for 10 seconds.

Default

You can reset HDD Protection settings to factory default by first clicking **Default** button and then **Apply** button.

3D Viewer

This feature displays a 3D object on the screen which moves in according to tilting or vibration of the computer.

When HDD Protection detects computer vibration the HDD head is parked and the 3D object disk rotation stops. When the head is un-parked the disk begins to rotate again.

Click **3D Viewer** button to start.



- *This 3D object virtually represents the computer's internal HDD. This representation might vary from the actual number of disks, disk rotation, head movement, part size, shape and direction.*
- *This feature might use a large amount of CPU and memory on some models. The computer might become slow or sluggish when attempting to run other applications while the 3D Viewer is displayed.*
- *Intensely shaking the computer or other subjecting it to strong impacts might damage the computer.*

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.

To enter the TOSHIBA Setup Utility, do the following:

1. Save your work.
2. In the **Settings** charm, click **Power** and then select **Restart**.
3. Hold down the **F2** key and then release this key one second after the computer is power on.
4. Follow the on-screen instructions to proceed.

To save the changes and exit the utility, press the **F10** key and proceed by selecting **Yes** or select **Exit -> Exit Saving Changes -> Yes**. The computer restarts immediately.

System Recovery

There is a hidden partition allocated on the internal storage drive for the System Recovery Options in the event of a problem.

You can also create recovery media and restore the system.

The following items are described in this section:

- Creating Recovery Media
- Restoring the pre-installed software from your created Recovery Media
- Restoring the pre-installed software from the Recovery Partition

Creating Recovery Media

This section describes how to create Recovery Media.



- *Be sure to connect the AC adaptor when you create Recovery Media.*
- *Be sure to close all other software programs except the Recovery Media Creator.*
- *Do not run software such as screen savers which can put a heavy load on the CPU.*
- *Operate the computer at full power.*
- *Do not use power-saving features.*
- *Do not write to the media when the virus check software is running. Wait for it to finish, then disable virus detection programs including any software that checks files automatically in the background.*
- *Do not use utilities, including those intended to enhance internal storage drive access speed. They might cause unstable operation and damage data.*
- *Do not shut down/log off or Sleep/Hibernate while writing or rewriting the media.*
- *Set the computer on a level surface and avoid places subjected to vibrations such as airplanes, trains, or cars.*
- *Do not use on an unstable surface such as a stand.*

A recovery image of the software on your computer is stored on the internal storage drive, and can be copied to either disc media or USB Flash Memory by using the following steps:

1. Select either blank disc or USB Flash Memory.
The application allows you to choose from a variety of different media onto which the recovery image can be copied including disc media and USB Flash Memory.



- *Some of the disc media might not be compatible with the optical disc drive connected to your computer. You should therefore verify that the optical disc drive supports the blank media you have chosen before proceeding.*
- *USB Flash Memory will be formatted and all the data in the USB Flash Memory will be lost when proceeding.*

2. Turn on your computer and allow it to load the Windows operating system from the internal storage drive as normal.
3. Insert the first blank disc into the optical disc drive tray, or insert the USB Flash Memory into one available USB port.
4. Click **Recovery Media Creator** under **TOSHIBA** group in the Apps view.
5. After Recovery Media Creator starts, select the type of media and the title you wish to copy, and then click the **Create** button.

Restoring the pre-installed software from your created Recovery Media

If the pre-installed files are damaged, you are able to use the Recovery Media you have created to restore the computer to the state it was in when you originally received it. To perform this restoration, do the following:



- *When you reinstall the Windows operating system, the internal storage drive will be reformatted and all data will be lost.*
- *Make sure to use the default Boot Mode option in TOSHIBA Setup Utility before restoring.*
 1. *Click the power icon (⏻) on the Start screen, and select **Restart**.*
 2. *Hold down the **F2** key and then release this key one second after the computer is power on. The TOSHIBA Setup Utility will load.*

*In the TOSHIBA Setup Utility screen, select **Advanced -> System Configuration -> Boot Mode -> UEFI Boot** (Default).*

*If you set the Boot Mode as **CSM Boot**, the recovery media created by Recovery Media Creator will NOT be able to restore.*

*If you create a recovery image using advanced recovery tools from Control Panel, also make sure to use the default Boot Mode option (**UEFI Boot**) in the TOSHIBA Setup Utility before restoring.*

1. Load the Recovery Media into the Optical Disc Drive connected to your computer or insert the recovery USB Flash Memory into one available USB port.
2. Click the power icon (⏻) on the Start screen, and select **Restart**.
3. Hold down the **F12** key and then release this key one second after the computer is power on.

4. Use the up and down cursor key to select the appropriate option from the menu according to your actual recovery media.
5. A menu is displayed from which you should follow the on-screen instructions.



If you have previously chosen to remove the recovery partition and are trying to create "Recovery Media", the following message appears: "The Recovery Media Creator can not be launched because there is no recovery partition."

When there is no recovery partition, the Recovery Media Creator cannot make Recovery Media.

However, if you have already created a "Recovery Media", you can use it to restore the recovery partition.

If you have not created "Recovery Media", contact TOSHIBA support for assistance.

Restoring the pre-installed software from the Recovery Partition

A portion of the total internal storage drive space is configured as a hidden recovery partition. This partition stores files which can be used to restore pre-installed software in the event of a problem.

If you set up your internal storage drive again later, do not change, delete, or add partitions in a manner other than specified in the manual, otherwise you might find that space for the required software is not available.

In addition, if you use a third-party partitioning program to reconfigure the partitions on your internal storage drive, you might find that it becomes impossible to set up your computer.



Make sure that the AC adaptor is connected during the restoring process.



When you reinstall the Windows operating system, the internal storage drive will be reformatted and all data will be lost.

1. Click the power icon (⏻) on the Start screen, and select **Restart**.
2. Hold down **0** (zero) key and then release this key one second after the computer is power on.
3. Select **Troubleshoot**.
4. Select **Reset your PC**.
5. Follow the on-screen instructions to finish the recovery.

