

**TOSHIBA**  
Leading Innovation >>>

# User's Manual

**Z20t-C**

**WT20-C**

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# Table of Contents

<i>Chapter 1</i>	<b>TOSHIBA Legal, Regulatory, and Safety</b>	
	Copyright, Disclaimer and Trademarks .....	1-1
	Regulatory Information .....	1-2
	Video Standard Notice .....	1-8
	ENERGY STAR® Program .....	1-9
	Disposing of the computer and the computer's battery .....	1-9
	General Precautions .....	1-9
	Safety Icons .....	1-12
<i>Chapter 2</i>	<b>Getting Started</b>	
	Equipment checklist .....	2-1
	TOSHIBA Keyboard Dock .....	2-1
	Operating mode .....	2-2
	Conventions .....	2-3
	Using your computer for the first time .....	2-4
	Getting to know Windows .....	2-13
	Turning off the power .....	2-15
	System Recovery .....	2-19
<i>Chapter 3</i>	<b>The Grand Tour</b>	
	Tablet computer .....	3-1
	TOSHIBA Keyboard Dock .....	3-7
	Internal Hardware Components .....	3-12
	Power Condition Descriptions .....	3-14
<i>Chapter 4</i>	<b>Operating Basics</b>	
	Operating in tablet mode (also for WT20-C) .....	4-1
	Using the Touch Screen .....	4-3
	Using the Touch Pad .....	4-5
	TOSHIBA Pointing Device .....	4-5
	The Keyboard .....	4-11
	Battery .....	4-15
	Wireless WAN device .....	4-19
	GPS Function .....	4-21
	LAN .....	4-21
	Memory media .....	4-23
	External Display .....	4-25
	Security lock .....	4-30

Optional TOSHIBA Accessories .....	4-31
Sound System and Video mode .....	4-31

*Chapter 5*

**Utilities and Advanced Usage**

Utilities and Applications .....	5-1
Special features .....	5-4
TOSHIBA Password Utility .....	5-6
TOSHIBA System Settings .....	5-9
USB Charge .....	5-10
TOSHIBA Tablet Access Code Logon Utility .....	5-12
TOSHIBA PC Health Monitor .....	5-13
TOSHIBA Setup Utility .....	5-14

*Chapter 6*

**Troubleshooting**

Problem-solving process .....	6-1
Hardware and system checklist .....	6-4
TOSHIBA support .....	6-15

*Chapter 7*

**Appendix**

Specifications .....	7-1
AC Power Cord and Connectors .....	7-2
Information for Wireless Devices .....	7-4
Information about Intel AMT .....	7-14
Legal Footnotes .....	7-17
VCCI Class B Information (Japan Only) .....	7-19
OpenSSL Toolkit License Issues .....	7-19
FreeType License Issues .....	7-22

**Index**

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# Chapter 1

## TOSHIBA Legal, Regulatory, and Safety

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

### Copyright, Disclaimer and Trademarks

#### Copyright

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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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Windows, Microsoft, and Windows logo are registered trademarks of Microsoft Corporation.

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DTS, the Symbol, & DTS and the Symbol together are registered trademarks and DTS Studio Sound is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.

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. Please check the ID information on the back of the device or box 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 might 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 USB Type-C (USB3.1 Gen1) port, HDMI Micro port, as well as the external RGB monitor port, Universal Serial Bus (USB 3.0) ports and HDMI port on the TOSHIBA Keyboard Dock. 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.

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## ***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,

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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 classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

### **Following information is only valid for EU-member States:**

#### ***Information requirements Regulation EC 1275/2008***

Additional information as required by Regulation (EC) 1275/2008 amended by Regulation (EU) 801/2013 implementing European Eco-Design Directive with regard to requirements for standby, off mode and networked standby electric power consumption of electrical and electronic household and office equipment can be found here:

<http://www.toshiba.eu/Eco-Design>



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## **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](http://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**



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](http://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](http://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 wheelie bin symbol means that this product should not be collected and disposed 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.

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## 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)

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## 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](http://www.energystar.gov/sleepinstructions)

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

[www.energystar.gov/powermanagement](http://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

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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.

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## 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.
  - Disconnect all peripherals before moving the computer (TOSHIBA Keyboard Dock, however, can remain connected).
  - Close the computer when the tablet computer is docked.
  - Do not pick up the computer by its display panel when using in laptop or presentation mode.
  - 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.*



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# 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
- TOSHIBA Keyboard Dock (provided with some models)
- Stylus Pen (provided with some models)
- Reserve Pen (in the pen slot and provided with some models)
- AC adaptor and power cord (2-pin plug or 3-pin plug)
- Cleaning cloth (provided with some models)



*Stylus Pen is included together with spare pen tips and a tip removal tool in the small case coming with the product.*

### Documentation

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

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

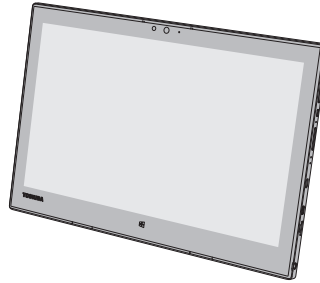
## TOSHIBA Keyboard Dock

Depending on the model you purchased, your device might be provided with a TOSHIBA Keyboard Dock (hereafter referred to as “keyboard dock”).

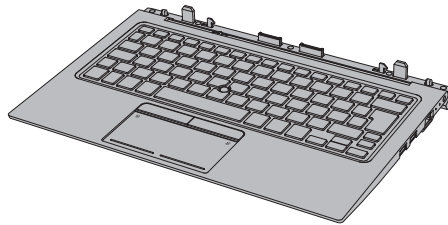
Your device contains a main unit and an accessory unit. The tablet computer, as the main unit, allows you to handle tasks that frequently

require touch interactions while providing the portability; the keyboard dock, as the accessory unit to the tablet computer, is designed to enhance the tablet computer with a standard keyboard, a second battery pack (only for the keyboard dock equipped with a battery pack) and a port replicator. The keyboard dock also gives you versatile experiences including a notebook computer.

*Figure 2-1 The main unit: tablet computer*



*Figure 2-2 The accessory unit: TOSHIBA Keyboard Dock*



Product appearance depends on the model you purchased.



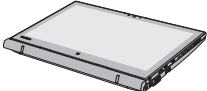
For availability of TOSHIBA Keyboard Dock, refer to the following table:

<b>Model Name</b>	<b>TOSHIBA Keyboard Dock</b>
Z20t-C	provided
WT20-C	not provided, tablet computer only

## Operating mode

After docking your tablet computer to TOSHIBA Keyboard Dock, your device can be used as a single unit to best serve your purpose.

Operating modes supported are defined in the following table:

Mode Name	Illustration	Definition
Laptop mode		Suitable for tasks that frequently require the keyboard, such as typing.
Presentation mode		Suitable for tasks that rarely require touch interactions, such as a presentation and a slide show.
Tablet mode		Suitable for tasks that require both touch interactions and mobility, such as reading.

For how to dock your tablet computer and start using, refer to [Docking the tablet computer](#) section for more information.





*Your device is called “computer” when referred to as a single unit, or where descriptions are not specifically for one of the operating modes in this manual.*

## Conventions

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

<b>Click</b>	<ul style="list-style-type: none"> <li>■ Tap the Touch Pad or click the left Touch Pad control button/AccuPoint control button once (for Z20t-C).</li> <li>■ Left-click the mouse once.</li> <li>■ Tap the touch screen once.</li> </ul>
<b>Right-click</b>	<ul style="list-style-type: none"> <li>■ Tap the Touch Pad with two fingers together or click the right Touch Pad control button/AccuPoint control button once (for Z20t-C).</li> <li>■ Right-click the mouse once.</li> <li>■ Press and hold the touch screen.</li> </ul>

<b>Double-click</b>	<ul style="list-style-type: none"> <li>■ Tap the Touch Pad or click the left Touch Pad control button/AccuPoint control button twice (for Z20t-C).</li> <li>■ Left-click the mouse twice.</li> <li>■ Tap the touch screen twice.</li> </ul>
<b>Start</b>	The word "Start" refers to the "  " button in the lower-left corner of the screen.
<b>All apps</b>	<p>You can find a list of all your apps and programs in the <b>All apps</b>.</p> <p>To access it, click <b>Start</b> and select <b>All apps</b> (  ) in the lower-left corner.</p>

## 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 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:

- Docking the tablet computer (only for Z20t-C)
- Undocking the tablet computer (only for Z20t-C)
- Connecting the AC adaptor
- Turning on the power
- Initial setup



- *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 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 or other storage media. Failure to do so might result in data loss.*

### Docking the tablet computer (only for Z20t-C)

Refer to the following recommended steps to dock your tablet computer.



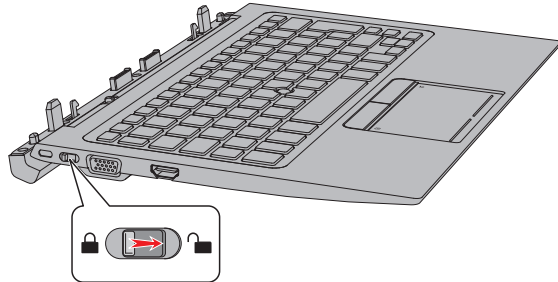
*Do not undock the tablet computer immediately after docking operation. Wait at least 5 seconds.*

### **Converting to laptop mode**

To use the computer in laptop mode, do the following:

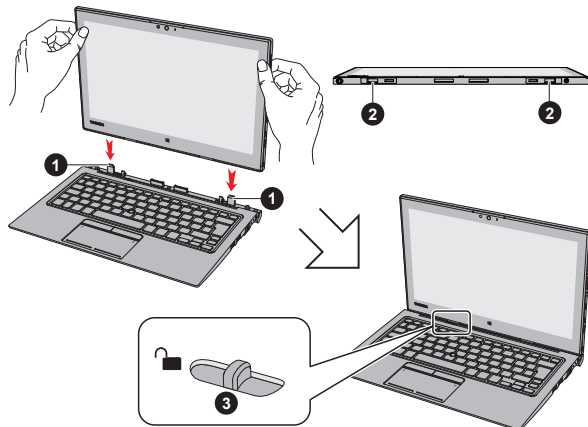
1. Check the security lock switch on the left side of the keyboard dock, and slide it to the unlocked position.

*Figure 2-3 Slide the security lock switch*



2. Hold both sides of the tablet computer, and align the guide pins on the keyboard dock with the guide pin grooves on the bottom of the tablet computer.
3. Gently press down the tablet computer until it clicks into place. The hooks on the keyboard dock engage the tablet computer, and the release latch goes back to the lock position.

*Figure 2-4 Docking the tablet computer*



1. Guide pins
2. Guide pin grooves

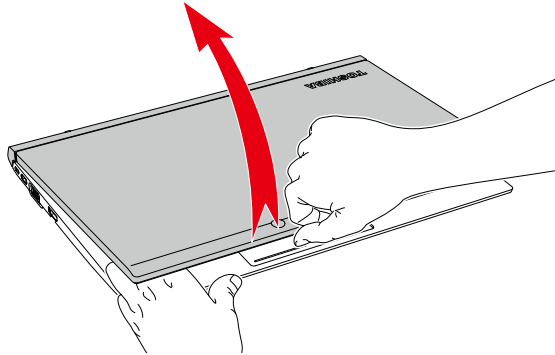
3. Release latch

You are now ready to use the tablet computer as a notebook computer.

---

The computer can be opened to a wide range of angles for optimal viewing. To do this, hold down the palm rest with one hand so that the body of the keyboard dock is not raised, and slowly lift the tablet computer with the other hand holding the center position of the display screen (as shown in the following figure).