You can also perform the restoration through PC settings in the operating system:

1. Click the **Settings** charm and click **Change PC settings**.

-
2. Click **Update and recovery** under PC settings and then click **Recovery**.
 3. Click **Get started** under **Remove everything and reinstall Windows**.
 4. Follow the on-screen instructions to finish the recovery.

Chapter 6

Troubleshooting

TOSHIBA has designed this computer for durability, however, should problems occur you are able to use the procedures detailed in this chapter to help determine the cause.

You should become familiar with this chapter as knowing what might go wrong can help prevent problems from occurring in the first place.

Problem-solving process

If you observe the following guidelines, resolving problems will be much easier.

- Stop immediately when you recognize a problem exists as taking further action might result in data loss or damage, or you might destroy valuable problem-related information that can help solve the problem.
- Observe what is happening. Write down what the system is doing and what actions you performed immediately before the problem occurred. Make a screenshot of the current display.

Also be aware that the questions and procedures described in this chapter are meant only as a guide, they are not definitive problem-solving techniques. 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.

Preliminary checklist

You should always consider the simplest solution first. The items detailed in this checklist are easy to fix and yet can cause what appears to be a serious problem:

- Make sure that you turn on all peripheral devices before you turn on the computer - this includes your printer and any other external device you are using.
- Before you attach an external device you should first turn off the computer, then when you turn the computer back on it recognizes the new device.
- Make sure that all optional accessories are configured properly in the computer's setup program and that all required driver software has been loaded (refer to the documentation included with the optional accessories for further information on its installation and configuration).

-
- Check all cables to ensure that they are correctly and firmly attached to the computer - loose cables can cause signal errors.
 - Inspect all connecting cables for loose wires and all connectors for loose pins.
 - Check that your disc media is correctly loaded

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.

Analyzing the problem

Sometimes the computer gives you clues that can help you identify why it is malfunctioning. In view of this, keep the following questions in mind:

- Which part of the computer is not operating properly - keyboard, HDD/SSD, display panel, Touch Pad, Touch Pad control buttons - as each device produces different symptoms.
- Check the options within the operating system to ensure that its configuration is set properly.
- What appears on the display? Does it display any messages or random characters? Make a screenshot of the current display and, if possible, look up the messages in the documentation included with the computer, software, or operating system.
- Check that all connecting cables are correctly and firmly attached as loose cables can cause erroneous or intermittent signals.
- Do any indicators light, if so, which ones, what color are they and do they stay on or blink? Write down what you see.
- Do you hear any beeps, if so how many, are they long or short and are they high pitched or low pitched? In addition, is the computer making any unusual noises? Write down what you hear.

Record your observations so you can describe them in detail to TOSHIBA Support.

Software

The problems might be caused by your software or disk. If you cannot load a software package, the media might be damaged or the program might be corrupted. In these instances, try loading another copy of the software if possible.

If an error message appears while you are using a software package, you should refer to the documentation supplied with it as this usually includes a problem-solving section or a summary of error messages.

Next, check any error messages against the operating system documentation.

Hardware

If you cannot find a software problem, you should then check the setup and configuration of your hardware. First run through the items in the preliminary checklist as described previously then, if you still cannot correct the problem, try to identify the source. The next section provides checklists for individual components and peripherals.



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.

If something goes wrong

Your computer does not respond to the keyboard commands

If an error occurs and the computer does not respond to your keyboard commands, do the following:

Press the power button and hold it down for five seconds. Once the computer has turned itself off, wait 10–15 seconds before turning on the power again by pressing the power button.

Your program stops responding

If you are working with a program that suddenly freezes all operations, chances are the program has stopped responding. You can exit the failed program without shutting down the operating system or closing other programs.

To close a program that has stopped responding:

1. Press **CTRL**, **ALT**, and **DEL** simultaneously (once), then click **Task Manager**. The Windows Task Manager window appears.
2. Select the program you want to close, then click **End Task**. Closing the failed program should allow you to continue working. If it does not, continue with the next step.
3. Close the remaining programs one by one by selecting the program name, then **End Task**. Closing all programs should allow you to continue working. If it does not, power off your computer and then restart it.

The computer does not start

Make sure that you attached the AC adaptor and power cord/cable properly.

If you are using the AC adaptor, check that the wall outlet is working by plugging in another device, such as a lamp.

Verify that the computer is on by looking at the **Power** indicator.

If the indicator is glowing, the computer is on. Also, try turning the computer off and then on.


If you are using an AC adaptor, verify that the computer is receiving power from the external power source by looking at the **DC IN/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 during startup, your computer can load the following advanced options.

| Key | Advanced option |
|------------|------------------------|
| F2 | TOSHIBA Setup Utility |
| F12 | Boot menu |
| 0 (zero) | Recovery options |

If your computer starts to load the Operating System instead of desired advanced options, do the following:

1. Click the power icon () on the Start screen and then select **Restart**.
2. Hold down the corresponding key and then release this key one second after the computer is power on.
3. Follow the on-screen instructions to proceed.

Hardware and system checklist

This section discusses problems caused by your computer's hardware or attached peripherals. Basic problems might occur in the following areas:

- Power
- Keyboard
- Internal display panel
- HDD
- Memory Media Card
- Pointing Device
- USB device
- Sound system
- External monitor
- LAN
- Wireless LAN
- Bluetooth

Power

When the computer is not plugged into an AC power outlet, the battery pack is the primary power source. Your computer also has Real-Time Clock (RTC) function. All of the power resources are interrelated with anyone having the ability to produce apparent power problems.

Overheating power down

If the processor's temperature reaches an unacceptably high level with either setting, the computer automatically shuts down to prevent any damage. In this instance, all unsaved data in memory is lost.

| Problem | Procedure |
|------------------------------------|--|
| Computer shuts down automatically. | Leave the computer off until it reaches room 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

If you have trouble turning on the computer with the AC adaptor connected, check the status of the DC IN/Battery indicator. Refer to the [Power Condition Descriptions](#) section for further information.

| Problem | Procedure |
|--|--|
| AC adaptor does not power the computer | <p>Check the connections to make sure that the power cord/adaptor is firmly connected to the computer and a working power outlet.</p> <p>Check the condition of the cord and terminals. If the cord is frayed or damaged it should be replaced, while if the terminals are soiled, they should be cleaned with a clean cotton cloth.</p> <p>If the AC adaptor still does not power the computer, you should contact TOSHIBA Support.</p> |

Battery

If you suspect a problem with the battery, check the status of the **DC IN/Battery** indicator.

| Problem | Procedure |
|--|---|
| Battery does not power the computer | The battery might be discharged. Connect the AC adaptor to recharge the battery. |
| Battery does not charge when the AC adaptor is attached. | If the battery is completely discharged, it will not begin charging immediately. In these instances, wait a few minutes before trying again. If the battery still does not charge, check that the power outlet the AC adaptor is connected to is supplying power. This can be tested by plugging another appliance into it. |

| Problem | Procedure |
|---|--|
| Battery does not power the computer as long as expected | If you frequently recharge a partially charged battery, the battery might not charge to its full potential. In these instances, you should fully discharge the battery and then attempt to charge it again. Check the Power saver option under Choose or customize a power plan in the Power Options . |

Real-Time Clock

| Problem | Procedure |
|---|--|
| The BIOS setting and system date/time are lost. | The lasting time of the Real-Time Clock (RTC) has run out. You must set the date and time in the TOSHIBA Setup Utility by using the following steps: <ol style="list-style-type: none">1. Launch the TOSHIBA Setup Utility. Refer to the TOSHIBA Setup Utility section for further information.2. Set the date in the System Date field.3. Set the time in the System Time field.4. Follow the on-screen instructions to proceed. |

Keyboard

Keyboard problems can be caused by the setup and configuration of the computer. Refer to the [The Keyboard](#) section for further information.

| Problem | Procedure |
|-----------------------------|--|
| Output to screen is garbled | Refer to your software documentation to ensure that it is not remapping the keyboard in any way (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.

| Problem | Procedure |
|--|--|
| No display | Press the function keys to adjust the display priority, and to make sure that it is not set for output to an external monitor. |
| Markings appear on the computer's display panel. | These marks might have come from contact with the keyboard and Touch Pad while the display panel has been closed. Try to remove the marks by gently wiping the display panel with a clean dry cloth or, if this fails, with a good quality LCD screen cleaner. In this latter instance, you should always follow the instructions with the screen cleaner and always ensure that you let the display panel dry properly before closing it. |

HDD

| Problem | Procedure |
|------------------|---|
| Slow performance | <p>The files on the HDD might be fragmented. In this instance, you should run the disk defragmentation utility to check the condition of your files and the HDD. Refer to the operating system's documentation or online Help File for further information on operating and using the defragmentation utility.</p> <p>As a last resort, you should reformat the HDD and then reload the operating system and all other files and data. If you are still unable to resolve the problem, contact TOSHIBA Support.</p> |

Memory Media Card

For further information, refer to [Operating Basics](#).

| Problem | Procedure |
|---|---|
| Memory media card error occurs | <p>Remove the memory media card from the computer and then reinsert it in order to ensure that it is firmly connected.</p> <p>If the problem persists, then you should refer to the documentation supplied with your memory media card for further information.</p> |
| You cannot write to a memory media card | Remove the memory media card from the computer and check to ensure that it is not write protected. |

| Problem | Procedure |
|------------------------|---|
| You cannot read a file | <p>Check to ensure the required file is actually on the memory media card that is inserted into the computer.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p> |

Pointing device

If you are using a USB mouse, you should also refer to both the [USB mouse](#) section and the documentation supplied with your mouse.

Touch Pad

| Problem | Procedure |
|---|--|
| The Touch Pad does not work. | <p>Check the Device Select settings by the following steps:</p> <ol style="list-style-type: none"> 1. Click Control Panel -> Hardware and Sound -> Mouse under Windows System group in the Apps view. 2. In the Advanced tab, click Advanced feature settings... -> Device Select. |
| On-screen pointer does not respond to pointing device operation | <p>In this instance, the system might be busy. Try moving the mouse again after waiting a short while.</p> |
| Double-tapping (Touch Pad) does not work | <p>In this instance, you should initially try changing the double-click speed setting within the Mouse Control utility.</p> <ol style="list-style-type: none"> 1. To access this utility, click Control Panel -> Hardware and Sound -> Mouse under Windows System group in the Apps view. 2. Within the Mouse Properties window, click the Buttons tab. 3. Set the double-click speed as required and click OK. |

| Problem | Procedure |
|--|---|
| The on-screen pointer moves too fast or too slow | <p>In this instance, you should initially try changing the speed setting within the Mouse Control utility.</p> <ol style="list-style-type: none"> <li data-bbox="501 197 1046 284">1. To access this utility, click Control Panel -> Hardware and Sound -> Mouse under Windows System group in the Apps view. <li data-bbox="501 288 1046 344">2. Within the Mouse Properties window, click the Pointer Options tab. <li data-bbox="501 349 1046 408">3. Set the pointer speed as required and click OK. |
| The reaction of Touch Pad is either too sensitive or not sensitive enough. | <p>Adjust the touch sensitivity.</p> <p>To access this utility, click Control Panel -> Hardware and Sound -> Mouse under Windows System group in the Apps view.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p> |