*Figure 2-5 Opening the computer*

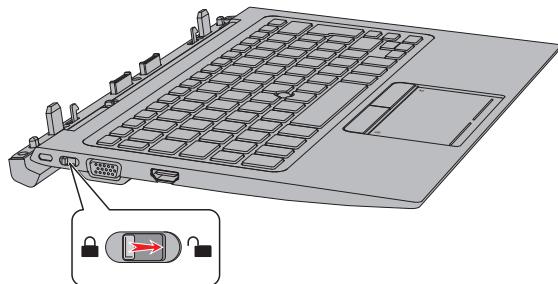


### ***Converting to presentation/tablet mode***

To use the computer in presentation or tablet mode, do the following:

1. Check the security lock switch on left side of the keyboard dock, and slide it to the unlocked position.

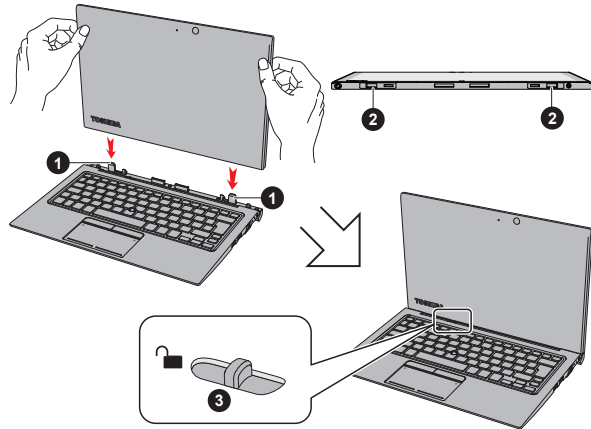
*Figure 2-6 Slide the security lock switch*



2. Turn the tablet computer around to let its backside face you. Hold both sides of the tablet computer, and align the guide pins on the keyboard dock with the guide pin grooves on the bottom of the tablet computer.

3. Gently press down the tablet computer until it clicks into place. The hooks on the keyboard dock engage the tablet computer, and the release latch goes back to the lock position

*Figure 2-7 Docking the tablet computer backward*



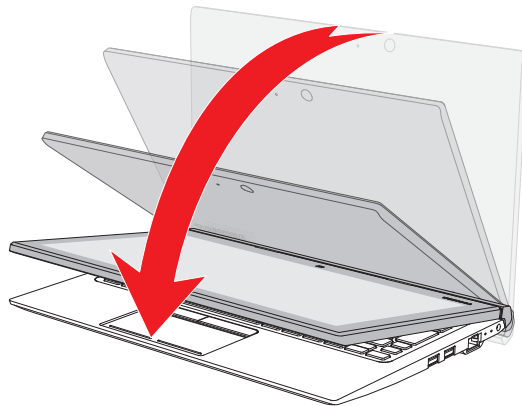
1. Guide pins

2. Guide pin grooves

3. Release latch

4. Slowly fold the tablet computer down to an optimal viewing angle for presentation mode or fold down flat for tablet mode.

*Figure 2-8 Folding the tablet computer*

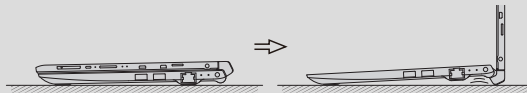


### **Notes on use**

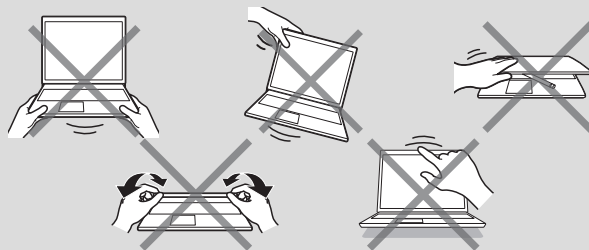


- Open and close the computer with reasonable care. Opening it vigorously or slamming it shut might cause damage.

- *Be careful not to open the computer too wide as it might put stress on the hinges and cause damage.*
- *Make sure that the security lock switch is in locked position when you move or carry the computer.*
- *Never remove the tablet computer without unlocking by the release latch, otherwise it might cause damage.*
- *Do not slide the release latch without the tablet computer docked.*
- *Be careful not to hurt your fingers when docking the tablet computer to the keyboard dock.*
- *The rear of the keyboard dock is designed as a fulcrum, and moves slightly upwards when the computer is opened. Do not use the computer on soft surfaces or on rough surfaces where the base is vulnerable to scratches.*



- *Do not lift the computer by the palm rest on the keyboard dock. Failure to do so might cause damage to the computer or result in minor injury.*
- *Do not pick up the computer by its display panel when using in laptop or presentation mode.*
- *Do not close the computer with pens or any other objects left in between the tablet computer and the keyboard dock.*
- *Never turn the hinges without the tablet computer docked, otherwise it might cause damage or possibly result in mechanical malfunction.*
- *Do not press or push with excess force on the display screen, otherwise the computer might become unsteady and possibly fall over.*






## Undocking the tablet computer (only for Z20t-C)



- Do not undock the tablet computer if the remaining power of **Battery** (refers to the battery pack inside the tablet computer) is 10% or less. To check the remaining battery power, click the battery icon on the Windows taskbar.
- Do not dock the tablet computer immediately after undocking operation. Wait at least 5 seconds.

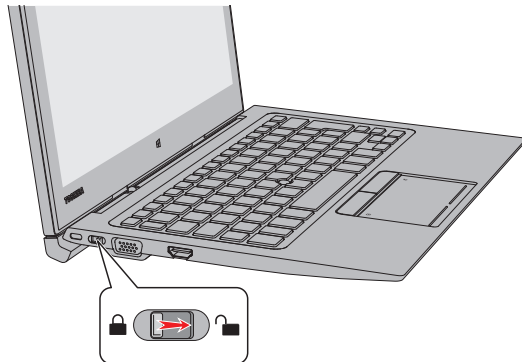
To undock the tablet computer from the keyboard dock, do the following:

1. Disconnect and remove all peripheral devices and cables.

If the computer power is on, to ensure a safe removal, press **FN + E** to cut off all data communications with the keyboard dock. The docking indicator (  ) on the right side of the keyboard dock goes off.

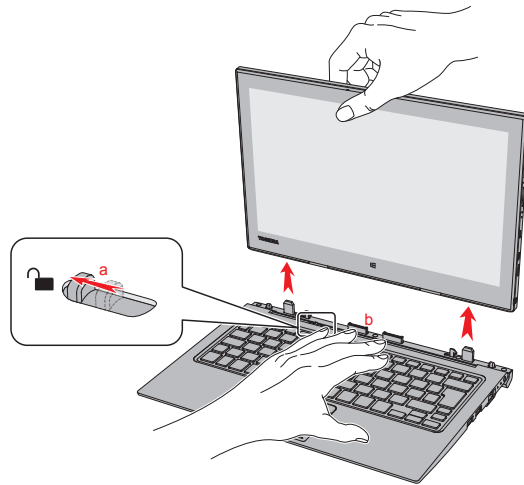
2. Turn the tablet computer to an upright position.
3. Check the security lock switch on the left side of the keyboard dock, and slide it to the unlocked position.

*Figure 2-9 Slide the security lock switch*



- Slide the release latch to the unlocked position (a), and slowly lift the tablet computer to remove it while holding down the keyboard dock (b).

Figure 2-10 Undocking the tablet computer



## 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.



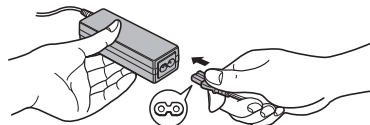
- *Always use the TOSHIBA AC adaptor that was included with your computer, or use AC adaptors specified by TOSHIBA to avoid any risk of fire or other damage to the computer. Use of an incompatible AC adaptor might cause fire or damage to the computer possibly resulting in serious injury. TOSHIBA assumes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

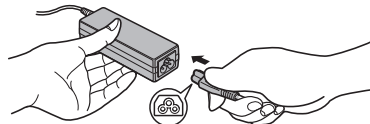
*Refer to the enclosed Instruction Manual for Safety and Comfort for detailed precautions and handling instructions.*

1. Connect the power cord to the AC adaptor.

*Figure 2-11 Connecting the power cord to the AC adaptor (2-pin plug)*



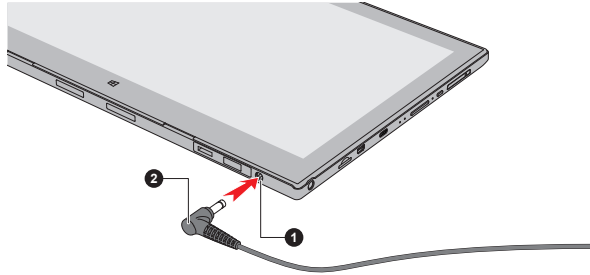
*Figure 2-12 Connecting the power cord to the AC adaptor (3-pin plug)*



*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.

*Figure 2-13 Connecting the DC output plug to the tablet computer*



*Figure 2-14 Connecting the DC output plug to the keyboard dock*



1. DC IN 19V jack

2. DC output plug

3. Plug the power cord into a live wall outlet. The **Battery/Second Battery** indicator glows.

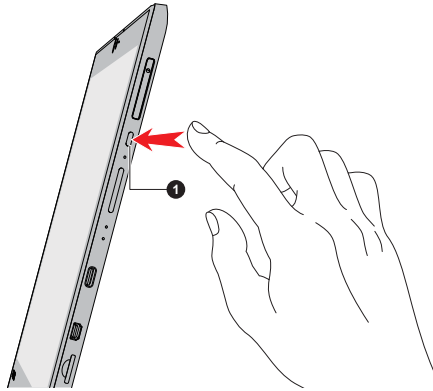
When you connect the AC adaptor to the DC IN 19V jack on the keyboard dock, the second battery pack inside the keyboard dock also begins charging. It might take longer to fully charge the second battery pack depending on the remaining system power.

You can charge only the second battery pack without docking the tablet computer.

## Turning on the power

Press the **Power** button to turn on the power, and the **Power** indicator indicates the status. Refer to the [Power Condition Descriptions](#) section for more information.

Figure 2-15 Turning on the power



1. Power button



- 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.

## 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 and license agreement carefully.



## Getting to know Windows

For detailed information on what is new and how to operate Windows, refer to **Get Started** in the Start menu.

### Start menu

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

You can access the Start menu from an app or the desktop in the following ways:

- Click the **Start** button (  ) in the lower-left corner of the screen.
- Press the Windows® logo key (  ) on your keyboard.

---


**Most used** allows quick access to your frequently used apps, and your recently installed apps are highlighted under **Recently added**.


You can pin your favorite apps to the Start menu as tiles in grid-like pattern, and also group them. Typical tiles are the **People** tile and the **Mail** tile for instance. Tiles show you dynamic information from apps without having to open them.

## Windows taskbar

By default, the bottom of the desktop is Windows taskbar. You can see all of your currently running apps on the Windows taskbar.

## Task view

Task view (  ) is launched from Windows taskbar at the bottom of the screen. Task view allows you to view the apps that are currently running. Also, you can create custom desktops so that running apps can be grouped for entertainment, productivity, or what you just want.


To do this, click the **Task view** icon , and then click **New desktop**. Open the apps you want to use on that desktop. To switch between desktops, click **Task view** again.

## Search

**Search** on the Windows taskbar allows you to find apps, files, settings, and more on the computer. When Internet connection is available, it also shows you the best search result from the Internet.

The personal assistant called **Cortana** might be available depending on your country/region. You can ask questions or talk to Cortana in natural voice, and Cortana answers your questions using information from the Internet. To use Cortana, an internal or external microphone is required. Press **FN + S** key to activate Cortana.


## Action center

You can review important notifications from apps or Windows in action center, and take action without having to open apps. It also provides quick action buttons to access to most-used settings instantly. Select the action center icon  on the Windows taskbar to view your notifications and quick actions.

## Settings

**Settings** provides system settings including advanced settings in the Control Panel. They are divided in categories so that you can configure, optimize, or personalize Windows.

You can also type in the keyword, and use **Search** to find any setting.

To open Settings, click **Start -> All apps -> Settings** (  ).

---

You can pin it to the Start menu as a tile by right-clicking on **Settings** and selecting **Pin to Start**.

## Windows Store

Although many apps are pre-installed in your computer, you can also download many others from the Windows Store.

You can search for and browse thousands of apps, all grouped into easy-to-find categories there.

## Sign-in options

Windows offers a number of sign-in options including **Password** (🔑), **PIN** (1234) 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.

## Tablet mode

Tablet mode enables touch-optimized working environment without keyboard and mouse.

After switching to tablet mode, Start menu and apps are running in full screen, giving you more space to work in. To use two apps side-by-side, drag an app to one side. You will see any open apps that can snap next to it. To close an app, drag it to the bottom of the screen.

## 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 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 **Start -> Power** 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 **Start -> 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** in **All apps**).*
- *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 **Start -> 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 white.*
- *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.

## Hibernation Mode

The Hibernation Mode feature saves the contents of memory to the internal storage 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. 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 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 **Start -> Power** 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 in All apps**.
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.

After you turn off the computer, and the content of memory has been saved to the internal storage, 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.*

## **System Recovery**

There is a hidden partition allocated on the internal storage 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



*If you choose TOSHIBA Maintenance Utility to erase the internal storage, all data including the operating system and recovery partition will be deleted. In that case, you cannot create recovery media or restore the pre-installed software from the recovery partition. Make sure that you have already created recovery media before you start TOSHIBA Maintenance Utility. This recovery media can be used to restore your system after you have erased your internal storage.*

## **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 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, 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 as normal.
3. Insert the first blank disc into the external optical disc drive tray, or insert the USB Flash Memory into one available USB port.
4. Click **Recovery Media Creator** under **TOSHIBA** group in **All apps**.
5. Follow the on-screen instructions to finish creating the Recovery Media.



Make sure that you create recovery media by using **Recovery Media Creator** instead of the recovery drive creating option in Windows system. Otherwise, **Recovery Media Creator** will not work and **TOSHIBA HDD Recovery** option in TOSHIBA Maintenance Utility will not exist if you restore the computer from the recovery media you created by options in Windows system.

## 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:



- Make sure that the AC adaptor is connected during the restoring process.
- Make sure to dock the tablet computer to TOSHIBA Keyboard Dock before restoring the operating system (only for Z20t-C).
- Do not close the display panel during the restoring process (only for Z20t-C).



- When you reinstall the Windows operating system, the internal storage 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. Launch the TOSHIBA Setup Utility.

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

2. In the TOSHIBA Setup Utility screen, select **Advanced -> System Configuration -> Boot Mode**.

**Note:** Please skip the following contents if you cannot find the Boot Mode option in your system.

3. Select **UEFI Boot** (Default).

If you set the Boot Mode except for **UEFI 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 external Optical Disc Drive or insert the recovery USB Flash Memory into one available USB port.
2. Click **Start -> Power** and then select **Restart**.

3. Hold down the **F12** key and then release this key one second after the computer is power on.  
Without the keyboard dock, you can hold down the **Volume up** button until the Boot menu is loaded 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.  
Without the keyboard dock, you can use the **Volume up** and the **Volume down** button to select the appropriate option from the menu, and tap the **Windows** button to confirm the selection.
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 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 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, you might find that it becomes impossible to set up your computer.



- *Make sure that the AC adaptor is connected during the restoring process.*
- *Make sure to dock the tablet computer to TOSHIBA Keyboard Dock before restoring the operating system (only for Z20t-C).*
- *Do not close the display panel during the restoring process (only for Z20t-C).*



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

1. Click **Start -> Power** and then select **Restart**.
2. Hold down **0** (zero) key, and release this key one second after the computer is power on.

Without the keyboard dock, you can hold down the **Volume up** button until the Boot menu is loaded after the computer is power on, and then select **HDD Recovery**.

Choose **Yes** if you want to continue.

3. Select **Troubleshoot -> TOSHIBA Maintenance Utility -> TOSHIBA HDD Recovery**.
4. Follow the on-screen instructions to finish the recovery.

---

# 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.



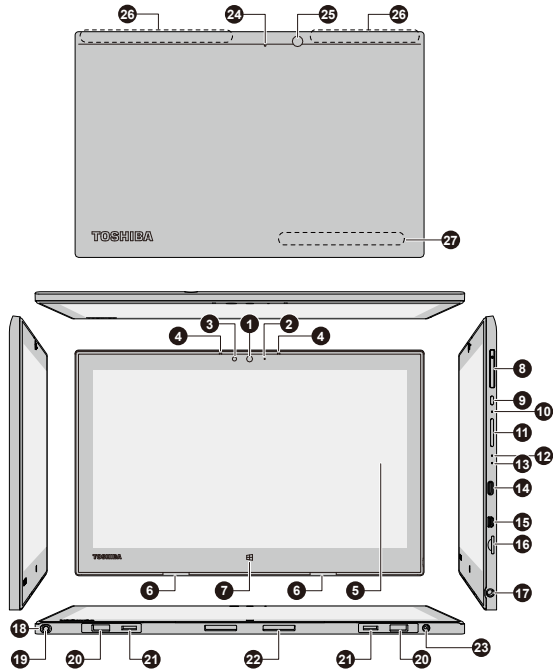
*Handle your computer carefully to avoid scratching or damaging the surface.*

## Tablet computer

The following figure shows essential components of the tablet computer.



Figure 3-1 Tablet computer



- |                                   |   |
|-----------------------------------|---|
| 1. Web Camera (front)             | 15. HDMI Micro port                             |
| 2. Web Camera LED (front)         | 16. Memory media slot                           |
| 3. Ambient light sensor           | 17. Headphone/Microphone combo jack             |
| 4. Microphones                    | 18. Reserve Pen slot*                           |
| 5. Display screen                 | 19. Reserve Pen*                                |
| 6. Stereo speakers                | 20. Guide pin grooves                           |
| 7. Windows button                 | 21. Hook grooves                                |
| 8. SIM card slot*                 | 22. Docking interface                           |
| 9. Power button                   | 23. DC IN 19V jack                              |
| 10. Force shutdown hole           | 24. Web Camera LED (back)                       |
| 11. Volume up/down button         | 25. Web Camera (back)                           |
| 12. Power indicator               | 26. Wireless communication antennas (not shown) |
| 13. Battery indicator             | 27. ID information                              |
| 14. USB Type-C (USB3.1 Gen1) port |   |

\* Provided with some models.

Product appearance depends on the model you purchased.

### Web Camera (front)

**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.



- *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.*

---

**Web Camera LED (front)**

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

---

**Ambient light sensor**

Ambient light sensor can detect the light intensity outside, and the computer uses such information to automatically adjust the brightness of the display screen.



*Do not cover the ambient light sensor, otherwise it might not work properly.*

---

**Microphones**

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

---

**Display screen**

31.7 cm (12.5") LCD screen, configured with the following resolution:

- 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.

---

**Stereo speakers**

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



---

**Windows button**

Tap to open the Start menu.

---



### 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.



### Power button

Press this button to turn the computer's power on or off.

### Force Shut down hole

Insert a slender object, such as a needle into this hole to force a shutdown when the computer hangs.



### Volume up/down buttons

Press the button to increase or decrease the volume.



### Power indicator

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



### Battery indicator

The **Battery** indicator shows the charging condition of the battery pack inside the tablet computer. White indicates the battery pack 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.



### USB Type-C (USB3.1 Gen1) port

One USB Type-C port, which complies to the USB 3.1 Gen1 standard, is provided on the right side of the tablet computer.

This USB Type-C (USB3.1 Gen1) port supports USB 2.0 with theoretical maximum transmission rate at 480Mbps and USB 3.1 Gen1 (DC5V, 900mA) with theoretical maximum transmission rate at 5Gbps. This port supports only the USB data transmission.

The port with the icon (⚡) has Sleep and Charge function.



■ *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 Type-C (USB3.1 Gen1) port, click the **Safely Remove Hardware and Eject Media** icon on the Windows taskbar, and then select the USB device that you want to remove.



- Be careful when you connect and use chunky USB devices, the tablet computer might be lifted. Any possible stress put on the body of the tablet computer might cause damage.
- Keep foreign metal objects, such as screws, staples, and paper clips, out of the USB Type-C (USB3.1 Gen1) port. Foreign metal objects can create a short circuit, which can cause damage and fire, possibly resulting in serious injury.



### HDMI Micro port

HDMI Micro port can connect to HDMI cable with Type D connector.

An HDMI cable sends video and audio signals. In addition to this, it can send and receive control signals.

Refer to the [HDMI port](#) section for more information.



*Be careful when you connect an HDMI cable, the tablet computer might be lifted. Any possible stress put on the body of the tablet computer might cause damage.*



### Memory media slot

This slot lets you insert a micro SD™/SDHC™/SDXC™ memory card. 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.*



### Headphone/ Microphone combo jack

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



*Be careful when you connect an external microphone or headphone, the tablet computer might be lifted. Any possible stress put on the body of the tablet computer might cause damage.*

<b>Reserve Pen slot</b>	The Reserve Pen slot provides storage for the Reserve Pen. Some models are equipped with a Reserve Pen slot.
<b>Reserve Pen</b>	A Reserve Pen is stored in the tablet computer and enables direct data entry through the display screen. Some models are provided with a Reserve Pen. Refer to the <a href="#">Stylus Pen and Reserve Pen</a> section for more information.



*Make sure that the Reserve Pen is fully inserted into the Reserve Pen slot before docking the tablet computer.*

<b>Guide pin grooves</b>	Designed to engage the guide pins on the keyboard dock.
<b>Hook grooves</b>	Designed to engage the hooks on the keyboard dock.
<b>Docking interface</b>	Designed to engage the docking connector on the keyboard dock.



<b>DC IN 19V jack</b>	The AC adaptor connects to this jack in order to power the computer and charge its internal battery pack. 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.  The tablet computer cannot be docked when the AC adaptor is connected.
-----------------------	---

<b>Web Camera LED (back)</b>	The Web Camera LED glows when the Web Camera is operating.
<b>Web Camera (back)</b>	Your computer is also equipped with a back Web Camera used for recording video or taking photographs.



- *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.*

---

**Wireless communication antennas**

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

- Wireless LAN/Bluetooth
- Wireless WAN/Wireless LAN/Bluetooth

---

**Legal Footnote (Wireless LAN)**

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

---

**ID information**

The regulatory information applicable to your computer can be identified here.

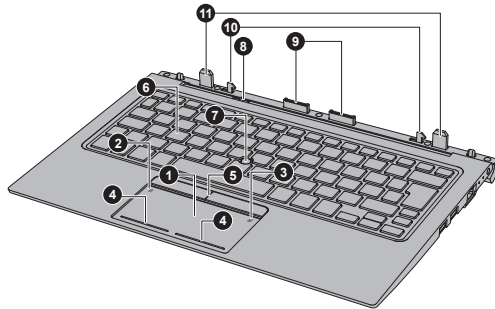
---

## TOSHIBA Keyboard Dock

### Front view

The following figure shows the front of the keyboard dock.

*Figure 3-2 Front view of the keyboard dock*



- |                              |                       |
|------------------------------|-----------------------|
| 1. Touch Pad                 | 7. AccuPoint          |
| 2. Touch Pad ON/OFF icon     | 8. Release latch      |
| 3. TOSHIBA eco icon          | 9. Docking connectors |
| 4. Touch Pad control buttons | 10. Hooks             |
| 5. AccuPoint control buttons | 11. Guide pins        |
| 6. Keyboard                  |                       |

Product appearance depends on the model you purchased.

---

**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 ON/OFF icon**

Double tap to enable/disable the Touch Pad.

---

**TOSHIBA eco icon**

Double tap to enable/disable TOSHIBA eco Utility.

---

**Touch Pad control buttons**

Touch Pad control buttons are used like the buttons on a standard mouse. Click the left button to select a menu item or to manipulate text or graphics designated by the pointer, and click the right button to display a menu or other function depending on the software you are using.

---

**AccuPoint control buttons**

AccuPoint control buttons allow you to select menu items or manipulate texts and graphics as designated by the on-screen pointer.

Refer to the [AccuPoint](#) section for more information.

---

**Keyboard**

Keyboard contains character keys, control keys, function keys, and special Windows keys.

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

---

**AccuPoint**

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

Refer to the [AccuPoint](#) section for more information.

---

**Hooks**

Hooks secure the physical connection between the tablet computer and the keyboard dock.

---

**Guide pins**

Guide pins make it easy for you to align the tablet computer with the keyboard dock. They also secure the physical connection between them.