USB mouse

| Problem | Procedure |
|---|---|
| On-screen pointer does not respond to mouse operation | <p>In this instance, the system might be busy. Try moving the mouse again after waiting a short while.</p> <hr/> <p>Remove the mouse from the computer and then reconnect it to a free USB port in order to ensure that it is firmly attached.</p> |
| Double-clicking does not work | <p>In this instance, you should initially try changing the double-click speed setting within the Mouse Control utility.</p> <ol style="list-style-type: none"> <li data-bbox="501 1066 1046 1152">1. To access this utility, click Control Panel -> Hardware and Sound -> Mouse under Windows System group in the Apps view. <li data-bbox="501 1157 1046 1212">2. Within the Mouse Properties window, click the Buttons tab. <li data-bbox="501 1217 1046 1273">3. Set the double-click speed as required and click OK. |

| Problem | Procedure |
|--|--|
| The on-screen pointer moves too fast or too slow | <p>In this instance, you should initially try changing the speed setting within the Mouse Control utility.</p> <ol style="list-style-type: none"> 1. To access this utility, click Control Panel -> Hardware and Sound -> Mouse under Windows System group in the Apps view. 2. Within the Mouse Properties window, click the Pointer Options tab. 3. Set the pointer speed as required and click OK. |
| The on-screen pointer moves erratically | <p>The elements of the mouse responsible for detecting movement might be dirty. Refer to the documentation supplied with the mouse for instructions on how to clean it.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p> |

USB device

In addition to the information in this section, also refer to the documentation supplied with your USB device.

| Problem | Procedure |
|--------------------------|--|
| USB device does not work | <p>Remove the USB device from the computer and then reconnect it to a free port in order to ensure that it is firmly attached.</p> <p>Ensure that any required USB device drivers are properly installed. To achieve this, you should refer to both the device documentation and the operating system documentation.</p> |

Sleep and Charge function

For more information and settings, refer to the [USB Charge](#) section.

| Problem | Procedure |
|--|--|
| <p>I cannot use the Sleep and Charge function.</p> | <p>Sleep and Charge function might be disabled. Enable the Sleep and Charge function in the TOSHIBA System Settings.</p> <p>When there is a current overflow of the external device connected to the compatible port, USB bus power (DC5V) supply might be stopped for safety reasons. When this happens, disconnect an external device if some external devices are connected. After that, turn the power of the computer ON/OFF to restore the function. If this function cannot be still used even if only one external device is connected, stop using the external device because its current is over the acceptable value of this computer.</p> <p>Some external devices might not be able to use the Sleep and Charge function. In this case, please try one or more of the following methods.</p> <ul style="list-style-type: none"> ■ Turn OFF the computer while external devices are connected. ■ Connect external devices after turning OFF of the computer. <p>If this function cannot be still used, change the setting to disable the function and stop using this function.</p> |
| <p>The battery depletes quickly even when I turned OFF the power of the computer.</p> | <p>If Sleep and Charge function is enabled, the computer's battery discharges during hibernation or when the computer is turned off.</p> <p>Connect the AC adaptor to the computer or disable the Sleep and Charge function.</p> |
| <p>External devices connected to the compatible ports do not work when connected to a compatible port.</p> | <p>Some external devices might not work when connected to a compatible port if the Sleep and Charge function is enabled.</p> <p>Reconnect the external device after turning the computer ON.</p> <p>If the external device still does not work, connect device to an USB port that does not have the Sleep and Charge function or change to disable the Sleep and Charge function.</p> |

| Problem | Procedure |
|--|---|
| The "USB Wakeup function" does not work. | <p>When "System ON CDP Charge Mode" or "USB Sleep and Charge function" is enabled, the "USB WakeUp" function does not work for ports that support the Sleep and Charge function.</p> <p>In that case, use an USB port that does not have the USB Sleep and Charge function or change to disable both "System ON CDP Charge Mode" and "USB Sleep and Charge function".</p> |

Sound system

In addition to the information in this section, also refer to the documentation supplied with your audio device.

| Problem | Procedure |
|-------------------------|---|
| No sound is heard | <p>Press the function keys to increase or decrease volume.</p> <p>Check the software volume settings.</p> <p>Check to see if Mute is turned to Off</p> <p>Check to make sure that the headphone connection is secure.</p> <p>Check within the Windows Device Manager application to ensure that the sound device is enabled and that the device is properly working.</p> |
| Annoying sound is heard | <p>In this instance, you might be experiencing feedback from either the internal microphone or an external microphone connected to the computer. Refer to Sound System and Video mode for further information.</p> <p>Volume cannot be adjusted during Windows start up or shut down.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p> |

External monitor

Also refer to [Operating Basics](#), and to the documentation supplied with your monitor for further information.

| Problem | Procedure |
|--------------------------|---|
| Monitor does not turn on | After confirming that the monitor's power switch is on, check the connections to make sure that the power cord/adaptor is firmly connected to the monitor and to a working power outlet. |
| No display | <p>Try adjusting the contrast and brightness controls on the external monitor.</p> <p>Press the function key in order to change the display priority and ensure that it is not set for the internal display only.</p> <p>Check to see if the external monitor is connected.</p> <p>When the external monitor is set as the primary display device in extended desktop mode, it does not display when the computer wakes up from Sleep Mode if the external monitor has been disconnected while in Sleep Mode.</p> <p>To keep this from happening, do not disconnect the external monitor while the computer is in Sleep or Hibernation Mode.</p> <p>Remember to turn off the computer before disconnecting the external monitor.</p> <p>When the display panel and an external monitor are set to clone mode and they are turned off by the timer, the display panel or the external monitor might not display when turned on again.</p> <p>If this occurs, press the function key to reset the display panel and external monitor to clone mode.</p> |
| Display error occurs | <p>Check that the cable connecting the external monitor to the computer is firmly attached.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p> |

LAN

| Problem | Procedure |
|-------------------|---|
| Cannot access LAN | Check for a firm cable connection between the LAN jack and the LAN hub. |

| Problem | Procedure |
|------------------------------|---|
| Wake-up on LAN does not work | <p>Make sure the AC adaptor is connected. The Wake-up on LAN function consumes power even when the system is off.</p> <p>Check to make sure that fast startup is disabled:</p> <ol style="list-style-type: none"> 1. Click Control Panel -> System and Security -> Power Options under Windows System group in the Apps view. 2. Click Choose what the power button does or Choose what closing the lid does. 3. Click Change settings that are currently unavailable. 4. Clear the Turn on fast startup check box. 5. Click the Save changes button. <p>If problems persist, consult your LAN administrator.</p> |