---

**Docking connectors**

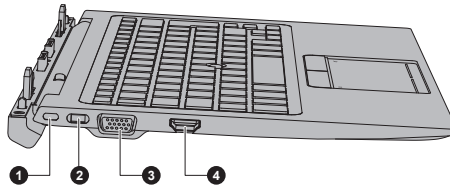
Docking connectors establish the data communications with the tablet computer.

---

## Left side

The following figure shows the left side of the keyboard dock.

Figure 3-3 The left side of the keyboard dock



- 1. Security lock slot
- 2. Security lock switch
- 3. External RGB monitor port
- 4. HDMI out port


Product appearance depends on the model you purchased.



#### 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.

#### Security lock switch

When this switch is in the locked position (  ), the release latch cannot be slid.



#### External RGB monitor port

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

This port allows you to connect an external RGB monitor to the computer.



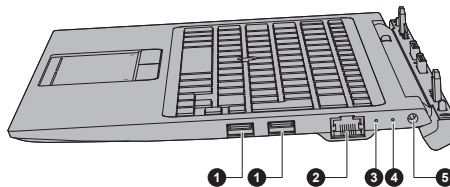
#### HDMI out port

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

## Right side

The following figure shows the right side of the keyboard dock.

Figure 3-4 The right side of the keyboard dock



- 1. Universal Serial Bus (USB 3.0) ports
- 2. LAN jack
- 3. Docking indicator
- 4. Second Battery indicator
- 5. DC IN 19V jack

Product appearance depends on the model you purchased.





### 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 keyboard dock.

The USB 3.0 ports are 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 allows you to connect to a LAN. The adaptor has built-in support for Ethernet LAN (10 megabits per second, 10BASE-T), or Fast Ethernet LAN (100 megabits per second, 100BASE-TX) and Gigabit Ethernet LAN (1000 megabits per second, 1000BASE-T). Refer to [LAN](#) section for more information.



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



### Docking indicator

The **Docking** indicator glows white when data communications between the keyboard dock and the tablet computer are successfully established and in good condition.



## Second Battery indicator

The **Second Battery** indicator shows the charging condition of the battery pack inside the keyboard dock. White indicates the battery pack is fully charged while the power is being correctly supplied from the AC power adaptor.

Some models are equipped with a second battery pack.

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



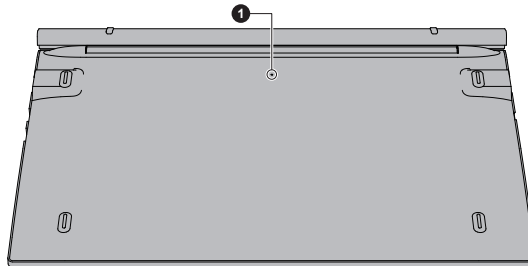
## DC IN 19V jack

The AC adaptor connects to this jack in order to power the computer and charge its internal battery. 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.

## Underside

The following figures show the underside of the keyboard dock.

*Figure 3-5 The underside of the keyboard dock*



### 1. Reset button

Product appearance depends on the model you purchased.

## Reset button

If your keyboard dock is equipped with a battery pack, and is not working correctly, such as when the keyboard or the Touch Pad does not respond to your command, do the following:

1. Turn off the power, and undock the tablet computer.
2. Insert a slender object, such as a needle into this hole to force reset the keyboard dock.
3. Dock the tablet computer, and turn on the power.

---

## 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

The tablet computer includes a battery pack inside. The keyboard dock might include a second battery pack inside depending on the model you purchased.

Do not attempt to dismount or replace the battery pack by yourself. Contact an authorized TOSHIBA service provider, if necessary.

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

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, click **Control Panel -> System and Security -> System** under **Windows System** group in **All apps**.

---

#### Legal Footnote (CPU)

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

---

### Internal storage

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

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

Note that part of the internal storage overall capacity is reserved as administration space.

---



Your computer is equipped with an SSD (Solid State Drive). In this manual, the word "internal storage" refers to SSD unless otherwise stated.



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 Capacity)

For more information regarding Internal Storage 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** in **All apps**.

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.

## 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** 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.

### Battery indicator

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

<b>Flashing amber</b>	The battery charge is low. The AC adaptor must be connected to recharge the battery pack.
<b>Amber</b>	Indicates that the AC adaptor is connected, and battery pack inside the tablet computer is charging.
<b>White</b>	Indicates that the AC adaptor is connected, and the battery pack inside the tablet computer is fully charged.
<b>Flashing White</b>	Indicates a problem with the computer. Disconnect the AC adaptor and remove the battery for several seconds. Then reinstall the battery and reconnect the AC adaptor. After that, press the power button. If it still does not operate properly, you should contact your reseller or dealer.
<b>No light</b>	Under any other conditions, the indicator does not light.

### Second Battery indicator

Check the **Second Battery** indicator to determine the status of the battery pack inside the keyboard dock and the power status with the AC adaptor connected. The following indicator conditions should be noted:



The **Second Battery** indicator does not function and remains off for the keyboard dock not equipped with a battery pack.

<b>Amber</b>	Indicates that the AC adaptor is connected, and the battery pack inside the keyboard dock is charging.
<b>White</b>	Indicates that the AC adaptor is connected, and the battery pack inside the keyboard dock is fully charged.
<b>No light</b>	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 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:

<b>White</b>	Indicates that power is being supplied to the computer, and the computer is turned on.
<b>Flashing white</b>	Indicates that the computer is in Sleep Mode and that there is sufficient power available (AC adaptor or battery) to maintain this condition.
<b>No light</b>	Under any other conditions, the indicator does not light.

---

# Chapter 4

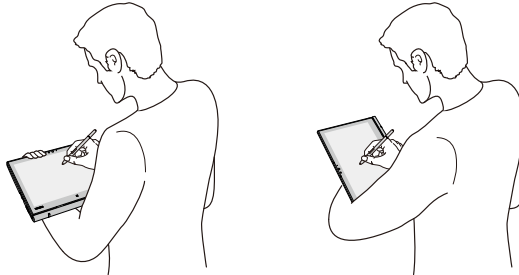
## Operating Basics

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

### Operating in tablet mode (also for WT20-C)

Observe the following instructions when you operate the computer in tablet mode.

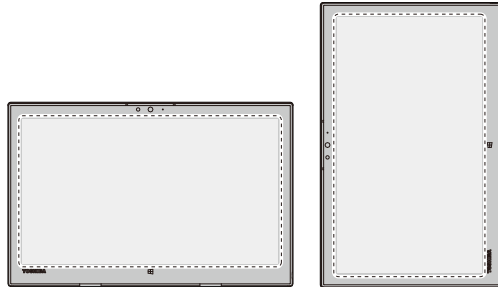
*Figure 4-1 Operating the computer in tablet mode*



- Remove all external peripheral devices and their connection cables from the computer before carrying.
- Hold the computer firmly on your forearm.
- Be careful not to accidentally touch the Windows button.
- Remove the AC adaptor from the computer when using it held in your forearm.
- Do not use the computer while walking or driving a car.
- Do not drop the computer or apply excessive impact to it. Do not leave the computer in a car or similar environment where it is exposed to direct sunlight.

- The display screen of some models is a touch sensitive, digitizer screen, and works with a stylus pen. However, the outer edges of the screen might be less sensitive. Keep the Stylus Pen or the Reserve Pen inside the display area when you use it near the edges of the display screen. The position of the pen might not be recognized if you move the pen too fast towards the outer edge. Make sure to slide the pen slowly in areas near the edges of the screen. Use the pen in the areas enclosed by the dotted line as shown in the following figure.

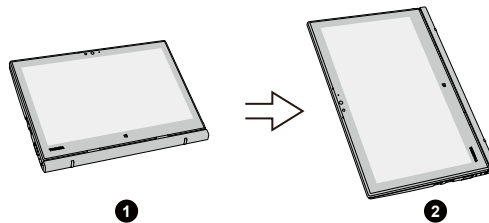
*Figure 4-2 Use area of the pen*



## Changing the screen orientation

When operating the computer in tablet mode, you can change the screen orientation by rotating the computer sideways. The screen orientation automatically changes according to the rotation angle detected.


*Figure 4-3 Rotating the computer sideways*



1. Landscape mode

2. Portrait mode

To manually disable the automatic screen orientation, do the following:

1. Click the action center icon  on the Windows taskbar.
2. Click **Rotation lock** that the automatic screen orientation is currently disabled.

When operating the computer in laptop/presentation mode, however, the automatic screen orientation is locked, and stays in **landscape mode**.





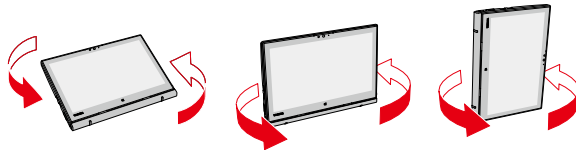
- *Avoid having direct contact with the other edges of the hand held device while the wireless device is turned on and transmitting. Only factories installed wireless transmitter can be used with this hand held device to satisfy RF exposure compliance.*
- *Some drivers/utilities might not perform install and uninstall operation when the screen orientation is changed to portrait mode. If it occurs, switch to landscape mode to proceed.*

## Calibrating digital compass

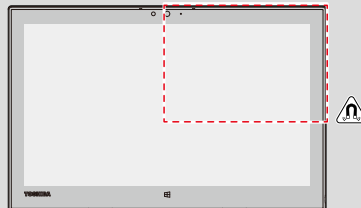
If you have downloaded a compass application to use this feature, note that the performance of any compass feature varies depending on environmental conditions. For example, any source using electromagnetic or radio waves.

Before using any compass feature the compass needs to be calibrated for accuracy. To calibrate, disconnect the AC adaptor and remove all peripherals/cables, and then horizontally/vertically rotate the computer with the power on several times as shown in the illustration below. Please note this is the most effective method of calibrating this computer.

*Figure 4-4 Calibrating digital compass*



*Do not place any products utilizing magnetic materials in close proximity to the area marked in the following figure.*



## Using the Touch Screen

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



### 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: views all your open apps in task view.

Swipe from the right edge: opens the Action center.

Swipe from the top edge: views title bars for full-screened apps.

For details and more advanced touch screen gestures to interact with Windows operating system, refer to the **Get Started**.



- *Do not press or push with excess force on the touch screen.*
- *Do not apply excess force when cleaning the touch screen.*
- *Never touch the screen with a sharp object such as a ball-point pen which might scratch or damage the surface.*
- *Do not use a protecting sheet for the touch screen as it might decrease its sensitivity to gestures.*
- *Do not touch the screen with gloves, wet hands, or the tip of your fingernails as it might decrease the sensitivity.*

- *The touch screen might not work correctly if part of the surface is slightly wet, or covered with an object.*

## 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.



*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.*

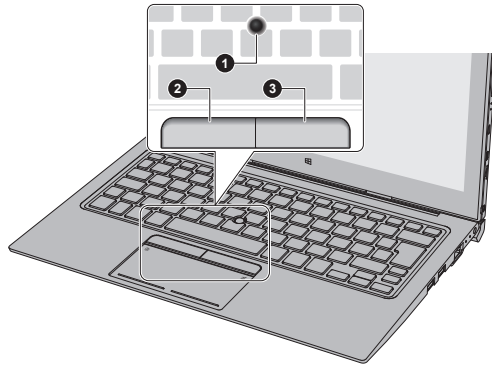
## TOSHIBA Pointing Device

### AccuPoint

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

The control buttons below the AccuPoint 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.

Figure 4-5 AccuPoint



1. AccuPoint

2. AccuPoint left control button

3. AccuPoint right control button

### ***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.

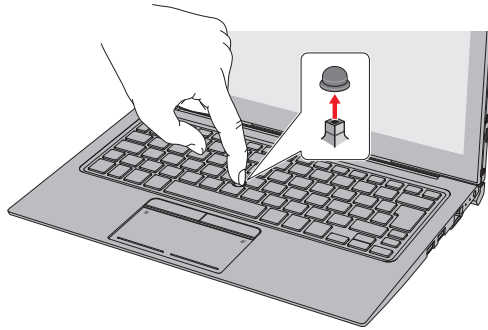
If an error message appears, reboot the computer. If an error message does not appear, wait a moment for the pointer to stop, then continue operation.

### ***Replacing the cap***

The AccuPoint cap is an expendable item that should be replaced after prolonged use.

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

Figure 4-6 Removing the AccuPoint cap



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.

## Stylus Pen and Reserve Pen

You can use the pen to execute actions and enter data. Hold the pen in a natural position and tap, press or trace on the screen lightly.

Figure 4-7 Stylus Pen

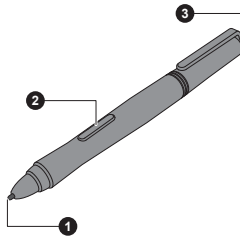
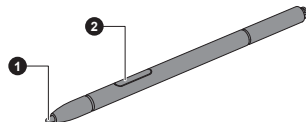


Figure 4-8 Reserve Pen



1. Pen point
2. Pen button

3. Eraser

---

### Pen point

Provides the same function as left clicking the mouse once.

---

---

**Pen button**

Press and hold this button and touch the tip of the pen on an object. Immediately lift it to display a pop-up menu or execute a specific action. It functions as right clicking the mouse once.

---

**Eraser**

The virtual eraser allows you to delete notes or sketches in applications that support eraser function.

---

To change the pen settings, click **Control Panel -> Hardware and Sound -> Wacom Pen** under **Windows System** in **All apps**.



*Observe the following precautions on the handling of the Stylus Pen and the Reserve Pen.*

- *Do not apply excess force when cleaning the touch screen.*
- *To avoid damages to the display screen, refrain from doing anything other than the specified operation methods. Failure to do so might cause a malfunction or characteristic deterioration.*
- *Do not tap or press the pen forcefully against the display as this might damage the pen and the screen itself.*
- *Avoid using or keeping the pen in areas where the temperature changes rapidly or in places, such as a car, where the pen is exposed to direct sunlight. Store the pen without any pressure being applied to the buttons. Failure to do so might cause a malfunction or characteristic deterioration.*
- *The pen is composed of precision parts. Do not drop the pen. Strong impact causes a malfunction or characteristic deterioration. Do not apply excessive force to the pen point and the side buttons. Excessive force applied to these parts causes short life or characteristic deterioration.*
- *Avoid water entering the pen or condensation forming within it as either condition will cause a malfunction.*
- *Do not disassemble the pen. It causes maladjustment or short life.*
- *Do not stain the pen with cosmetics or chemicals as this will cause a deterioration in appearance. Use a glass wiping cloth or dry cloth to clean the pen. Do not use volatile liquids such as alcohol, thinner or petroleum benzine to clean the pen.*
- *Do not apply excessive force to the pen point as a bent or deformed pen point causes a malfunction.*
- *Keep the small parts of the pen, such as the pen point or the knob of the side buttons, away from infants and small children to prevent the accidental ingestion by them.*
- *Do not use a ball point pen instead of the pen included with the product.*

- *The pen tip of the Reserve Pen cannot be replaced if it is worn. You can purchase a new one from a TOSHIBA authorized dealer.*

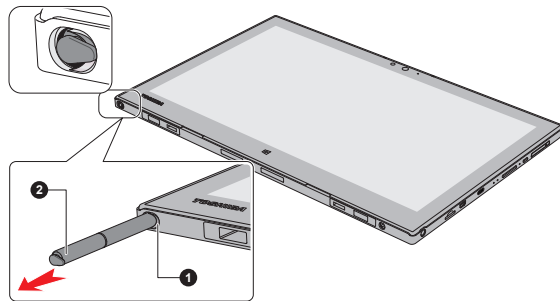


- *Wipe the display screen with the provided cloth before you use the stylus pen.*
- *Clean the fingerprints or smudges with the provided cloth if the sensitivity to pen writing decreases.*
- *Do not use a protecting sheet for the touch screen as it might impact the pen writing optimized for the touch screen.*
- *It is recommended that you keep another pen set as a spare. You can buy replacement pen sets from your TOSHIBA authorized dealer.*
- *TOSHIBA is not liable for any problems arising on the products due to the use of the pen in an environment where the above conditions are not satisfied or because of its use by unspecified number of users.*

### ***Removing the Reserve Pen***

To remove the Reserve Pen, slowly pull the Reserve Pen to remove it from the Reserve Pen slot.

*Figure 4-9 Removing the Reserve Pen*



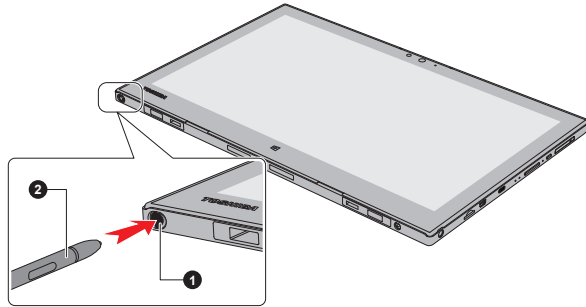
1. Reserve Pen slot

2. Reserve Pen

### ***Inserting the Reserve Pen***

To insert the Reserve Pen, slowly push the Reserve Pen into the Reserve Pen slot until it clicks into place.

Figure 4-10 Inserting the Reserve Pen



1. Reserve Pen slot

2. Reserve Pen



*Make sure that the Reserve Pen is fully inserted into the Reserve Pen slot before docking the tablet computer.*

### ***Pen actions***

You can use the Stylus Pen or the Reserve Pen to enter data, start programs, move objects and execute other actions.

#### ***Single tap***

Lightly tap the tip of the pen on an object and lift it immediately to execute an action. A single tap is similar to left clicking the mouse once.

#### ***Double tap***

Lightly tap the tip of the pen twice on an object and lift it immediately to execute an action. A double-tap is similar to left clicking the mouse twice.

#### ***Press and hold***

Tap the tip of the pen on the screen and hold until a white circle appears. Lift the pen to open a pop-up menu or execute a specific action. Press and hold is similar to right clicking the mouse.

#### ***Drag***

Touch the pen on the screen. Without lifting the pen, drag it across the screen to select text or objects.

#### ***Drag and drop***

Touch the pen on the screen to select an object. Without lifting the pen, drag it across the screen. Lift the pen to drop the object to a new location.

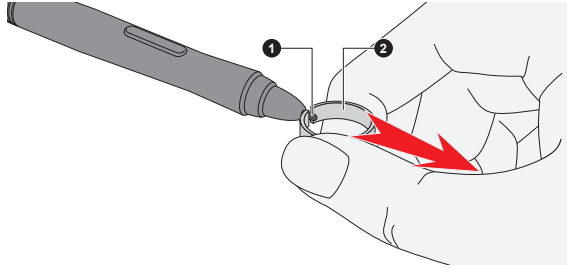


## Replacing the pen tip

The pen tip of the Stylus Pen can be replaced with a new one which is provided when it is worn. To replace the pen tip, do the following:

1. Pinch the tip with a draw-out tool and pull it out.
2. Insert a new pen tip into the Stylus Pen carefully, and press it securely.

Figure 4-11 Replacing the pen tip



1. Pen tip

2. Draw-out tool



*Do not continue to use a broken pen tip as this might result in scratching of the display panel. When the pen tip breaks replace it with one of the refills delivered with the Stylus Pen. When these refills have run out, you can purchase a new pen set from a TOSHIBA authorized dealer.*



- *A short and worn pen point is difficult to pull out. Replace the pen point with a refill before it becomes too short to remove.*
- *It is recommended that you keep another pen set as a spare. You can buy replacement pen sets from your TOSHIBA authorized dealer.*

## The Keyboard

The number of keys available on the keyboard dock 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.



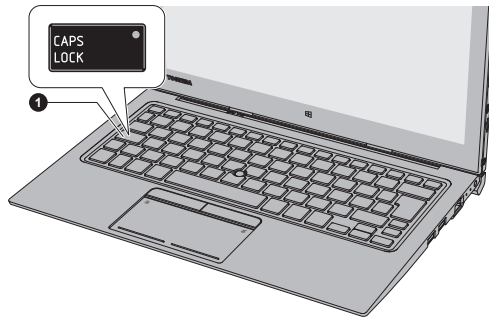
*Never remove the key caps on your keyboard. Failure to do so might damage the parts under the key caps.*

### Keyboard indicator

The following figure shows the position of the **CAPS LOCK** indicator which shows the following condition:

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

*Figure 4-12 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.



The following specific functions are executed when the function keys are pressed in combination with the **FN** key.

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.

Key Combination	Function
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 + Space	Changes the display resolution.
FN + S	Allows you to search your computer, the web, or within an app, or activates Cortana (dependent on country).
FN + E (  )	Cuts off all data communications with the keyboard dock.
FN + Z (  )	<p>Toggles the mode of the keyboard backlight between <b>Timer</b>, <b>On</b>, and <b>Off</b>.</p> <p>To set up the brightness, click <b>System Settings</b> under <b>TOSHIBA</b> group in <b>All apps</b>. Click <b>Keyboard</b> tab, and select a level under <b>Keyboard Backlight Brightness Control</b>.</p> <p>To set up the timer, launch the BIOS setup utility, select <b>Power Management -&gt; Keyboard Backlight Control Mode</b>, and select <b>TIMER</b>. Adjust the timer under <b>Backlight Lighting Time</b>.</p>



*Some functions show the toast notification at the edges of the screen. Those toast notifications are enabled by default. You can disable them in the Function Key settings.*

*To access it, click **System Settings -> Function Key** under **TOSHIBA** group in **All apps**.*

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## Windows special keys

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



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



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

## Keypad overlay

The keyboard dock does not have a separate numeric keypad but includes a numeric keypad overlay which functions similarly. This is located in the center of the keyboard with the relevant keys having grey letters at their front edge. The overlay provides the same functions as the numeric keypad on a standard 104/105-key enhanced keyboard.

### *Turning on the overlays*

The numeric keypad overlay can be used for numeric data input or cursor and page control.

#### *Arrow Mode*

Press **FN + F10** to turn on Arrow Mode. You are able to access cursor and page control functions by using the keys. Press **FN + F10** again to turn off this overlay function.

#### *Numeric Mode*

Press **FN + F11** to turn on Numeric Mode. You are able to access numeric characters by using the keys. Press **FN + F11** again to turn off this overlay function.

### *Temporarily using normal keyboard (overlay on)*

While using the overlay, you can temporarily access the normal keyboard functions without having to turn the overlay off:

1. Hold down **FN** key and press any other key. This key will operate as if the overlay were off.
2. Type upper-case characters by holding down **FN + SHIFT** and pressing a character key.
3. Release **FN** key to continue using the selected overlay function.

### *Temporarily using overlay (overlay off)*

While using the normal keyboard function, you can temporarily use the keypad overlay without having to turn it on:

1. Hold down **FN** key and the keyboard will turn on the most recently used overlay function.
2. Release **FN** key to return to normal keyboard operation.

### ***Temporarily changing modes***

If the computer is in **Numeric Mode**, you can switch temporarily to **Arrow Mode** by pressing a **SHIFT** key, while if it is in **Arrow Mode**, you can switch temporarily to **Numeric Mode** by also pressing a **SHIFT** key.

## **Generating ASCII characters**


Not all ASCII characters can be generated using normal keyboard operation, but you are able to generate these characters using their specific ASCII codes.

1. Hold down **ALT** with the overlay on or **ALT + FN** with overlay off.
2. Using the overlay keys, type the ASCII code of the character you require.
3. Release **ALT** or **ALT + FN**. The ASCII character appears on the display screen.

## **Touch keyboard**

Touch keyboard is an on-screen virtual keyboard allowing you to type on the touch screen.

To use the touch keyboard, tap in an area where you can type. The keyboard opens automatically.

To manually open the touch keyboard, click the keyboard icon (  ) in the taskbar of your desktop.

## **Battery**

This section explains battery use, recharging methods and handling.

### **Battery pack**

The tablet computer contains a battery pack inside. Also, depending on the model you purchased, the keyboard dock might contain a second battery pack to extend the battery operating time.