Wireless LAN

| Problem | Procedure |
|----------------------------|--|
| Cannot access Wireless LAN | <p>Make sure that the wireless communication function of the computer is on.</p> <p>If problems persist, contact your LAN administrator.</p> |

Bluetooth

| Problem | Procedure |
|--------------------------------|--|
| Cannot access Bluetooth device | <p>Check to ensure that the wireless communication function of the computer is on.</p> <p>Check to ensure that the Bluetooth Manager application is running on the computer and that power to the external Bluetooth device is turned on.</p> <p>Check to ensure that no optional Bluetooth Adaptor is installed in the computer. The built-in Bluetooth hardware cannot operate simultaneously with another Bluetooth controller.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p> |

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. Before contacting TOSHIBA, try the following:

- Review troubleshooting sections in the documentation supplied with your software and/or peripheral devices.
- If a problem occurs when you are running software applications, consult the software documentation for troubleshooting suggestions and consider calling the software company's technical support department for assistance.
- Consult the reseller or dealer from where you purchased your computer and/or software - they are your best resource for current information and support.

TOSHIBA technical support

If you are still unable to solve the problem and suspect that it is hardware-related, read the enclosed warranty booklet or visit the TOSHIBA technical support website

<http://pc-support.toshiba.eu>

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.

Z30-B 316 (w) x 227 (d) x 13.9/17.9 (h) millimeters
316 (w) x 227 (d) x 15.9/19.9 (h) millimeters (touch screen models)

Z40-B 338 (w) x 236 (d) x 20.4 (h) millimeters
338 (w) x 236 (d) x 21.9 (h) millimeters (touch screen models)

Environmental Requirements

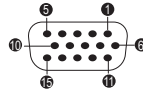
| Conditions | Ambient temperature | Relative humidity |
|----------------------|------------------------------|----------------------------|
| Operating | 5°C (41°F) to 35°C (95°F) | 20% to 80% (noncondensing) |
| Non-operating | -20°C (-4°F) to 60°C (140°F) | 10% to 90% (noncondensing) |
| Wet-bulb temperature | 29°C maximum | |

| Conditions | Altitude (from sea level) |
|---------------|------------------------------|
| Operating | -60 to 3,000 meters |
| Non-operating | -60 to 10,000 meters maximum |

Power Requirements

| | |
|-------------------|---|
| AC adaptor | 100-240V AC 50 Hz or 60 Hz (cycles per second) |
| Computer | 19 V DC |

External RGB monitor port pin assignment



| Pin | Signal Name | Description | I/O |
|-----|-------------|------------------------|-----|
| 1 | CRV | Red Video Signal | O |
| 2 | CGV | Green Video Signal | O |
| 3 | CBV | Blue Video Signal | O |
| 4 | Reserved | Reserved | |
| 5 | GND | Ground | |
| 6 | GND | Ground | |
| 7 | GND | Ground | |
| 8 | GND | Ground | |
| 9 | +5V | Power Supply | |
| 10 | GND | Ground | |
| 11 | Reserved | Reserved | |
| 12 | SDA | Serial Data Signal | I/O |
| 13 | HSYNC | Horizontal Sync Signal | O |
| 14 | VSYNC | Vertical Sync Signal | O |
| 15 | SCL | Serial Clock Signal | O |

I/O (I): Input to computer

I/O (O): Output from computer

AC Power Cord and Connectors

The AC input plug of the power cord must be compatible with the various international AC power outlets and the cord must meet the standards for the country/region in which it is used. All cords must meet the following specifications:

| | |
|------------------------|------------------------------|
| Wire size: | Minimum 0.75 mm ² |
| Current rating: | Minimum 2.5 amperes |

Certification agencies

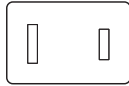
| | | | |
|-------------------------|--|-------------------------|-------|
| China: | CQC | | |
| U.S. and Canada: | UL listed and CSA certified No. 18 AWG, Type SVT or SPT-2 | | |
| Australia: | AS | | |
| Japan: | DENANHO | | |
| Europe: | | | |
| Austria: | OVE | Italy: | IMQ |
| Belgium: | CEBEC | The Netherlands: | KEMA |
| Denmark: | DEMKO | Norway: | NEMKO |
| Finland: | FIMKO | Sweden: | SEMKO |
| France: | LCIE | Switzerland: | SEV |
| Germany: | VDE | United Kingdom: | BSI |

In Europe, two conductors power cord must be VDE type, H05VVH2-F or H03VVH2-F and for three conductors power cord must be VDE type, H05VV-F.

For the United States and Canada, two-pin plug configuration must be a 2-15P (250 V) or 1-15P (125 V) and three-pin plug configuration must be 6-15P (250 V) or 5-15P (125 V) as designated in the U.S. National Electrical code handbook and the Canadian Electrical Code Part II.

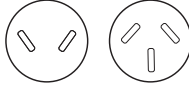
The following illustrations show the plug shapes for the U.S.A. and Canada, the United Kingdom, Australia, Europe, and China.

USA



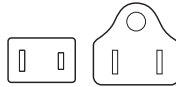
UL approved

Australia



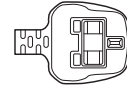
AS approved

Canada



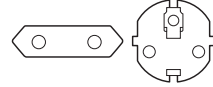
CSA approved

United Kingdom



BS approved

Europe



Approved by the appropriate agency

China



CCC approved

Information for Wireless Devices

Wireless Technology Interoperability

The Wireless LAN is compatible with other LAN systems Direct Sequence Spread Spectrum (DSSS) /Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The IEEE 802.11 Standard on Wireless LANs (Revision a/b/g/n, b/g/n or Revision a/b/g/n/ac), as defined and approved by the Institute of Electrical and Electronics Engineers.

Bluetooth® Modules are designed to be interoperable with any product with Bluetooth wireless technology that is based on Frequency Hopping Spread Spectrum (FHSS) radio technology, and is compliant to:

- Bluetooth Specification (depending on the model you purchased), as defined and approved by the Bluetooth Special Interest Group.
- Logo certification with Bluetooth wireless technology as defined by the Bluetooth Special interest Group.

This Bluetooth product is not compatible with devices using Bluetooth Version 1.0B specifications.



The wireless devices have not completed verification of connection and operation with all devices which are using the Wireless LAN or Bluetooth radio technology.

Bluetooth and Wireless LAN devices operate within the same radio frequency range and might interfere with one another. If you use Bluetooth

and Wireless LAN devices simultaneously, you might occasionally experience a less than optimal network performance or even lose your network connection.

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. The level of energy emitted by wireless products however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because wireless products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes that 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.

In some situations or environments, the use of wireless products might be restricted by the proprietor of the building or responsible representatives of the organization. These situations might for example include:

- Using the wireless products equipment on board of airplanes, or
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment (for example, airports), you are encouraged to ask for authorization to use the wireless device prior to turning on the equipment.

Wireless LAN Technology

The wireless communication function of the computer supports some wireless communication devices.

Only some models are equipped with both Wireless LAN and Bluetooth functions.



- *Do not use the Wireless LAN (Wi-Fi) or Bluetooth functionalities near a microwave oven or in areas subject to radio interference or magnetic fields. Interference from a microwave oven or other source can disrupt Wi-Fi or Bluetooth operation.*

- *Turn off all wireless functionalities when near a person who might have a cardiac pacemaker implant or other medical electric device. Radio waves might affect pacemaker or medical device operation, possibly resulting in serious injury. Follow the instruction for your medical device when using any wireless functionality.*
- *Always turn off wireless functionality if the computer is near automatic control equipment or appliances such as automatic doors or fire detectors. Radio waves can cause malfunction of such equipment, possibly resulting in serious injury.*
- *It might not be possible to make a network connection to a specified network name using the ad hoc network function. If this occurs, the new network (*) has to be configured for all computers connected to the same network in order to re-enable network connections.
* Make sure to use new network name.*

Security

- TOSHIBA strongly recommends that you enable encryption functionality, otherwise your computer is open to illegal access by an outsider using a wireless connection. 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 |
| Network Operating System | ■ Microsoft Windows Networking |
| Media Access Protocol | ■ CSMA/CA (Collision Avoidance) with Acknowledgment (ACK) |

Radio Characteristics

Radio Characteristics of Wireless LAN module might vary according to:

- Country/region where the product was purchased
- Type of product

Wireless communication is often subject to local radio regulations. Although Wireless LAN wireless networking products have been designed for operation in the license-free 2.4 GHz and 5 GHz band, local radio regulations might impose a number of limitations to the use of wireless communication equipment.

| | |
|------------------------|---|
| Radio Frequency | ■ Band 5 GHz (5150-5850 MHz) (Revision a and n) |
| | ■ Band 2.4 GHz (2400-2483.5 MHz) (Revision b/g and n) |

The range of the wireless signal is related to the transmit rate of the wireless communication. Communications at lower transmit range might travel larger distances.

- The range of your wireless devices can be affected when the antennas are placed near metal surfaces and solid high-density materials.
- Range is also impacted due to "obstacles" in the signal path of the radio that might either absorb or reflect the radio signal.

Radio Frequency Interference Requirements

This device is restricted to indoor use due to its operation in the 5.15 to 5.25GHz frequency range.

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. When it is enabled, Bluetooth provides the wireless personal area network environment which is safe and trustworthy, that is quick and easy.

You cannot use the built-in Bluetooth functions of the computer and an external Bluetooth adaptor simultaneously. For reference, Bluetooth wireless technology has the following features:

Security

Two advanced security mechanisms ensure a high level of security:

- Authentication prevents access to critical data and makes it impossible to falsify the origin of a message.
- Encryption prevents eavesdropping and maintains link privacy.

Worldwide operation

The Bluetooth radio transmitter and receiver operate in the 2.4 GHz band, which is license-free and compatible with radio systems in most countries in the world.

Radio links

You can easily establish links between two or more devices, with these links being maintained even if the devices are not within a line-of-sight of each other.

Radio Regulatory Information

The Wireless device must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. This product complies with the following radio frequency and safety standards.

Europe

Restrictions for Use of 2400.0-2483.5MHz Frequencies in Europe

| | | |
|----------------------------|---|--|
| France: | Outdoor use limited to 10mW e.i.r.p. within the band 2454-2483.5MHz | Military Radiolocation use.Refarming of the 2.4GHz band has been ongoing in recent years to allow current relaxed regulation Full implementation planned 2012. |
| 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. |
| Russian Federation: | - | Only for indoor applications. |

Restrictions for Use of 5150-5350MHz 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 Federation: | Limited | <p>e.i.r.p 100mW. Permitted to use only for indoor applications, closed industrial and warehouse areas, and on board aircraft.</p> <ol style="list-style-type: none"> 1. Permitted to use for local networks of aircraft crew service communications on board aircraft in area of the airport and at all stages of flight. 2. Permitted to use for public wireless access local networks on board aircraft during a flight at the altitude not less than 3000m. |
|----------------------------|---------|---|

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 Federation: | Limited | <p>e.i.r.p 100mW. Permitted to use only for indoor applications, closed industrial and warehouse areas, and on board aircraft.</p> <ol style="list-style-type: none"> 1. Permitted to use for local networks of aircraft crew service communications on board aircraft in area of the airport and at all stages of flight. 2. Permitted to use for public wireless access local networks on board aircraft during a flight at the altitude not less than 3000m. |

To remain in conformance with European spectrum usage laws for Wireless LAN operation, the above 2.4GHz and 5GHz channel limitations apply for outdoor usage. The user should use the wireless LAN utility to

check the current channel of operation. If operation is occurring outside of the allowable frequencies for outdoor use, as listed above, the user must contact the applicable national spectrum regulator to request a license for outdoor operation.