When the AC adaptor is not connected, the main power source of the computer is the lithium polymer battery pack.

### ***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.

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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.



*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 battery pack

When the power in the battery pack becomes low, the **Battery** indicator flashes amber to indicate that only a few minutes of battery power remain. If you continue to use the computer while the **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 the battery pack, connect the AC adaptor to the DC IN 19V jack and plug the other end into a working outlet. The **Battery** and/or **Second Battery** indicator glows amber while the battery pack is being charged.

When you connect the AC adaptor to the DC IN 19V jack on the keyboard dock, the second battery pack inside the keyboard dock also begins charging. It might take longer to fully charge the second battery pack depending on the remaining system power.

You can charge only the second battery pack without docking the tablet computer.

### Charging Time

The following table shows the approximate time required to fully charge an exhausted battery pack.

Battery pack type	Power off	Power on
Battery pack (36 Wh, 3 cell)	about 3 hours	about 3 - 10 hours

Battery pack type	Power off	Power on
With the second battery pack (36 Wh, 3 cell)	about 3.5 hours	about 3.5 - 10 hours



*Be aware that the charging time when the computer is on is affected by ambient temperature, the temperature of the computer and how you are using the computer. If you make heavy use of external devices for example, the battery might scarcely charge at all during operation.*

### **Charging notice**

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

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

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

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

In such cases, do the following:

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

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

## **Monitoring battery pack capacity**

Remaining battery power can be monitored using the following methods.

- Clicking the battery icon on the Windows taskbar
- Via the **Battery Status** (average remaining battery power of **Battery #1** and **Battery #2**) in the **Windows Mobility Center** window

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When you use the tablet computer with the keyboard dock, the second battery pack is the first source to provide power.



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

## Maximizing battery operating time

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

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

## Battery pack exhausted time

When you turn off the power of your computer with the battery pack fully charged, the battery pack exhaust within the following approximate period.

Battery pack type	Sleep Mode	Shut Down Mode
Battery pack (36 Wh, 3 cell)	about 5 days	about 40 days



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Battery pack type	Sleep Mode	Shut Down Mode
With the second battery pack (36 Wh, 3 cell)	about 10 days	about 85 days

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## Extending battery life

To maximize the life of your battery pack, 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 **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 and to a wall outlet that is supplying power. The **Battery** and/or **Second Battery** indicator glows amber to indicate that the battery pack is being charged. However, if **Battery** and/or **Second 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 **Battery** and/or **Second Battery** indicator glows white.

## Wireless WAN device

Some models are equipped with the Wireless WAN device. This device enables 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:

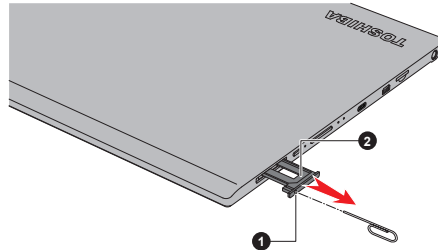
1. Click **Start -> Power**, and then select **Shut down** and ensure that the **Power** indicator is off
2. Remove the AC adaptor and all cables and peripherals connected to the computer.
3. Locate the SIM card slot.

- To pop the SIM card tray partially open, insert a slender object (about 10mm), 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.*

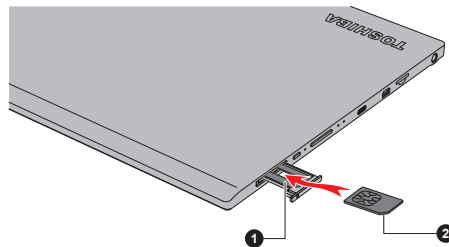
*Figure 4-14 Open the SIM card tray*



1. Slender object (Diameter 0.8mm)    2. SIM card tray

- Place the SIM card into the SIM card tray with the metal connectors facing up.
- 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 4-15 Inserting the SIM card*



1. SIM card tray

2. SIM card



- 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 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:

- 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), 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

TOSHIBA Keyboard Dock 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

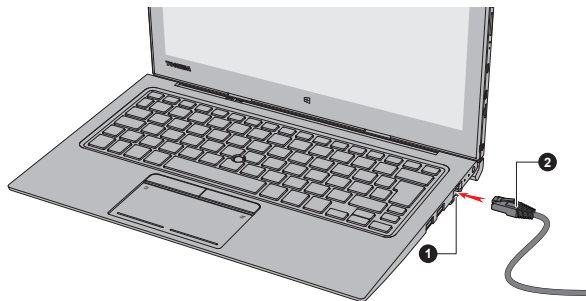
To connect the LAN cable, do the following:



- *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 4-16 Connecting the LAN cable*



1. LAN jack

2. LAN cable

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.*



- *This Memory media slot supports the following memory media: microSD/SDHC/SDXC 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 4-17 Examples of memory media (microSD card)*



## Points to note about the memory media card

microSD/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 supported maximum capacity of memory card is 128GB.

## 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.
- 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.*

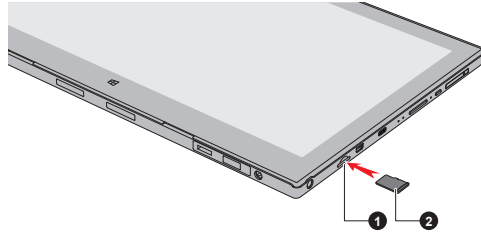
## Inserting memory media

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 the tablet computer.

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

Figure 4-18 Inserting memory media



1. Memory media slot

2. Memory media



- Make sure that the memory media is oriented properly before you insert it. If you insert the media in wrong direction, you might not be able to remove it.
- 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.

## 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.

## Connecting an external display

Your computer comes with a built-in display, but you can also connect other external displays via available ports on the computer.



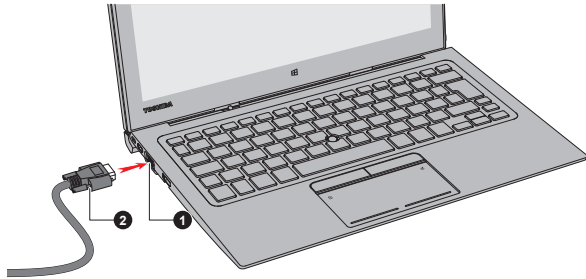
- *As the port operation of all external display devices have not been confirmed, some devices might not function properly.*
- *HDMI port and External RGB monitor port on the keyboard dock can not be connected for use at the same time. If both ports are connected, only HDMI port is activated.*

### External RGB monitor port

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

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

*Figure 4-19 Connecting the RGB cable to the External RGB monitor port*



1. External RGB monitor port

2. RGB cable



*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.

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, please 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.



## HDMI 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 port.

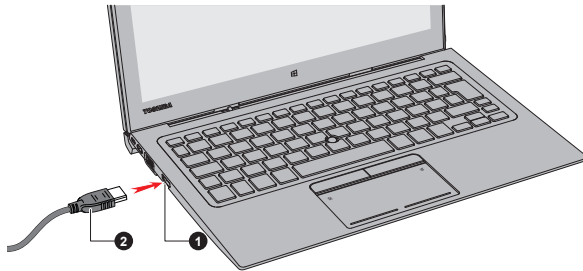
To connect an HDMI-compatible display device, do the following:



- *As the port operation of all HDMI display devices have not been confirmed, some HDMI display devices might not function properly.*
- *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 port on your tablet computer or on the keyboard dock.
3. Turn the HDMI display device's power on.

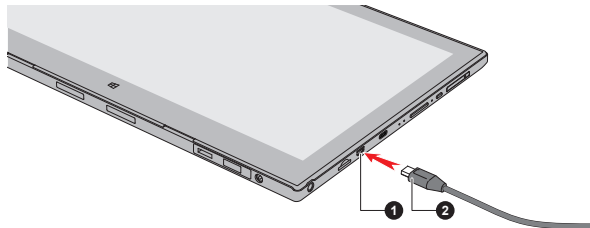
Figure 4-20 Connecting the HDMI port



1. HDMI port

2. HDMI cable (Type A connector)

Figure 4-21 Connecting the HDMI Micro port



1. HDMI Micro port

2. HDMI cable (Type D connector)



*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.*

*When you change the display output device, the playback device might not switch automatically. In this case, To set the playback device to the same device as the display output device, adjust the playback device manually by the following steps:*

1. Click **Control Panel -> Hardware and Sound -> Sound** under **Windows System** in **All apps**.
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.

### **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** in **All apps**.
2. Select one of the modes at **List All Modes**.

## **Multi Monitor (only for Z20t-C)**

Your computer supports the Multi Monitor function that can display image on Multi Monitor independently.

The following combinations are supported:

TOSHIBA Keyboard Dock		1	2
	RGB	Yes	-
	HDMI	-	Yes



Yes: Support

## Wireless display

Your computer might support Wireless display, a wireless technology which utilizes Wi-Fi to allow the computer to be wirelessly connected to external displays including TVs as extended screens. With Wireless display, documents, streamed/local media contents or other online contents can be shared wirelessly with others.

To use Wireless display, either one of the following devices is required:

- A compatible external display with built-in support for Wireless display.
- An external display with HDMI port and a Wireless display adaptor.

The Wireless display adaptor is a device that connects to the external display via HDMI port and can receive Wi-Fi signals from your computer.

To wirelessly connect to an external display, you can follow the steps as described below:


1. Go to **Settings** and click **Devices -> Connected devices**.
2. Click **Add a device**. Your computer will start searching for the Wireless display device.
3. After the Wireless display device is searched, follow the on-screen instructions to finish connection.

After the connection is established, the name of the Wireless display device appears under **Projectors**.

To disconnect the Wireless display device, click the Wireless display device name and then click **Remove device**.

## Changing the display 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.

---

# Security lock

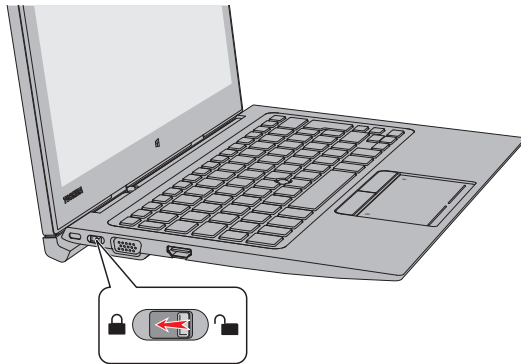
A security lock enables you to anchor your computer to a desk or other heavy object in order to help prevent unauthorized removal or theft. The computer has a security lock slot on the keyboard dock into which you can attach one end of the security cable, while the other end attaches to a desk or similar 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:

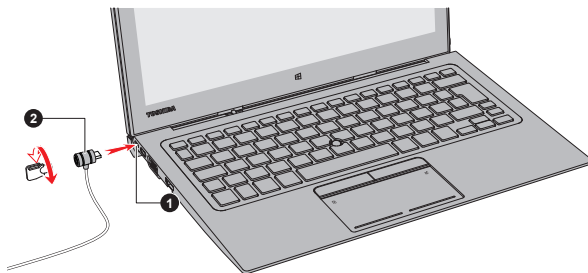
1. Turn the computer so its left side faces you.
2. Slide the security lock switch to the locked position.

*Figure 4-22 Slide the security lock switch*



3. Align the security cable with the lock slot and secure it in place.

*Figure 4-23 Security lock*



1. Security lock slot

2. Security lock

---

## 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:

<b>Universal AC Adaptor</b>	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.
<b>Stylus Pen</b>	Stylus Pen can be purchased from your TOSHIBA dealer for use as spare items (spare pen tips and a tip draw-out tool are included).



*Not all the accessories are available in your region. Contact your reseller or TOSHIBA dealer for more information.*

## Sound System and Video mode

This section describes some of the audio control functions.

### 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**.

## SmartAudio

Your computer contains SmartAudio, a powerful program that allows you to configure your audio software to enhance and personalize your listening experience.

### *Starting SmartAudio Application*

To launch the SmartAudio, click **Control Panel -> Hardware and Sound -> SmartAudio** under **Windows System** in **All apps**.

### *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. Click the **Jack Configuration** icon in the SmartAudio main screen.
3. Select one from the device list for the device you plugged into.

### *Opening SmartAudio Help*

Clicking "?" in the top right corner of the SmartAudio window will open the **Help** file in your selected language, or in English if your selected language is not supported.

## 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 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 **All apps**.

U.S. patents apply to this product. See <http://patents.dts.com> .

Manufactured under license from DTS Licensing Limited.

## 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** in **All apps**.



*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.*

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# 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.

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<b>TOSHIBA Password Utility</b>	<p>This utility allows you to set a password to restrict access to the computer.</p> <p>To access this utility, click <b>Password Utility</b> under <b>TOSHIBA</b> group in <b>All apps</b>.</p>
<b>TOSHIBA System Settings</b>	<p>This utility allows you to customize your hardware settings according to the way you work with the computer and the peripherals you use.</p> <p>To access this utility, click <b>System Settings</b> under <b>TOSHIBA</b> group in <b>All apps</b>.</p>
<b>TOSHIBA Setup Utility</b>	<p>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.</p> <p>For more information, refer to the <a href="#">TOSHIBA Setup Utility</a> section.</p>

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## 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 pack 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 battery pack might not be extended properly.

To access this utility, click **eco Utility** under **TOSHIBA** group in **All apps**.

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

---

## 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 **All apps**.

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**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 **All apps**.

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

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**Bluetooth® Link**

Bluetooth® Link allows you to use the keyboard and touchpad of your computer as a Bluetooth keyboard and mouse. Your computer can also be used to operate a Smartphone in hands free mode and speaker.

To access this utility, click **Bluetooth(R) Link** under **TOSHIBA** group in **All apps**.

For details on this utility, see the help file.

---

**TOSHIBA Tablet Access Code Logon Utility**

You can use the utility to perform user login authentication using a hand-written access code.

To access this utility, click **Tablet Access Code Logon Utility** under **TOSHIBA** group in **All apps**.

---

**TruCapture**

This software is a camera application with special features to take improved photographs of whiteboards, books, printed material, notebooks, and so on.

This application recognizes the target from the photograph and performs reflection reduction, color enhancement and cropping of the target, and then lets you save the changed photograph.

To access it, click **TruCapture** in **All apps**.

For more detailed information, see the Help of this utility.

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**TruNote**

This software is note taking application that can take and management handwritten notes.

To access it, click **TruNote** in **All apps**.

For more detailed information, see the Help of this utility.

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## TruRecorder

This software is a recording application that can check recorded data quickly and easily, analyze voices to automatically identify specific speakers, and allow you to mark important statements in the recording.

To access it, click **TruRecorder** in **All apps**.

For more detailed information, see the Help of this utility.

---

## TOSHIBA Maintenance Utility

TOSHIBA Maintenance Utility is provided to erase the internal storage. This utility allows you to delete all data and partitions, and also overwrite all sectors on the internal storage.

If there is an external hard disk drive connected to your computer, it can also be erased.

However, if you do not want to delete the data from the external hard disk drive, disconnect it from your computer.

To access this utility:

1. Go to **Settings** and click **Update & security -> Recovery**.
2. Click **Restart now** under **Advanced startup**.
3. Click **Troubleshoot -> TOSHIBA Maintenance Utility**.

If you select the deletion method and continue with the operation, you will lose all data (including the operating system and recovery partition) on the internal storage. Make sure that you have already created recovery media if you want to use the computer after erasing your internal storage.

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## Trusted Platform Module (TPM)

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

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.*

## Special features

The following features are either unique to TOSHIBA computers or are advanced features which make the computer more convenient to use.

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Access each function using the following procedures.

\*1 To access the Power Options, click **Control Panel -> System and Security -> Power Options** under **Windows System** in **All apps**.

---

<b>Display automatic power off</b> *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.
<b>SSD automatic power off</b> *1	This feature automatically cuts off power to the Solid State Drive when it is not accessed for a specified time, with power being restored when the Solid State Drive is next accessed. This can be specified in the Power Options.
<b>System automatic Sleep/Hibernation Mode</b> *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.
<b>Power on password</b>	Two levels of password security, supervisor and user, are available to prevent unauthorized access to your computer.
<b>Intelligent power supply</b> *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.
<b>Battery save mode</b> *1	This feature lets you configure the computer in order to save battery power. This can be specified in the Power Options.
<b>Panel power on/off</b> *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.
<b>Low battery automatic Hibernation Mode</b> *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.

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### **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 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.

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### **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 wake up the computer.

---

### **Heat dispersal \*1**

To protect against overheating, the processor is equipped with an internal temperature sensor which lowers the processing speed if the computer's internal temperature rises to a certain level.

When the processor's temperature falls within normal range, 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.

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## **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.*

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## User Password

To start the utility, click **Password Utility** under **TOSHIBA** group in **All apps**, and click **User Password**.

User authentication might be required to validate user rights when using TOSHIBA Password Utility to delete or change passwords, and so on.

- **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 the BIOS setup utility to set, change or delete the HDD Password or HDD Master Password.*

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



- *If you forget your HDD User Password, TOSHIBA will NOT be able to assist you, and your HDD will be rendered COMPLETELY and PERMANENTLY INOPERABLE. TOSHIBA will NOT be held responsible for any loss of any data, any loss of use or access to your HDD, or for any other losses to you or any other person or organization that result from the loss of access to your HDD. If you cannot accept this risk, do not register the HDD User Password.*
- *When saving the HDD 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 **All apps**, 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:

**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 **All apps**.

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.

<b>OK</b>	Accepts your changes and closes the TOSHIBA System Settings window.
<b>Cancel</b>	Closes the window without accepting your changes.
<b>Apply</b>	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
- **Function Key**—Allows you to configure the function key options
- **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 Type-C (USB3.1 Gen1) 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 Utilites** under **TOSHIBA** group in **All apps**.

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.

<b>Enabled</b>	Enables Sleep and Charge function under battery mode.
<b>Disabled</b>	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 **All apps**.

<b>Enabled</b>	Rapid USB battery charge at maximum 1.5A while PC is powered On.
<b>Disabled</b>	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 Tablet Access Code Logon Utility

You can use the Tablet Access Code Logon Utility to perform user login authentication using a hand-written access code.

Your access code is registered by using characters, symbols, speed of your signature, pen pressure, or directions in which you move the pen between characters or symbols.

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Always register your access code in accordance with the procedure that appears on the screen. You need to re-enter the same code several times to register your access code properly.



*Use multiple characters or symbols to create an access code that is not easily identified by a third party, to prevent illegal access to your device.*

## Disclaimer

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

TOSHIBA, ITS AFFILIATES AND SUPPLIERS SHALL HAVE NO RESPONSIBILITY FOR DAMAGE TO OR LOSS OF ANY BUSINESS, PROFITS, PROGRAMS, DATA, NETWORK SYSTEMS OR REMOVABLE STORAGE MEDIA ARISING OUT OF OR RESULTING FROM THE USE OF THE TABLET ACCESS CODE LOGON UTILITY, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

## 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 basic computer information (that is: product name, model number, part number, serial number, BIOS version, FW version), basic components information (that is: Video device, Sound device, Network device, HDD/SSD, Optical Disc drive), operating system information (that is: OS version, settings (power button action, lid close action, property of taskbar, file extension settings, user profile number), error information (BSoD, application error)), 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), HDD/SSD, sound volume, wireless communication functionalities and USB information), usage of TOSHIBA provided features/applications (that is: settings, operation, install state and launch times), 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 hard disk capacity, approximately 20 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.

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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 **All apps**.

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.*

## 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 BIOS setup utility, do the following:

1. Save your work.
2. Click **Start -> Power** and then select **Restart**.

3. Hold down the **F2** key and then release this key one second after the computer is power on.

Without the keyboard dock, you can hold down the **Volume down** button until TOSHIBA Setup Utility is loaded after the computer is power on.

The BIOS setup utility can also be launched by button combination.

1. Save your work.
2. Click **Start -> Power** and then select **Shut down**.
3. While holding down the **Volume down** button, press the **Power** button to turn on the power. Release the **Volume down** button after TOSHIBA Setup Utility is loaded.



*Make sure that fast startup is disabled in the Power Options by the following steps:*

1. Click **Control Panel -> System and Security -> Power Options** under **Windows System in All apps**.
2. Click **Choose what the power button does** or **Choose what closing the lid does**.
3. Click **Change settings that are currently unavailable**.
4. Deselect the **Turn on fast startup** check box from **Shutdown settings**.
5. Click the **Save changes** button.

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.

## Navigating the utility

TOSHIBA Setup Utility can be navigated through the touch screen or the provided Stylus Pen.

Some buttons on the tablet computer are also designated to execute the corresponding key function on the keyboard. Details are described as follows:

Button	Key	Function
Windows	Enter key	Proceed or confirm operation
Volume up	Up arrow key	Select the previous item
Volume down	Down arrow key	Select the next item

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# 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).

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- 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, internal storage, 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.

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### 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.

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## 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.
- Insert a slender object, such as a needle into the force shut down hole on the tablet computer.

### *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 **Battery** indicator. If the indicator is glowing, the computer is connected to a live external power source.

### ***The computer does not load advanced options during startup***

By holding down one of the following keys or buttons during startup, your computer can load the following advanced options.

<b>Advanced option</b>	<b>Key</b>	<b>Button</b>
BIOS utility	<b>F2</b>	<b>Volume down</b>
Boot Menu	<b>F12</b>	<b>Volume up</b>
Recovery options	<b>0 (zero)</b>	-

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



*Make sure that fast startup is disabled in the Power Options by the following steps:*

- 1. Click *Control Panel -> System and Security -> Power Options* under *Windows System in All apps*.**
- 2. Click *Choose what the power button does* or *Choose what closing the lid does*.**
- 3. Click *Change settings that are currently unavailable*.**
- 4. Deselect the *Turn on fast startup* check box from *Shutdown settings*.**
- 5. Click the *Save changes* button.**

1. Click **Start -> Power** 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
- Internal Storage
- 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>

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## Battery

If you suspect a problem with the battery, check the status of the **Battery** indicator or the **Second 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.
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 <b>Power saver</b> option under <b>Choose or customize a power plan</b> in the <b>Power Options</b> .

## 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"><li>1. Launch the TOSHIBA Setup Utility. Refer to the <a href="#">TOSHIBA Setup Utility</a> section for further information.</li><li>2. Set the date in the <b>System Date</b> field.</li><li>3. Set the time in the <b>System Time</b> field.</li><li>4. Press <b>F10</b> - a confirmation message is displayed.</li><li>5. Select <b>Yes</b> - the TOSHIBA Setup Utility will end and the computer will restart.</li></ol>

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## BIOS

Problem	Procedure
The computer cannot be powered on	<p>Disconnect the AC adaptor and remove the battery for several seconds. Then reinstall the battery and reconnect the AC adaptor. After that, press the power button.</p> <p>If it does not work, press the power button twice again.</p> <p>If it still does not work, press and hold the power button for 12 seconds.</p> <p>Real-Time Clock (RTC) information might be cleared if the power is turned on by pressing the power button. You should set the system date/time manually in TOSHIBA Setup Utility.</p> <p>If it still does not operate properly, you should contact your reseller or dealer.</p>

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## 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	<p>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).</p> <p>If you are still unable to use the keyboard, you should contact TOSHIBA Support.</p>

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## 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.

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Problem	Procedure
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.

## Internal Storage

Problem	Procedure
Computer does not boot from the internal storage	<p>Check to see whether there is a disc in the external optical disc drive - if so remove it and try to start the computer again.</p> <p>If this has no effect, check the <b>Boot Priority Options</b> setting within the TOSHIBA System Settings.</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 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 read a file	<p>Check to ensure that 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.