Canada - Industry Canada (IC)

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

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-EL.

The term "IC" before the equipment certification number only signifies that the Industry Canada technical specifications were met.

USA-Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Refer to the FCC information section for the detailed information.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.



The radiated output power of the Wireless device is far below the FCC radio frequency exposure limits. Nevertheless, the Wireless device shall be used in such a manner that the potential for human contact during normal operation is minimized.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health

Caution: Exposure to Radio Frequency Radiation

The radiated output power of the Wireless device is far below the FCC radio frequency exposure limits. Nevertheless, the Wireless device shall be used in such a manner that the potential for human contact during normal operation is minimized.

In the usual operating configuration, the distance between the antenna and the user should not be less than 20cm. Please refer to the computer user's manual for the details regarding antenna location.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca

Caution: Radio Frequency Interference Requirements

This device is restricted to indoor use due to its operation in the 5.15 to 5.25GHz frequency range.

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.

Taiwan

Article 12

Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio frequency devices.

Article 14

The low power radio-frequency devices shall not influence aircraft security and interfere legal communications;

If found, the user shall cease operating immediately until no interference is achieved.

The said legal communications means radio communications is operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

Australia and New Zealand regulatory compliance

This equipment incorporates a radio transmitting device, in normal use a separation distance of 20cm will ensure radio frequency exposure levels complies with the Australian and New Zealand Standards.

Using this equipment in Japan

In Japan, the frequency bandwidth of 2,400MHz to 2,483.5MHz for second generation low-power data communication systems such as this equipment overlaps that of mobile object identification systems (premises radio station and specified low-power radio station).

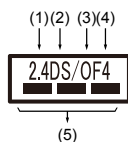
1. Important notice

The frequency bandwidth of this equipment may operate within the same range as industrial devices, scientific devices, medical devices, microwave ovens, licensed radio stations and non-licensed specified low-power radio stations for mobile object identification systems (RFID) used in factory production lines (Other Radio Stations).

1. Before using this equipment, ensure that it does not interfere with any of the equipment listed above.
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 an authorized TOSHIBA service provider if you have problems with interference caused by this product to Other Radio Stations.

2. Indication for Wireless LAN

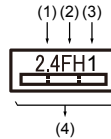
The indication shown below appears on this equipment.




1. 2.4: This equipment uses a frequency of 2.4GHz.
2. DS: This equipment uses DS-SS modulation.
3. OF: This equipment uses OFDM modulation.
4. 4: The interference range of this equipment is less than 40m.
5. ■■■ : This equipment uses a frequency bandwidth from 2,400MHz to 2,483.5MHz. It is possible to avoid the band of mobile object identification systems.

3. Indication for Bluetooth

The indication shown below appears on this equipment.



1. 2.4: This equipment uses a frequency of 2.4 GHz.
2. FH: This equipment uses FH-SS modulation.
3. 1: The interference range of this equipment is less than 10m.
4.  : This equipment uses a frequency bandwidth from 2,400 MHz to 2,483.5 MHz. It is impossible to avoid the band of mobile object identification systems.

4. About the JEITA

5GHz Wireless LAN supports W52/W53/W56 Channel.

| | | | |
|-----------------|-----|-----|--|
| IEEE802.11b/g/n | | | |
| IEEE802.11a/n | | | |
| W52 | W53 | W56 | |

Device Authorization

This device obtains the Technical Regulation Conformity Certification and it belongs to the device class of radio equipment of low-power data communication system radio station stipulated in the Telecommunications Business Law of Japan.

- Intel® Dual band Wireless-AC 7265
Intel® Dual band Wireless-N 7265
Intel® Wireless-N 7265
The Name of the radio equipment: 7265NGW
DSP Research, Inc.
Approval Number: D140017003
- Intel® Dual band Wireless-AC 3160
The Name of the radio equipment: 3160NGW
DSP Research, Inc.
Approval Number: D130092003

The following restrictions apply:

- Do not disassemble or modify the device.
- Do not install the embedded wireless module into other device.

Radio approvals for wireless devices

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 December 2014

| | | | |
|-----------------|---------------|-------------|-----------|
| Austria | Belgium | Bulgaria | Canada |
| Cyprus | Czech Rep | Denmark | Estonia |
| Finland | France | Germany | Greece |
| Hong Kong | Hungary | Iceland | India |
| Ireland | Italy | Japan | Korea |
| Latvia | Liechtenstein | Lithuania | Luxemburg |
| Malta | Monaco | Netherlands | Norway |
| Philippines | Poland | Portugal | Romania |
| Slovak Republic | Slovenia | Spain | Sweden |
| Switzerland | UK | USA | |

Information about Intel AMT

Your computer might support Intel® Active Management Technology (AMT) depending on the model you purchased.

Using built-in platform capabilities and popular third-party management and security applications, Intel AMT allows IT to better discover, heal, and protect their networked computing assets.

Consult with your system administrator about configurations of the AMT function before connecting to a network.

Disable the AMT function

Intel AMT function is enabled by default, and in a situation where no system administrator presents, it is strongly recommended that you turn off the AMT function before connecting to a network.

If the AMT function is NOT turned off, there is a danger that the management of AMT function will be abused by other parties which possibly lead to the leak of sensitive and/or proprietary information, data loss, HDD/SSD erasure, or file overwritten.

First, you must do the following in the BIOS setup utility:

1. Turn on the computer while pressing the **F2** key.

2. On the BIOS setup utility screen, change AMT Setup Prompt to **Enabled**.
3. Press the **F10** key, and press **Y** key to save the settings.

When the computer restarts, the message “Press < Ctrl - P > to enter Intel(R) ME Setup” appears. Press **CTRL + P** to enter the MEBx Setup.

To disable the AMT function, do the following:

1. Select **MEBx Login**, and enter the default password “admin” in the password field.
2. Enter a new password. Password must comply with the following requirements concerning character types and length:

Must be between 8 and 32 characters long.