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## 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"><li>1. Click <b>Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> under <b>Windows System</b> in <b>All apps</b>.</li><li>2. In the <b>Advanced</b> tab, click <b>Advanced feature settings... -&gt; Device Select</b>.</li></ol>
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"><li>1. To access this utility, click <b>Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> under <b>Windows System</b> in <b>All apps</b>.</li><li>2. Within the Mouse Properties window, click the <b>Buttons</b> tab.</li><li>3. Set the double-click speed as required and click <b>OK</b>.</li></ol>
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>1. To access this utility, click <b>Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> under <b>Windows System</b> in <b>All apps</b>.</li><li>2. Within the Mouse Properties window, click the <b>Pointer Options</b> tab.</li><li>3. Set the pointer speed as required and click <b>OK</b>.</li></ol>
The reaction of Touch Pad is either too sensitive or not sensitive enough.	<p>Adjust the touch Sensitivity.</p> <p>To access it, click <b>Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> under <b>Windows System</b> in <b>All apps</b>.</p> <p>If you are still unable to resolve the problem, contact TOSHIBA Support.</p>

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## 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 to ensure that it is firmly attached.</p> <hr/>
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>1. To access this utility, click <b>Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> under <b>Windows System</b> in <b>All apps</b>.</li><li>2. Within the Mouse Properties window, click the <b>Buttons</b> tab.</li><li>3. Set the double-click speed as required and click <b>OK</b>.</li></ol> <hr/>
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>1. To access this utility, click <b>Control Panel -&gt; Hardware and Sound -&gt; Mouse</b> under <b>Windows System</b> in <b>All apps</b>.</li><li>2. Within the Mouse Properties window, click the <b>Pointer Options</b> tab.</li><li>3. Set the pointer speed as required and click <b>OK</b>.</li></ol> <hr/>
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> <hr/>

## 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 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
I cannot use the Sleep and Charge function.	<p>Sleep and Charge function might be disabled. Enable the <b>Sleep and Charge</b> 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"> <li>■ Turn OFF the computer while external devices are connected.</li> <li>■ Connect external devices after turning OFF of the computer.</li> </ul> <p>If this function cannot be still used, change the setting to disable the function and stop using this function.</p>
The battery depletes quickly even when I turned OFF the power of the computer.	<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>

Problem	Procedure
External devices connected to the compatible ports do not work when connected to a compatible port.	<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>
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 <a href="#">Sound System and Video mode</a> 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>

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## 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 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"> <li>1. Click <b>Control Panel -&gt; System and Security -&gt; Power Options</b> under <b>Windows System</b> in <b>All apps</b>.</li> <li>2. Click <b>Choose what the power button does</b> or <b>Choose what closing the lid does</b>.</li> <li>3. Click <b>Change settings that are currently unavailable</b>.</li> <li>4. Clear the <b>Turn on fast startup</b> check box.</li> <li>5. Click the <b>Save changes</b> button.</li> </ol> <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>

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## **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>

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# 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.

<b>Size</b>	<ul style="list-style-type: none"><li>■ Approximately 309.0 (w) x 215.2 (d) x 18.5/21.0 (h) millimeters (Z20t-C)</li><li>■ Approximately 309.0 (w) x 199.9 (d) x 8.8 (h) millimeters (WT20-C)</li></ul>
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(not including parts that extend beyond the main body).

#### Environmental Requirements

Conditions	Ambient temperature	Relative humidity
<b>Operating</b>	5°C to 35°C	20% to 80% (noncondensing)
<b>Non-operating</b>	-20°C to 60°C	10% to 90% (noncondensing)
<b>Wet-bulb temperature</b>	29°C maximum	

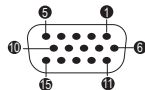
  

Conditions	Altitude (from sea level)
<b>Operating</b>	-60 to 3,000 meters
<b>Non-operating</b>	-60 to 10,000 meters maximum

#### Power Requirements

<b>AC adaptor</b>	100-240V AC 50 Hz or 60 Hz (cycles per second)
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## 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:

<b>Wire size:</b>	Minimum 0.75 mm <sup>2</sup>
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**Current rating:** Minimum 2.5 amperes

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## Certification agencies

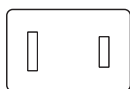
<b>China:</b>	CQC		
<b>U.S. and Canada:</b>	UL listed and CSA certified No. 18 AWG, Type SVT or SPT-2		
<b>Australia:</b>	AS		
<b>Japan:</b>	DENANHO		
<b>Europe:</b>			
<b>Austria:</b>	OVE	<b>Italy:</b>	IMQ
<b>Belgium:</b>	CEBEC	<b>The Netherlands:</b>	KEMA
<b>Denmark:</b>	DEMKO	<b>Norway:</b>	NEMKO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

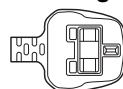
The following illustrations show the plug shapes for the U.S.A. and Canada, the United Kingdom, Australia, Europe, and China.

### USA



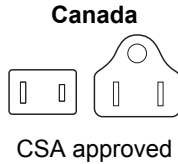
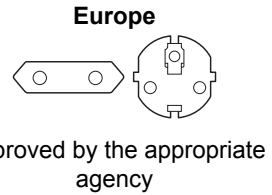
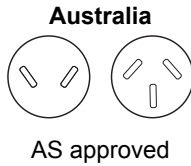
UL approved

### United Kingdom



BS 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*

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*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 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 may be restricted by the proprietor of the building or responsible representatives of the organization. These situations may 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 (e.g. 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**

<b>Compatibility</b>	■ IEEE 802.11 Standard for Wireless LANs
<b>Network Operating System</b>	■ Microsoft Windows Networking
<b>Media Access Protocol</b>	■ 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

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regulations might impose a number of limitations to the use of wireless communication equipment.

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<b>Radio Frequency</b>	■ Band 5 GHz (5150-5850 MHz) (Revision a and n)
	■ Band 2.4 GHz (2400-2483.5 MHz) (Revision b/g and n)

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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.

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## **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**

<b>France:</b>	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.
<b>Italy:</b>	-	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.
<b>Luxembourg:</b>	Implemented	General authorization required for network and service supply.
<b>Norway:</b>	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Alesund.
<b>Russian Federation:</b>	-	Only for indoor applications.

#### **Restrictions for Use of 5150-5350MHz Frequencies in Europe**

<b>Italy:</b>	-	For private use, a general authorization is required if WAS/ RLAN's are used outside own premises.
<b>Luxembourg:</b>	Implemented	General authorization required for network and service supply.

<b>Russian Federation:</b>	Limited	e.i.r.p 100mW. Permitted to use only for indoor applications, closed industrial and warehouse areas, and on board aircraft.  <ol style="list-style-type: none"> <li>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.</li> <li>2. Permitted to use for public wireless access local networks on board aircraft during a flight at the altitude not less than 3000m.</li> </ol>
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***Restrictions for Use of 5470-5725MHz Frequencies in Europe***

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<b>Italy:</b>	-	For private use, a general authorization is required if WAS/ RLAN's are used outside own premises.
<b>Luxembourg:</b>	Implemented	General authorization required for network and service supply
<b>Russian Federation:</b>	Limited	e.i.r.p 100mW. Permitted to use only for indoor applications, closed industrial and warehouse areas, and on board aircraft.  <ol style="list-style-type: none"> <li>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.</li> <li>2. Permitted to use for public wireless access local networks on board aircraft during a flight at the altitude not less than 3000m.</li> </ol>

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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

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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*

### ***Taiwan***

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<b>Article 12</b>	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.
<b>Article 14</b>	<p>The low power radio-frequency devices shall not influence aircraft security and interfere legal communications;</p> <p>If found, the user shall cease operating immediately until no interference is achieved.</p> <p>The said legal communications means radio communications is operated in compliance with the Telecommunications Act.</p> <p>The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.</p>

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### ***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***

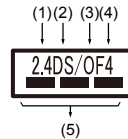
The frequency bandwidth of this equipment may operate within the same range as industrial devices, scientific devices, medical devices, microwave ovens, licensed radio stations and non-licensed specified low-power radio stations for mobile object identification systems (RFID) used in factory production 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

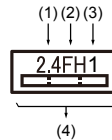
The indication shown below appears on this equipment.



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.



## 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 8260  
The Name of the radio equipment: 8260NGW  
DSP Research, Inc.  
Approval Number: D150069003
- Intel® Dual band Wireless-AC 3165  
The Name of the radio equipment: 3165NGW  
DSP Research, Inc.  
Approval Number: D150008003

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 October 2015

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

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Slovak Republic	Slovenia	Spain	Sweden
Switzerland	UK	USA	

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## 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 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.*
- *When using the AMT function, TOSHIBA Keyboard Dock is required.*
- *When using MEBx, TOSHIBA Keyboard Dock or an external USB keyboard is required.*
- *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 erasure, or file overwritten.
- The following functions are not supported:
  - RPAT (Remote PC Assist Technology)
  - Remote BIOS update

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# 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 shutdown. 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.

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## 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 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.

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## 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.

## Copy Protection

Applicable copy protection standards included in certain media may prevent or limit recording or viewing of the media.

## VCCI Class B Information (Japan Only)

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをしてください。

VCCI-B

## OpenSSL Toolkit License Issues

LICENSE ISSUES

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The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact [openssl-core@openssl.org](mailto:openssl-core@openssl.org).

## OpenSSL License

```
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/*=====
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- [freetype-devel@nongnu.org](mailto: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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# Index

## A

- AC adaptor
  - additional 4-31
  - connecting 2-10
  - DC IN 19V jack 3-6, 3-11

- ASCII characters 4-15

## B

- Battery
  - extending life 4-19
  - monitoring capacity 4-17
  - save mode 5-5

- Battery indicator 3-4, 3-14

- Bluetooth 7-7

## C

- Cleaning the computer 1-11

- Cooling vents 3-12

## D

- Display
  - automatic power off 5-5
  - screen 3-3

- Documentation list 2-1

- Dual Pointing Device
  - Touch Pad 6-9

## E

- Equipment checklist 2-1

- External monitor
  - problems 6-13

## G

- Graphics Processing Unit 3-13

## H

- HDMI Micro port 3-5

- HDMI out port 3-9

## K

- Keyboard
  - function keys 4-12
  - Function keys F1...F12 4-12
  - problems 6-7
  - Windows special keys 4-14

- Keypad overlay
  - Arrow mode 4-14
  - Numeric mode 4-14
  - temporarily using normal keyboard (overlay on) 4-14
  - temporarily using overlay (overlay off) 4-14
  - turning on the overlays 4-14

## L

- LAN

- 
- cable types 4-22
  - connecting 4-22
- ## M
- Media care
    - Card care 4-24
  - memory media card
    - inserting 4-24
    - removing 4-25
  - Memory media slot 4-23
  - Moving the computer 1-11
- ## P
- Password
    - power on 5-5
    - Starting the computer by password 5-8
    - Supervisor 5-8
    - user 5-7
  - Pointing Device
    - AccuPoint 3-8, 4-5
    - AccuPoint control buttons 4-6
    - Touch Pad 3-7
    - Pen 4-7
  - Power
    - conditions 3-14
    - Hibernation Mode 2-18
    - panel on/off 5-5
    - Shut Down mode 2-15
    - Sleep Mode 2-16
    - turning off 2-15
    - turning on 2-12
  - Problems
    - AC power 6-5
- Analyzing the problem 6-2
  - Battery 6-6
  - Dual Pointing device 6-8
  - External monitor 6-13
  - Hardware and system checklist 6-4
  - Internal display panel 6-7
  - Internal Storage 6-8
  - Keyboard 6-7
  - Memory Media Card 6-8
  - Overheating power down 6-5
  - Power 6-5
  - Real-Time Clock 6-6
  - Sound system 6-12
  - TOSHIBA support 6-15
  - Touch Pad 6-9
  - USB device 6-10
  - USB mouse 6-10
- ## R
- Recovery hard disk drive 2-22
  - Recovery Media 2-21
  - Restarting the computer 2-16
- ## S
- SD/SDHC/SDXC Card
    - formatting 4-23
    - note 4-23
  - Second Battery indicator 3-11, 3-14
  - Security lock 4-30
  - SIM Card
    - installing 4-19
    - removing 4-20
  - Sleep Mode
    - setting 2-16
    - System automatic 5-5



---

Sound system  
problems 6-12

SSD  
automatic power off 5-5

## T

Touch Screen 4-3

## U

USB device  
problems 6-10

## V

Video mode 4-33

Video RAM 3-13

## W

Web Camera (back) 3-6

Web Camera (front) 3-2

Wireless communication 7-5