Must contain at least one number (“0”, “1-9”).

Must contain a mix of lower-case (“a”, “b”, “z”, etc.) and upper-case (“A”, “B”, “Z”, etc.) letter.

Must contain at least one special character of the following: ` ~ ! @ \$ % ^ & * () - = + [] ; ' < . > / ?

Underscore (“_”) is considered the same as Roman alphabet characters, and is not counted as a special character.



Key input is based on the US keyboard layout. The following table shows examples of the special characters in US keyboard layout.

| Special character you want to input | Corresponding number key (SHIFT key + a number key) |
|-------------------------------------|---|
| ! | 1 |
| @ | 2 |
| # | 3 |
| \$ | 4 |
| % | 5 |
| ^ | 6 |
| & | 7 |
| * | 8 |
| (| 9 |
|) | 0 |

3. Select **Intel(R) AMT Configuration**, and press the **Enter** key.
4. Select **Manageability Features Selection**, and press the **Enter** key.
5. Select **Disabled**, and press the **Enter** key.
6. Press the **Y** key, and press the **ESC** key.

7. Select **MEBx Exit**, and press **Y** key.
8. When the computer restarts, go to BIOS setup utility.
On the BIOS setup utility screen, change **AMT Setup Prompt** to **Disabled**.
9. Press the **F10** key to save the settings, and press the **Y** key.



- *When using the computer with the AC adaptor connected and the AMT function set to enabled, power might still be supplied to the system memory even when the computer power is turned off, or the computer is in Sleep Mode or Hibernation Mode.*
- *When connecting the AC adaptor, the computer is powered and can be turned on. If the power is automatically turned off after approximately 5 to 7 seconds, it is because the RTC lasting time runs out, and the settings of AMT function have been cleared. This is normal and not an error. If it occurs, the settings of AMT function must be reconfigured.*
- *If there is a problem when you start the computer, or initialize the Management Engine (ME) firmware after the RTC lasting time runs out, the system will automatically reset itself during setup. This is the function of AMT configurations and is not an error.*
- *Enabling the AMT function might cause the network LAN Enable/Disable items to be no longer changeable in BIOS setup utility. Consult with your system administrator about details.*
- *AMT function cannot be operated using a USB-LAN adaptor.*



The useable system memory for models equipped with the AMT function is 16 - 64 MB, less than that of models not equipped with the AMT function. The amount of the difference depends on the amount of memory installed.

Notes for system administrators

- Intel AMT is enabled by default in the Management Engine (ME) firmware.
- Both the security of management console and the network management must be thoroughly implemented through management of AMT function. Otherwise administrator privileges might be abused by other parties which possibly lead to the leak of sensitive and/or proprietary information, data loss, HDD/SSD erasure, or file overwritten.
- The following functions are not supported:
 - RPAT (Remote PC Assist Technology)
 - Remote BIOS update

Legal Footnotes

Non-applicable Icons

Certain computer chassis are designed to accommodate all possible configurations for an entire product series. Therefore, be aware that your selected model might not have all the features and specifications corresponding to all of the icons or switches shown on the computer chassis.

CPU

Central Processing Unit (CPU) Performance Legal Footnotes.

CPU performance in your computer product might vary from specifications under the following conditions:

- use of certain external peripheral products
- use of battery power instead of AC power
- use of certain multimedia, computer generated graphics or video applications
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of several applications or functionalities simultaneously
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 30°C (41 - 86°F) or >25°C (77°F) at high altitude (all temperature references are approximate and might vary depending on the specific computer model - contact TOSHIBA support for details).

CPU performance might also vary from specifications due to design configuration.

Under some conditions, your computer product might automatically shut down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. 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.

64-Bit Computing

Certain 32-bit device drivers and/or applications might not be compatible with a 64-bit CPU/operating system and therefore might not function properly.

Memory (Main System)

Part of the main system memory might be used by the graphics system for graphics performance and therefore reduce the amount of main system memory available for other computing activities. The amount of main system memory allocated to support graphics might vary depending on the graphics system, applications utilized, system memory size, and other factors.

If your computer is configured with more than 3 GB memory, the memory might be displayed as approximately 3 GB only (depending on the hardware specifications of the computer).

This is correct because the operating system usually displays the available memory instead of the physical memory (RAM) built into the computer.

Various system components (like the video adapter's GPU and PCI devices like Wireless LAN, and so on) require their own memory space. Since a 32-bit operating system cannot address more than 4 GB of memory, these system resources overlap the physical memory. It is a technical limitation that the overlapped memory is not available to the operating system. Even though some tools might display the actual physical memory built into your computer, the memory available to the operating system is still approximately 3 GB only.

Computers configured with a 64-bit operating system can address 4 GB or more of system memory.

Battery Life

Battery life might vary considerably depending on product model, configuration, applications, power management settings, and features utilized, as well as the natural performance variations produced by the design of individual components. 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.

After going through many charge and discharge cycles, the battery loses its ability to perform at maximum capacity and needs to be replaced. This is a normal phenomenon for all batteries. To purchase a new battery pack, see the accessories information that is shipped with your computer.

Internal Storage Drive Capacity

1 Gigabyte (GB) means $10^9 = 1,000,000,000$ bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of $1 \text{ GB} = 2^{30} = 1,073,741,824$ bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the product includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity might vary.

LCD

Over a period of time, and depending on the usage of the computer, the brightness of the LCD screen will deteriorate. This is an intrinsic characteristic of LCD technology.

Maximum brightness is only available when operating in AC power mode. Screen dims when the computer is operated on battery power and you might not be able to increase the brightness of the screen.

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.

Total Available Graphics Memory is the total of, as applicable, Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory varies depending on system memory size and other factors.

Wireless LAN

The transmission speed over the wireless LAN and the distance over which wireless LAN can reach might vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations.

The actual transmission speed is lower than the theoretical maximum speed.

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Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

- freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

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